



Bonfiglioli

Riduttori

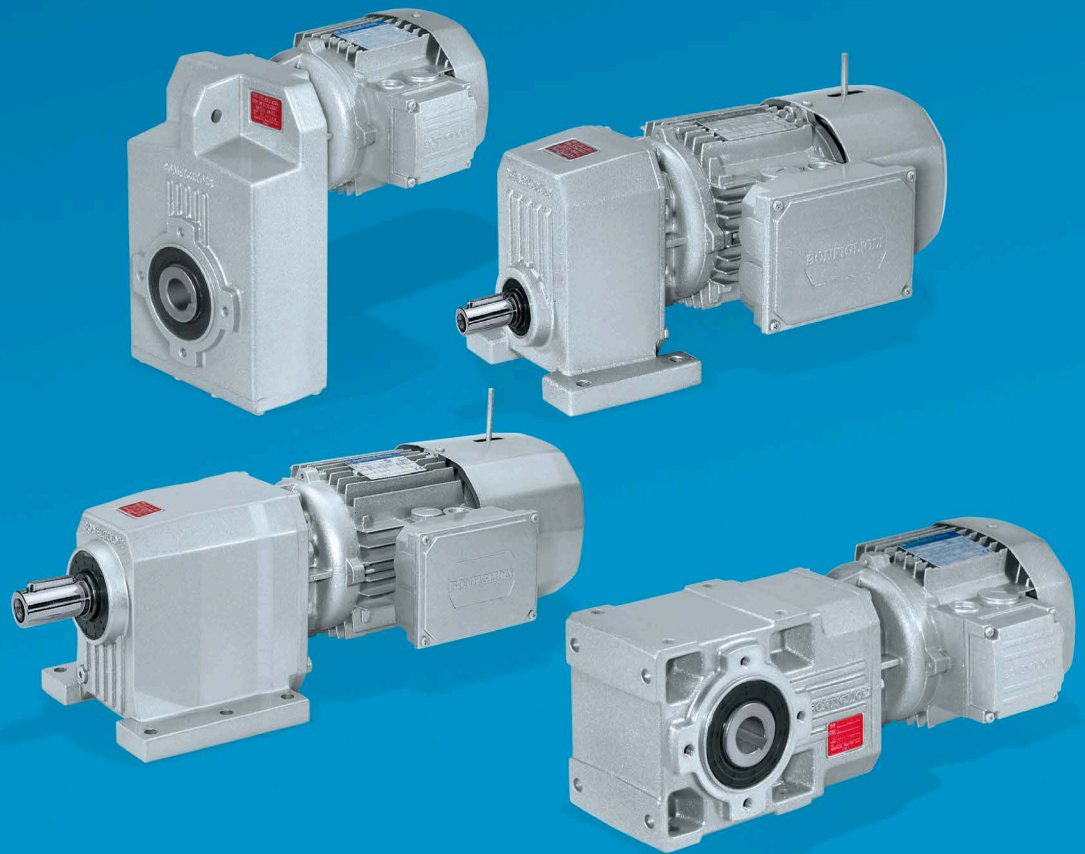
série C-A-F-S

Réducteurs coaxiaux série C

Réducteurs avec arbres orthogonaux
série A

Réducteurs pendulaires série F

Réducteurs a un étage de réduction
série S



Bonfiglioli

power, control and green solutions



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Révisions

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Sur le site www.bonfiglioli.com des catalogues avec les dernières révisions sont disponibles.



INFORMATIONS GENERALES

1 SYMBOLES ET UNITES DE MESURE

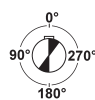
| Symboles | Unités de mesure | Description | Symboles | Unités de mesure | Description |
|-------------|---------------------|-----------------------------------|-------------|----------------------|---|
| $A_{N 1,2}$ | [N] | Charge axiale nominale | $n_{1,2}$ | [min ⁻¹] | Vitesse |
| f_s | – | Facteur de service | $P_{1,2}$ | [kW] | Puissance |
| f_T | – | Facteur thermique | $P_{N 1,2}$ | [kW] | Puissance nominale |
| f_{TP} | – | Facteur de température | $P_{R 1,2}$ | [kW] | Puissance nécessaire |
| i | – | Rapport de réduction | $R_{C 1,2}$ | [N] | Charge radiale de calcul |
| I | – | Rapport d'intermittence | $R_{N 1,2}$ | [N] | Charge radiale nominale |
| J_C | [Kgm ²] | Moment d'inertie de la charge | S | – | Facteur de sécurité |
| J_M | [Kgm ²] | Moment d'inertie du moteur | t_a | [°C] | Température ambiante |
| J_R | [Kgm ²] | Moment d'inertie du réducteur | t_f | [min] | Temps de fonctionnement à charge constante |
| K | – | Facteur d'accélération des masses | t_r | [min] | Temps de repos |
| K_r | – | Constante de transmission | η_d | – | Rendement dynamique |
| $M_{1,2}$ | [Nm] | Couple | η_s | – | Rendement statique |
| $M_{C 1,2}$ | [Nm] | Couple de calcul | φ | – | Jeu angulaire à l'arbre lent (avec arbre rapide bloqué) |
| $M_{n 1,2}$ | [Nm] | Couple nominal | | | |
| $M_{r 1,2}$ | [Nm] | Couple nécessaire | | | |

₁ valeurs pour l'arbre rapide

₂ valeurs pour l'arbre lent



Le symbole identifie la page à laquelle l'on peut trouver l'information.



Ce symbole présente les références angulaires pour l'indication de la direction de la charge radiale (l'arbre est vu de face).



Symbole se référant aux poids des réducteurs et des motoréducteurs. Les valeurs indiquées dans les tableaux des motoréducteurs comprennent tant le poids du moteur à 4 pôles que le poids du lubrifiant contenu, lorsque prévu par BONFIGLIOLI RIDUTTORI.

| Série C | Série A | Série F | Série S | |
|---------|---------|---------|---------|--|
| | | | | Motoréducteur avec moteur compact. |
| | | | | Motoréducteur avec moteur normalisé IEC. |
| | | | | Réducteur prédisposé pour liaison a moteur IEC. |
| | | | | Réducteur prédisposé pour liaison a servomoteur. |
| | | | | Réducteur avec arbre rapide cylindrique. |



2 COUPLE

2.1 Couple nominal M_{n2} [Nm]

C'est le couple transmissible en sortie avec une charge continue uniforme se référant à la vitesse en entrée n_1 et à celle correspondante en sortie n_2 .

Il est calculé sur la base d'un facteur de service $f_s = 1$.

2.2 Couple requis M_{r2} [Nm]

Il représente le couple requis par l'application et devra toujours être inférieur ou égal au couple en sortie nominal M_{n2} du réducteur choisi.

2.3 Couple de calcul M_{c2} [Nm]

C'est la valeur de couple à utiliser pour la sélection du réducteur en considérant le couple requis M_{r2} et le facteur de service f_s et s'obtient avec la formule :

$$M_{c2} = M_{r2} \cdot f_s < M_{n2} \quad (1)$$

3 PUISSANCE

3.1 Puissance en entrée P_{n1} [kW]

Dans les tableaux de sélection des réducteurs, c'est la puissance applicable en entrée se rapportant à la vitesse n_1 et en considérant un facteur de service $f_s = 1$.

4 PUISSANCE THERMIQUE P_t [kW]


P_t est la valeur qui indique la limite thermique du réducteur et représente la puissance transmissible en service continu, et à une température ambiante $t_a = 20^\circ\text{C}$, sans apparition de dommages au niveau des organes du réducteur ou de dégradations du lubrifiant. Voir tab. (A1).


En cas de service intermittent ou de température ambiante différente de 20°C , la valeur de P_t doit être corrigée au moyen du facteur f_t , exprimé dans le tableau (A2), à savoir: $P_t' = P_t \times f_t$





Enfin, pour les réducteurs ayant plus de deux réductions et/ou un rapport $i > 45$, la vérification de la puissance thermique n'est pas nécessaire car elle est certainement supérieure à la puissance mécanique transmissible.

(A 1)

| P_t [kW] 20 °C | | |
|---|-------------------------------|-------------------------------|
|  | $n_1 = 1400 \text{ min}^{-1}$ | $n_1 = 2800 \text{ min}^{-1}$ |
| C 05 2 | — | — |
| C 12 2 | — | — |
| C 22 2 | — | — |
| C 32 2 | — | 4.5 |
| C 36 2 | 6.5 | 5.0 |
| C 41 2 | 8.0 | 6.0 |
| C 51 2 | 11.0 | 7.8 |
| C 61 2 | 14.0 | 10.0 |
| C 70 2 | 21 | 16.0 |
| C 80 2 | 32 | 24 |
| C 90 2 | 43 | 32 |
| C 100 2 | 59 | 42 |

| P_t [kW] 20 °C | | |
|---|-------------------------------|-------------------------------|
|  | $n_1 = 1400 \text{ min}^{-1}$ | $n_1 = 2800 \text{ min}^{-1}$ |
| A 05 2 | 3.2 | 2.4 |
| A 10 2 | 4.8 | 4.0 |
| A 20 2 | 6.0 | 5.4 |
| A 30 2 | 8.0 | 6.6 |
| A 35 2 | 9.5 | 8.2 |
| A 41 2 | 11.5 | 9.6 |
| A 50 2 | 20 | 18.0 |
| A 55 2 | 21 | 18.0 |
| A 60 2 | 27 | 23 |
| A 70 3 | 31 | 26 |
| A 80 3 | 44 | 39 |
| A 90 3 | 64 | 57 |

| P_t [kW] 20 °C | | |
|---|-------------------------------|-------------------------------|
|  | $n_1 = 1400 \text{ min}^{-1}$ | $n_1 = 2800 \text{ min}^{-1}$ |
| F 10 2 | 3.8 | 2.7 |
| F 20 2 | 9.1 | 6.5 |
| F 25 2 | 10.2 | 7.4 |
| F 31 2 | 11.7 | 8.5 |
| F 41 2 | 14.3 | 10.4 |
| F 51 2 | 21.5 | 15.0 |
| F 60 3 | 26.0 | 18.9 |
| F 70 3 | 36.4 | 26.0 |
| F 80 3 | 52 | 36 |
| F 90 3 | 75 | 53 |

| P_t [kW] 20 °C | | |
|---|-------------------------------|-------------------------------|
|  | $n_1 = 1400 \text{ min}^{-1}$ | $n_1 = 2800 \text{ min}^{-1}$ |
| S 10 1 | 5.5 | 4.9 |
| S 20 1 | 7.8 | 7.2 |
| S 30 1 | 10.0 | 9.1 |
| S 40 1 | 15.6 | 14.3 |
| S 50 1 | 21 | 18.9 |



(A 2)

| | | f_t | | | |
|------------|-----------------|---------------------------|-----|-----|-----|
| t_a [°C] | Service continu | Service intermittent | | | |
| | | Degré d'intermittence [I] | | | |
| | | 80% | 60% | 40% | 20% |
| 40 | 0.80 | 1.1 | 1.3 | 1.5 | 1.6 |
| 30 | 0.85 | 1.3 | 1.5 | 1.6 | 1.8 |
| 20 | 1.0 | 1.5 | 1.6 | 1.8 | 2.0 |
| 10 | 1.15 | 1.6 | 1.8 | 2.0 | 2.3 |

Où le degré d'intermittence (I)% est fourni par le rapport entre le temps de fonctionnement en charge et le temps total ($t_f + t_r$) exprimé en pourcentage.

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (2)$$

La vérification à faire sera la suivante :

$$P_{r1} \leq P_t \times f_t \quad (3)$$















5 RENDEMENT

5.1 Rendement dynamique η_d

Il est donné par le rapport entre la puissance en sortie P_2 et celle en entrée P_1 :

$$\eta_d = \frac{P_2}{P_1} \cdot 100 \quad [\%] \quad (4)$$

(A 3)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
|  |  2 x |  3 x |  4 x |  |  2 x |  3 x |  4 x |
| η_d | 95% | 93% | 90% | η_d | 94% | 91% | 89% |
|  |  2 x |  3 x |  4 x |  |  1 x | | |
| η_d | 95% | 93% | 90% | η_d | 98% | | |



6 RAPPORT DE REDUCTION i

Le rapport de réduction est identifié par la lettre [i] et son calcul s'effectue à partir de la vitesse d'entrée n_1 et de la vitesse de sortie n_2 en utilisant la relation suivante :

$$i = \frac{n_1}{n_2} \quad (5)$$

Dans le catalogue, le rapport de réduction a une précision d'un chiffre après la virgule (sauf pour $i > 1000$).

Si une plus grande précision est nécessaire, contacter le Service Technique de Bonfiglioli.

7 VITESSE ANGULAIRE

7.1 Vitesse d'entrée n_1 [min⁻¹]

C'est la vitesse relative au type de motorisation choisie. Les valeurs de catalogue se réfèrent aux vitesses des moteurs électriques à simple et double polarité communément utilisés.

Si le réducteur reçoit le mouvement d'une transmission en entrée, il est toujours préférable d'adopter des vitesses inférieures à 1400 min⁻¹ afin de garantir des conditions optimales de fonctionnement. Des vitesses d'entrée supérieures sont admises en considérant le déclassement naturel du couple nominal M_{n2} du réducteur.

7,2 Vitesse en sortie n_2 [min⁻¹]

Elle varie en fonction de la vitesse d'entrée n_1 et du rapport de réduction i selon l'équation :

$$n_2 = \frac{n_1}{i} \quad (6)$$

8 MOMENT D'INERTIE J_r [Kgm²]

Les moments d'inertie indiqués dans le catalogue se réfèrent à l'axe d'entrée du réducteur par conséquent, dans le cas d'accouplement direct, ils se rapportent déjà à la vitesse du moteur.



9 FACTEUR DE SERVICE f_s

Le facteur de service est le paramètre qui traduit en une valeur numérique la difficulté du service que le réducteur est appelé à effectuer en tenant compte, avec une approximation inévitable, du fonctionnement journalier, de la variabilité de la charge et des éventuelles surcharges liées à l'application spécifique du réducteur.

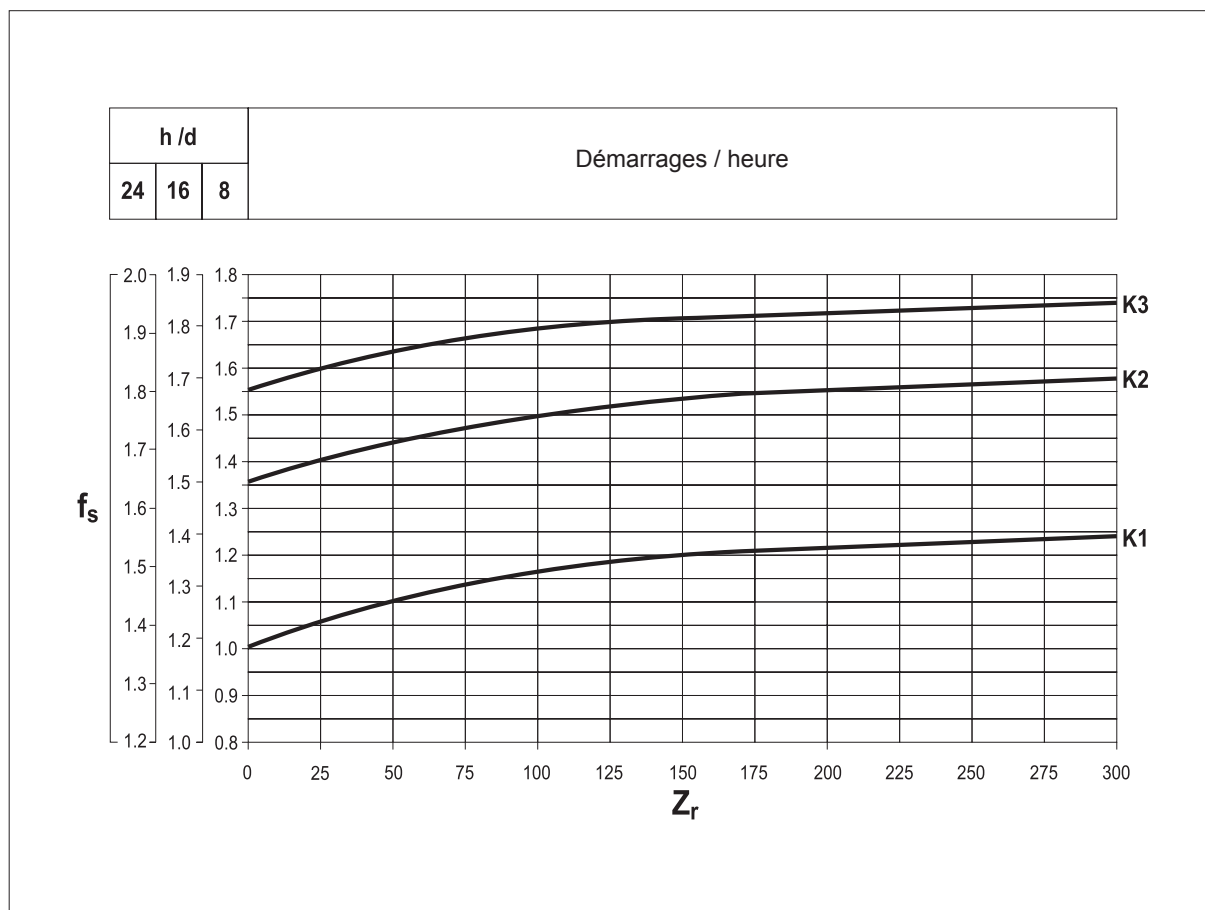
Sur le graphique (A4) ci-dessous, le facteur de service peut être trouvé, après avoir sélectionné la colonne relative aux heures de fonctionnement journalier, à l'intersection entre le nombre de démarrages horaire et l'une des courbes K1, K2 et K3.

Les courbes K_ sont associées à la nature du service (approximativement: uniforme, moyen et difficile) au moyen du facteur d'accélération des masses K, lié au rapport entre les inerties des masses conduites et le moteur.

Indépendamment de la valeur du facteur de service ainsi trouvée, nous signalons qu'il existe des applications parmi lesquelles, à titre d'exemple, les levages, pour lesquels la rupture d'un organe du réducteur pourrait exposer le personne opérant à proximité immédiate à des risques de lésion.

En cas de doute concernant les risques éventuels de l'application, nous vous conseillons de contacter préalablement notre Service Technique.

(A4)





9,1 Facteur d'accélération des masses K

Le paramètre sert à sélectionner la courbe relative au type de charge particulier.

La valeur est obtenue par l'équation :

(A 5)

| | | | | | | |
|-----------------------|---|---------|--|-------------------|------|---|
| $K = \frac{J_c}{J_m}$ | → | $J_c =$ | Moment d'inertie des masses commandées se référant à l'arbre du moteur | $K \leq 0,25$ | → K1 | Charge uniforme |
| | | $J_m =$ | Moment d'inertie du moteur | $0,25 < K \leq 3$ | → K2 | Charge avec chocs modérés |
| | | | | $3 < K \leq 10$ | → K3 | Charge avec chocs importants |
| | | | | $K > 10$ | → | Contacter le Service Technique de Bonfiglioli |

10 ENTRETIEN

Les réducteurs fournis avec lubrification permanente n'ont besoin d'aucun remplacement périodique de l'huile.

Pour les autres, nous conseillons d'effectuer une première vidange du lubrifiant après les 300 premières heures de fonctionnement en réalisant un lavage soigné à l'intérieur du groupe avec des produits détergents appropriés.

Eviter de mélanger les huiles à base minérale avec des huiles synthétiques.

Contrôler périodiquement le niveau du lubrifiant en effectuant les vidanges conformément aux intervalles indiqués dans le tableau (A6).

(A 6)

| Température huile [°C] | Intervalle de lubrification [h] | |
|---------------------------|------------------------------------|-------------------|
| | Huile minérale | Huile synthétique |
| < 65 | 8000 | 25000 |
| 65 - 80 | 4000 | 15000 |
| 80 - 95 | 2000 | 12500 |



11 SELECTION

Pour sélectionner correctement un réducteur ou un motoréducteur, il est nécessaire de disposer de certaines données fondamentales que nous avons résumé dans le tableau (A7).

En particulier, ce dernier pourra être rempli et retourné à notre service technique qui recherchera la motorisation la plus appropriée à l'application indiquée.

(A 7)

| | | |
|---|---|------------------|
| Type d'application | A_{c1} Charge axiale sur arbre d'entrée (+/-)(***) | N |
| P_{r2} Puissance en sortie à n ₂ maxi | J_c Moment d'inertie de la charge | Kgm ² |
| P_{r2}' Puissance en sortie à n ₂ mini | t_a Température ambiante | C° |
| M_{r2} Moment de torsion en sortie à n ₂ maxi | Altitude au-dessus du niveau de la mer | m |
| n₂ Vitesse de rotation maxi en sortie | Type de service selon CE S...../.....% | |
| n₂' Vitesse de rotation mini en sortie | Z Fréquence de démarrage | 1/h |
| n₁ Vitesse de rotation maxi en entrée | Tension d'alimentation moteur | V |
| n₁' Vitesse de rotation mini en entrée | Tension d'alimentation frein | V |
| R_{c2} Charge radiale sur arbre de sortie | Fréquence | Hz |
| x₂ Distance d'application de la charge (*) | M_b Couple de freinage | Nm |
| Orientation de la charge en sortie | Degré de protection moteur IP..... | |
| Sens de rotation arbre sortie (H-AH) (**) | Classe d'isolation | |
| R_{c1} Charge radiale sur arbre d'entrée | | |
| x₁ Distance d'application de la charge (*) | | |
| Orientation de la charge en entrée | | |
| Sens de rotation arbre entrée (H-AH) (**) | | |
| A_{c2} Charge axiale sur arbre de sortie (+/-)(***) | | N |

(*) La distance x₁₋₂ est celle comprise entre le point d'application de la force et l'épaulement de l'arbre (si non précisée l'on considèrera la force agissant au milieu de la saillie de l'arbre).

(**) H = sens horaire
AH = sens antihoraire

(***) + = compression
- = traction



11,1 Sélection des motoréducteurs

a) Déterminer le facteur de service f_s en fonction du type de charge (facteur K), du nombre d'insertions/heure Z_r et du nombre d'heures de fonctionnement.

b) A partir du couple M_{r2} , en connaissant n_2 et le rendement dynamique η_d , calculer la puissance en entrée.

$$P_{r1} = \frac{M_{r2} \cdot n_2}{9550 \cdot \eta_d} \text{ [kW]} \quad (7)$$

La valeur de η_d pour le réducteur spécifique peut être calculée d'après les indications du paragraphe 5.

c) Rechercher parmi les tableaux des caractéristiques techniques des motoréducteurs celui correspondant à une puissance :

$$P_n \geq P_{r1} \quad (8)$$

Sauf indication contraire la puissance P_n des moteurs indiquée dans le catalogue se réfère à un service continu S1.

Pour les moteurs utilisés dans des conditions différentes du service S1, il sera nécessaire d'identifier le type de service prévu en se référant aux normes CEI 2-3/IEC 34-1.

En particulier, pour les services de type S2 à S8 ou pour les tailles de moteurs égales ou inférieures à 132 il est possible d'obtenir une majoration de la puissance par rapport à celle prévue pour le service continu. Par conséquent, la condition à satisfaire sera :

$$P_n \geq \frac{P_{r1}}{f_m} \quad (9)$$

Le facteur de majoration f_m peut être obtenu en consultant le tableau (A8).

11,2 Rapport d'intermittence

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (10)$$

t_f = temps de fonctionnement à charge constante

t_r = temps de repos



(A 8)

| | SERVICE | | | | | | |
|-------|----------------------|------|------|-----------------------------|------|-----|-----------------------------------|
| | S2 | | | S3* | | | S4 - S8 |
| | Durée du cycle [min] | | | Rapport d'intermittence (I) | | | Contacter notre Service Technique |
| 10 | 30 | 60 | 25% | 40% | 60% | | |
| f_m | 1.35 | 1.15 | 1.05 | 1.25 | 1.15 | 1.1 | |

* La durée du cycle devra être égale ou inférieure à 10 minutes. Si supérieure, contacter notre Service Technique.

Dans la section relative à la puissance installée P_n sélectionner enfin le motoréducteur qui développe la vitesse de fonctionnement la plus proche à la vitesse n_2 désirée et pour lequel le facteur de sécurité S soit égal, ou supérieur, au facteur de service f_s .

Le facteur de sécurité est défini ainsi :

$$S = \frac{M_{n2}}{M_2} = \frac{P_{n1}}{P_1} \quad (11)$$

Dans les tableaux de sélection des motoréducteurs les accouplements sont développés avec moteurs à 2, 4 et 6 pôles alimentés à 50 Hz. Pour vitesses de commande différentes à celles-ci, sélectionner suite aux données nominales fournies par les réducteurs.

11,3 Sélection des réducteurs et des réducteurs IEC

a) Déterminer le facteur de service f_s .

b) En connaissant le couple M_{r2} de sortie requis par l'application, l'on procède à la définition du couple de calcul :

$$M_{c2} = M_{r2} \cdot f_s \quad (12)$$

c) Suivant la vitesse en sortie n_2 requise et celle en entrée n_1 disponible, l'on calcule le rapport de réduction :

$$i = \frac{n_1}{n_2} \quad (13)$$



En disposant des données M_{c2} et i , l'on recherchera dans les tableaux correspondant à la vitesse n_1 le réducteur qui, en fonction du rapport $[i]$ le plus proche de celui calculé, propose un couple nominal :

$$M_{n2} \geq M_{c2} \quad (14)$$

Au cas où il serait nécessaire d'appliquer un moteur électrique normalisé au réducteur choisi, en vérifier la possible adaptation en consultant le tableau des prédispositions possibles présenté.

12 VERIFICATIONS

Une fois effectuée la sélection du réducteur, ou motoréducteur, il faut procéder aux vérifications suivantes :

a) Puissance thermique

S'assurer que la puissance thermique du réducteur ait une valeur supérieure ou égale à la puissance requise par l'application selon l'équation (3) page 6. Dans le cas contraire, sélectionner un réducteur de taille supérieure ou bien prévoir un système de refroidissement forcé.

b) Couple maximum

Généralement, le couple maximum (à considérer comme une pointe de charge instantanée) applicable au réducteur ne doit pas dépasser les 200% du couple nominal M_{n2} .

Vérifier par conséquent que cette limite ne soit pas dépassée en adoptant, si nécessaire, des dispositifs adaptés pour limiter le couple.

Pour les moteurs triphasés à double polarité, il est nécessaire de prêter une attention particulière au couple de commutation instantané qui est généré lors du passage de la grande à la petite vitesse étant donné qu'il peut être considérablement plus élevé que le couple maximum lui même.

Une méthode simple et économique pour réduire ce couple consiste à alimenter seulement deux phases du moteur pendant la commutation (la durée d'alimentation sur deux phases peut être réglée au moyen d'un relais temporisateur) :

$$M_{g2} = 0.5 \cdot M_{g3}$$

M_{g2} = Couple de commutation en alimentant deux phases

M_{g3} = Couple de commutation en alimentant trois phases

Nous suggérons cependant de contacter notre Service Technique.

c) Charges radiales

Vérifier que les charges radiales agissant sur les arbres d'entrée et/ou de sortie se situent dans les valeurs de catalogue admises.

Si elles sont supérieures, choisir une taille de réducteur supérieure ou modifier la reprise de charge. Rappelons que toutes les valeurs indiquées dans le catalogue se réfèrent à des charges agissant au milieu de la longueur disponible de l'arbre contrôlé. Par conséquent, en phase de vérification, il est indispensable de prendre en considération cette condition en déterminant, si nécessaire, avec les formules appropriées, la charge admissible à la distance x_{1-2} désirée. Se rapporter à ce propos aux paragraphes relatifs aux charges radiales.



d) Charges axiales

Les éventuelles charges axiales devront être comparées avec les valeurs admissibles. Si l'on est en présence de charges axiales très élevées ou combinées avec des charges radiales, nous conseillons d'interpeller notre Service Technique.

e) Démarrages/heure

Pour les services différents de S1, avec un nombre important d'insertions/heure, il faudra prendre en considération un facteur Z (déterminé à l'aide des informations reportées dans le chapitre des moteurs) qui définit le nombre maximum de démarrages spécifique pour l'application concernée.

13 INSTALLATION

Il est très important, pour l'installation du réducteur, de se conformer aux règles suivantes :

a) S'assurer que la fixation du réducteur soit stable afin d'éviter toute vibration.

Installer (en cas de chocs, de surcharges prolongées ou de blocages) des coupleurs hydrauliques, des embrayages, des limiteurs de couple etc...

b) En phase de peinture, il faudra protéger les plans usinés et le bord extérieur des bagues d'étanchéité pour éviter que la peinture ne dessèche le caoutchouc, ce qui risque de nuire à l'efficacité du joint.

c) Les organes qui sont calés sur les arbres de sortie du réducteur doivent être réalisés avec une tolérance ISO H7 pour éviter les accouplements trop serrés qui, en phase de montage, pourraient endommager irrémédiablement le réducteur.

En outre, pour le montage et le démontage de ces organes, nous conseillons d'utiliser un outillage et des extracteurs appropriés en utilisant le trou taraudé situé en extrémité d'arbre.

d) Les surfaces de contact devront être propres et traitées avec des produits de protections appropriés avant le montage afin d'éviter l'oxydation et par suite le blocage des pièces.

e) Avant la mise en service du réducteur, vérifier que la machine où il est monté est conforme aux normes de la Directive Machines 2006/42/CE et ses mises à jour.

f) Avant la mise en marche de la machine, s'assurer que la position du niveau du lubrifiant soit conforme à la position de montage du réducteur et que la viscosité soit appropriée (Reportez-vous au manuel de l'utilisateur disponible sur www.bonfiglioli.com).

g) En cas d'installation en plein air, il est nécessaire d'appliquer des protections et/ou des caches appropriés de façon à éviter l'exposition directe aux agents atmosphériques et aux rayonnements solaires.



13,1 Assemblage du servomoteur avec le frette de serrage (entrée type SC)

Tourner la frette de serrage jusqu'à aligner sa fente en correspondance de celles présentes sur l'arbre d'entrée du réducteur.

Si l'arbre moteur est muni d'une clavette, celle-ci doit être retirée et son logement doit être lui aussi aligné sur le même plan, disposé du même coté de la vis de la frette.

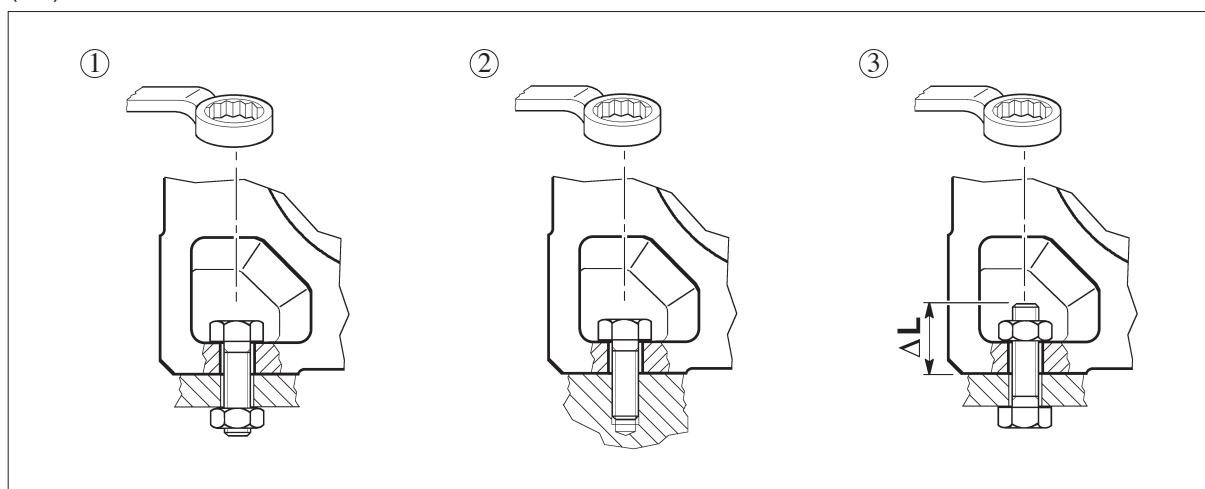
Accoster ensuite la bride du moteur à la bride du réducteur et serrer les vis de fixation.

Serrer la vis de la frette en utilisant une clé dynamométrique introduite dans le trou présent sur la face latérale de la bride. Les couples de serrage sont spécifiés dans les pages des dimensions de chaque réducteur.

14 INSTRUCTIONS POUR L'INSTALLATION

Dans les schèmes indiqués dans le tableau (A9) l'on a indiqué 3 cas possibles pour le montage des réducteurs type A à la structure de la machine. Pour tous ces cas l'on doit se référer pour les dimensions des vis à tête hexagonales à employer, au tableau (A10). Pour un montage plus soigneux nous conseillons l'emploi du type de clé indiquée au tableau (A9).

(A 9)



(A 10)

| | Type de vis | | | |
|-------------|-------------|--------|----------|-----------------|
| | ① | ② | ③ | ΔL (mm) |
| A 05 | M8x22 | M8x20 | M8x ... | 22 |
| A 10 | M8x25 | M8x20 | M8x ... | 20 |
| A 20 | M8x25 | M8x20 | M8x ... | 20 |
| A 30 | M10x30 | M10x25 | M10x ... | 25 |
| A 35 | M10x30 | M10x25 | M10x ... | 25 |
| A 41 | M12x35 | M12x30 | M12x ... | 30 |

| | Type de vis | | | |
|-------------|-------------|--------|----------|-----------------|
| | ① | ② | ③ | ΔL (mm) |
| A 50 | M14x45 | M14x40 | M14x ... | 35 |
| A 55 | M14x40 | M14x40 | M14x ... | 35 |
| A 60 | M16x50 | M16x45 | M16x ... | 40 |
| A 70 | M20x60 | M20x55 | M20x ... | 45 |
| A 80 | M24x70 | M24x65 | M24x ... | 55 |
| A 90 | M24x90 | M24x80 | M24x ... | 65 |



15 STOCKAGE

Un correct stockage des produits reçus nécessite de respecter les règles suivantes :

- a) Exclure les zones à ciel ouvert, les zones exposées aux intempéries ou avec humidité excessive.
- b) Interposer dans tous les cas entre les produits et le sol, des planches de bois ou des supports d'autre nature empêchant un contact direct.
- c) Pour un stockage de long durée il faut protéger les surfaces d'accouplement (brides, arbres, manchon d'accouplement) avec produit anti oxydant (Mobilarma 248 ou équivalent).

Dans ce cas les réducteurs devront être placés avec bouchon reniflard vers le haut et complètement rempli d'huile.

Avant de la mise en service du réducteur, la bonne quantité d'huile devra être rétablie selon la quantité indiquée sur le catalogue.

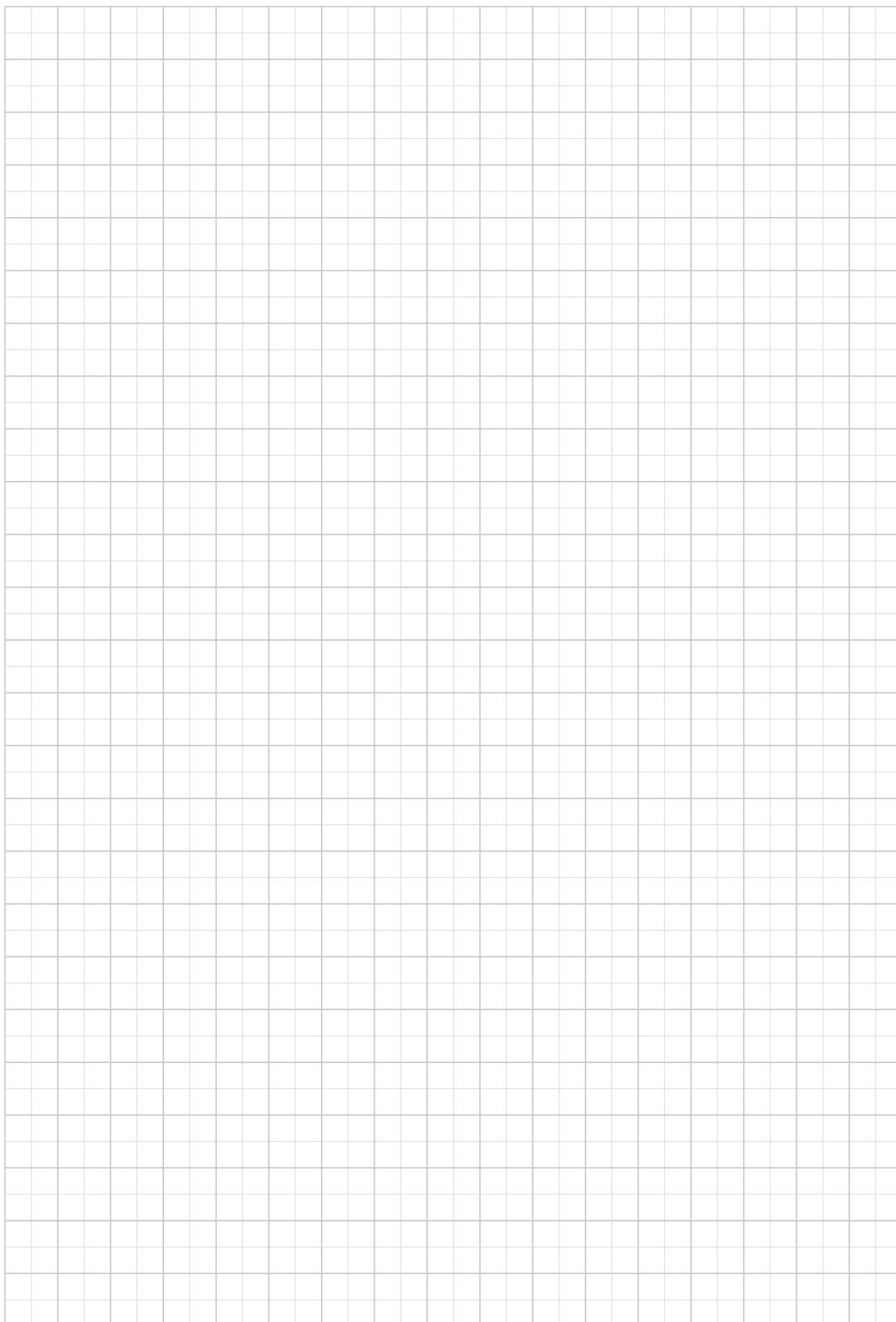
16 CONDITIONS DE LIVRAISON

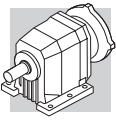
Les réducteurs sont livrés comme suit :

- a) déjà prédisposés pour être installés dans la position de montage comme défini en phase de commande ;
- b) testés selon les spécifications internes ;
- c) les surfaces de liaison ne sont pas peintes ;
- d) équipés d'écrous et de boulons pour le montage des moteurs normalisés pour la version IEC ;
- e) embouts de protections en plastique sur les arbres ;
- f) dotés d'un crochet de levage (quand cela est prévu).

17 SPECIFICATIONS DE LA PEINTURE

Les spécifications de la peinture appliquée sur les réducteurs pourront, le cas échéant, être demandées aux filiales ou aux distributeurs ayant fourni les groupes.





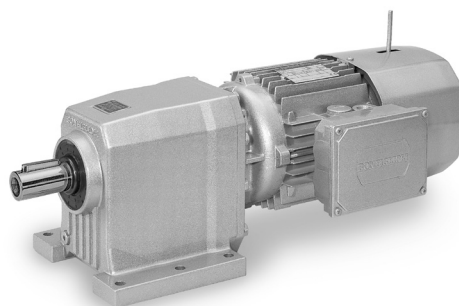
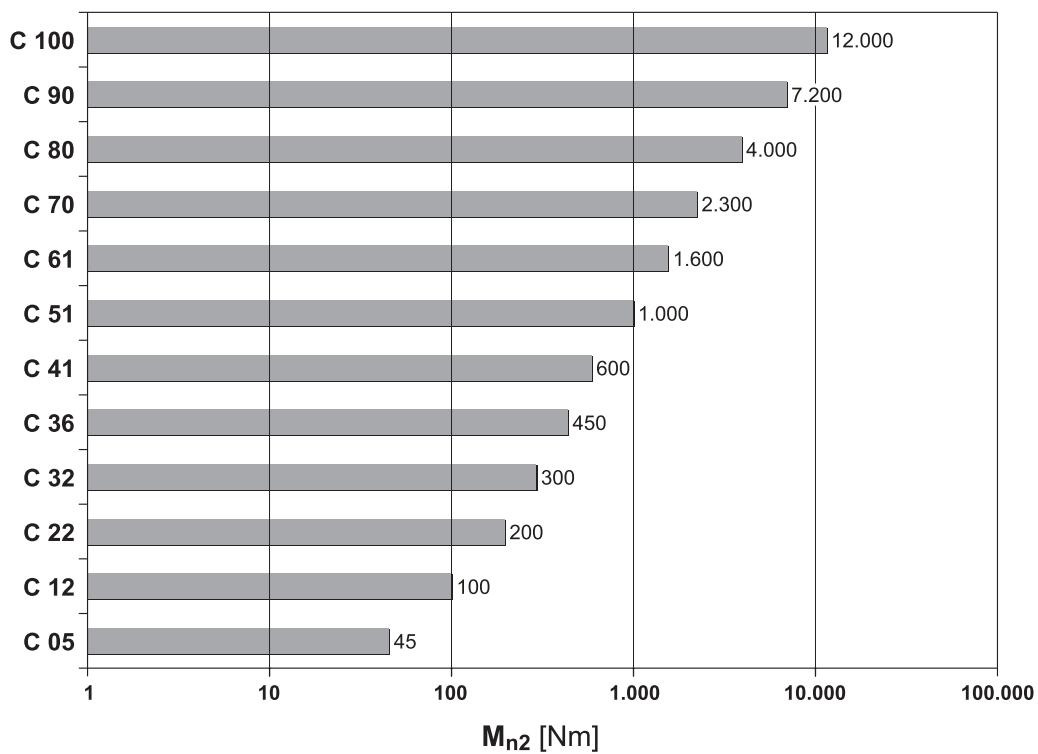
MOTOREDUCTEURS COAXIAUX SERIE C

18 CARACTERISTIQUES DE CONSTRUCTION

Les principales caractéristiques de construction sont :

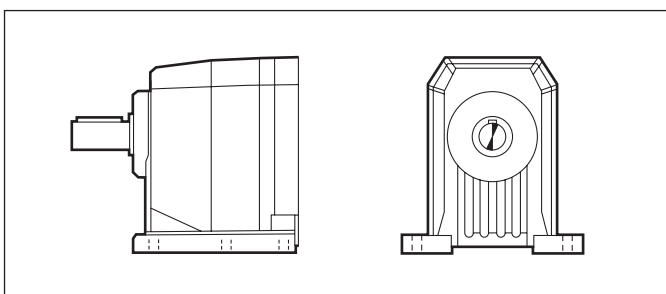
- modularité
- compacité
- montages universels
- rendements élevés
- faible niveau de bruit
- engrenages en acier allié cémentés et trempés
- carters en aluminium non peints dans les tailles 05, 12, 22, 32, carters en fonte à haute résistance peints dans les autres tailles
- arbres d'entrée et de sortie en acier à haute résistance.

(B 11)





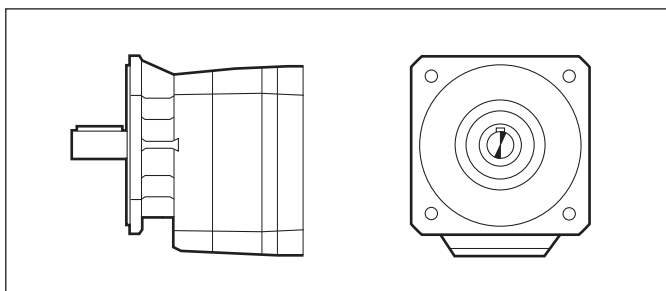
19 FORMES DE CONSTRUCTION



P

Cartier à pattes monobloc

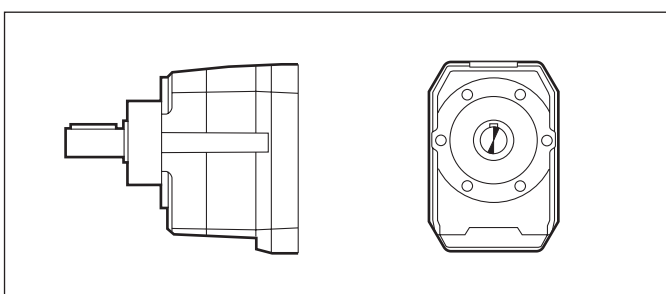
C 05 ... C 100



F

Cartier à bride monobloc

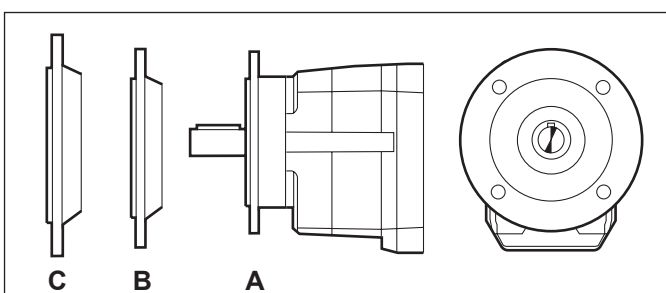
C 05 ... C 32
C 70 ... C 100



U

UNIBOX - carter universel

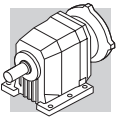
C 12 ... C 61



UF

UNIBOX bride rapportée

C 12 ... C 61



20 DESIGNATION

REDUCTEUR

C 32 2 F 52.4 S1 B5

OPTIONS

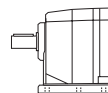
22

POSITION DE MONTAGE

C...P: **B3** (Standard), B6, B7, B8, V5, V6
 C...F/U/UF: **B5** (Standard), B51, B53, B52, V1, V3

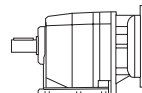
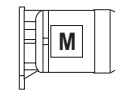
26

DESIGNATION ENTREE



(C05...C100)

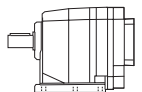
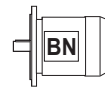
S05 ... S5



(C12...C100)

IEC_

P63 ... P280

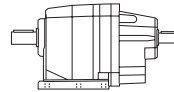
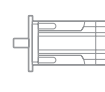


(C12...C61)

SK_



SC_

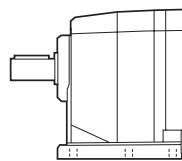


(C12...C100)

HS

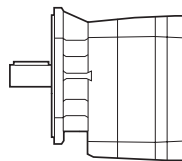
RAPPORT DE REDUCTION

FORME DE CONSTRUCTION



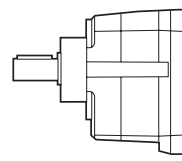
P

(C05...C100)



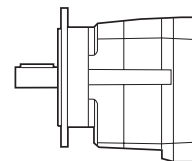
F

(C05...C32)
(C70...C100)



U

(C12...C61)



UFA

UFB

UFC

(C12...C61)

ETAGES DE REDUCTION

2, 3, 4

TAILLE REDUCTEUR

05, 12, 22, 32, 36, 41, 51, 61, 70, 80, 90, 100

TYPE: **C** = coaxial



MOTEUR

FREIN

M 1LA 4 230/400-50 IP54 CLF W FD 7.5 R SB 220 SA

OPTIONS

24

ALIMENTATION
FREIN

521 526 531 534

TYPE REDRESSEUR
AC/DC
NB, SB, NBR, SBR

522 527

LEVIER DE DEBLOCAGE FREIN
R, RM

536

COUPLE FREIN

523 528 531 534

TYPE DE FREIN
FD, AFD (frein c.c.)
FA, BA (frein c.a.)

520 525 530 533

POSITION BOITE A BORNES
W (default), N, E, S

26

FORME DE CONSTRUCTION
— (moteur compact)
B5 (moteur IEC)

CLASSE ISOLATION
CL F standard
CL H option

514

DEGRE DE PROTECTION
IP55 standard (IP54 - moteur frein)

509

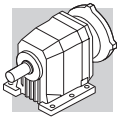
TENSION - FREQUENCE

512

Nbre POLES
2, 4, 6, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8

TAILLE MOTEUR
0B ... 5LA (moteur compact)
63A ... 280M (moteur IEC)

TYPE MOTEUR
M = 3 phasé compact
BN = 3 phasé IEC



20.1 Options réducteurs

SO

Les réducteurs C05, C12, C22, C32, C36, C41 habituellement fournis avec lubrifiant par la société BONFIGLIOLI RIDUTTORI, sont demandés sans lubrifiant.

LO

Les réducteurs C51, C61, C70, C80, C90, C100 habituellement dépourvus de lubrifiant, sont demandés avec huile synthétique du type couramment utilisé par BONFIGLIOLI RIDUTTORI et remplis conformément à la position de montage demandée

DL

L'arbre lent est équipé avec double joint d'étanchéité.

DV

2 bagues d'étanchéité sur l'arbre rapide. (Disponible seulement sur motoréducteurs compacts).

VV

Bague d'étanchéité en élastomère fluoré sur l'arbre rapide.

PV

Toutes les bagues d'étanchéité en élastomère fluoré.

RB

Les réducteurs des types C12, C22, C32, C36, C41, C51 et C61, habituellement fournis avec un jeu angulaire standard, sont, dans ce cas, fournis avec un jeu angulaire réduit.

Les valeurs correspondantes au jeu angulaire sont reportées dans le tableau suivant.

(B 12)

| | | standard | | | RB | |
|----------|-----|-------------------------|---|------------|---------|------------|
| C 05 | i = | 5.5 ; 9.3 ; 15.6 ; 27.1 | 6.7 ; 7.4 ; 11.2 ; 12.5 ; 18.9 ; 21.0 ; 32.8_44.7 | | — | |
| | φ | 34 | 29 | | — | |
| C 12 | i = | 2.8_6.2 | 7.6_66.2 | | 2.8_6.2 | 7.6_66.2 |
| | φ | 55 | 29 | | — | 13 |
| C 22 | i = | 2.7_6.1 | 7.1_261.0 | | 2.7_6.1 | 7.1_261.0 |
| | φ | 47 | 25 | | — | 12 |
| C 32 | i = | 2.9_6.3 | 7.2_274.7 | | 2.9_6.3 | 7.2_274.7 |
| | φ | 39 | 21 | | — | 11 |
| C 36 | i = | 2.7_5.8 | 6.8_19.0 | 22.1_848.5 | 2.7_5.8 | 6.8_848.5 |
| | φ | 37 | 20 | 17 | — | 10 |
| C 41 2 | i = | 2.7_6.0 | 6.4_44.8 | — | 2.7_6.0 | 6.4_44.8 |
| | φ | 34 | 17 | — | — | 9 |
| C 41 3/4 | i = | — | — | 28.5_855.5 | — | 28.5_855.5 |
| | φ | — | — | 15 | — | 9 |
| C 51 2 | i = | 2.6_5.6 | 7.0_57.0 | — | 2.6_5.6 | 7.0_57.0 |
| | φ | 32 | 15 | — | — | 8 |
| C 51 3/4 | i = | — | — | 21.8_884.9 | — | 21.8_884.9 |
| | φ | — | — | 13 | — | 8 |
| C 61 2 | i = | 2.8_6.0 | 6.7_38.0 | — | 2.8_6.0 | 6.7_38.0 |
| | φ | 27 | 13 | — | 12 | 7 |
| C 61 3/4 | i = | — | — | 26.8_796.1 | — | 26.8_796.1 |
| | φ | — | — | 11 | — | 7 |
| C 70 | i = | 4.6_34.7 | 41.3_1476 | | — | |
| | φ | 18 | 20 | | — | |
| C 80 | i = | 5.6_39.1 | 43.5_1481 | | — | |
| | φ | 16 | 18 | | — | |
| C 90 | i = | 5.2_35.1 | 39.4_1240 | | — | |
| | φ | 16 | 18 | | — | |
| C 100 | i = | 4.9_29.6 | 34.3_1081 | | — | |
| | φ | 14 | 16 | | — | |

Pour la cadence de livraison contacter le réseau de vente Bonfiglioli



PROTECTION DE SURFACE

Lorsque qu'aucune classe de protection n'est requise, les surfaces (ferreuses) des réducteurs fournissent une protection minimale de classe C2 (UNI EN ISO 12944-2). Afin d'améliorer la résistance à la corrosion atmosphérique, les réducteurs peuvent être fournis avec une protection de surface **C3** et **C4**, obtenue par recouvrement complet.

(B 13)

| PROTECTION DE SURFACE | Environnements typiques | Température maximum de surface | Classe de corrosivité en accord avec UNI EN ISO 12944-2 |
|-----------------------|--|--------------------------------|---|
| C3 | Environnement urbains et industriels avec jusqu'à 100% d'humidité relative (pollution de l'air moyenne) | 120°C | C3 |
| C4 | Zones industrielles, zones côtières, usines chimiques, avec jusqu'à 100% d'humidité relative (pollution de l'air élevée) | 120°C | C4 |

Les réducteurs avec une protection optionnelle en classes **C3** ou **C4** sont disponibles dans plusieurs teintes.

Si aucune teinte spécifique n'est requise (voir l'option "PEINTURE"), les réducteurs seront réalisés en RAL 7042.

Les réducteurs peuvent également être fournis avec une protection de surface pour une corrosivité en classe **C5** en accord avec UNI EN ISO 12944-2. Contacter notre Service Technique pour plus de détails.

PEINTURE

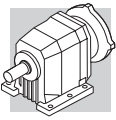
Les réducteurs avec une protection optionnelle en classe C3 ou C4 sont disponibles dans les teintes indiquées dans la table suivante.

(B 14)

| PEINTURE | Couleur | RAL numéro |
|-----------------|-----------------|------------|
| RAL7042* | Gris traffic A | 7042 |
| RAL5010 | Bleu gentiane | 5010 |
| RAL9005 | Noir foncé | 9005 |
| RAL9006 | Aluminium blanc | 9006 |
| RAL9010 | Blanc pur | 9010 |

* Les réducteurs sont fournis dans cette teinte standard si rien n'est spécifié.

NOTE – Les options "PEINTURE" peuvent seulement être spécifiées en accord avec les options "PROTECTION DE SURFACE".



PREUVES DOCUMENTAIRES

AC - Certificat de conformité

Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

CC - Certificat de réception

La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des dimensions d'accouplement. En outre, des contrôles généraux de fonctionnement à vide et des vérifications de la fonctionnalité des joints d'étanchéité sont réalisés en modalité statique et en fonctionnement. La vérification s'applique à un échantillon statistique du lot d'expédition.

20.2 Options moteurs

AA, AC, AD

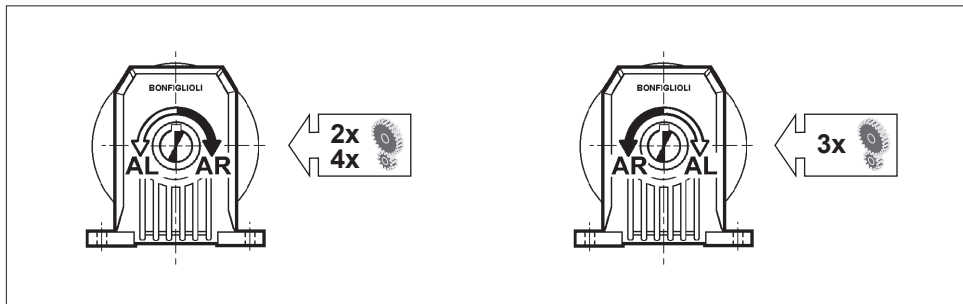
Position angulaire du levier de déblocage du frein par rapport à la position de la boîte à bornes en regardant du côté du ventilateur.

Position standard = 90° sens horaire. AA = 0°, AC = 180°, AD = 90° sens anti-horaire.

AL, AR

Pour les motoréducteurs équipés d'un moteur compact de série M, l'option antidévireur située sur le moteur même et décrite dans la section moteurs électriques de ce catalogue est disponible. Le tableau suivante montre le sens de rotation libre du réducteur, sur la base duquel devra être effectué le choix de l'option.

(B 15)



CF

Filtre capacitif.

D3

3 sondes bimétalliques dans les enroulements à une température de 150 °C.

E3

3 thermistances dans les enroulements à une température de 150 °C.

F1

Volant pour démarrage progressif.

H1

Réchauffeurs anticondensation. Alimentation standard 1~ 230V ±10%.

**PN**

Puissance à 60 Hz correspondante à la puissance normalisée à 50 Hz.

PS

Double extrémité d'arbre (à l'exclusion de l'option RC et U1).

RC

Capot protection antipluie (option PS exclue).

RV

Equilibrage rotor avec degré de vibration B.

TC

La variante du capot type TC est à spécifier lorsque le moteur est installé dans des sites de l'industrie textile.

L'option exclue les variantes EN_ et n'est pas applicable aux moteurs avec frein type BA.

TP

Tropicalisation.

U1

Servo-ventilateur (options PS et CUS exclues).

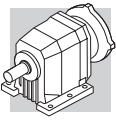
U2

Servoventilateur sans boîte à bornes, doté de câbles précâblés à l'intérieur. Pas applicable avec les options PS et CUS. Disponible pour moteurs :

BN 71... BN 132,

M1 ... M4.

Pour de plus amples informations sur les options, consulter la section moteurs électriques.



21 LUBRIFICATION

Les organes internes des réducteurs Bonfiglioli sont lubrifiés avec un système mixte d'immersion et de barbotage de l'huile.

Les groupes C05, C12, C22, C32, C36 et C41 sont normalement livrés avec charge de lubrifiant de l'usine, ou du réseau de vente officiel.

Les groupes de taille C51 et supérieures sont normalement fournis sans lubrifiant, et le remplissage d'huile sera à la charge de l'utilisateur avant la mise en service.

Dans les deux cas, selon les versions, avant la mise en service du réducteur, il pourrait être nécessaire de remplacer le bouchon fermé utilisé pour le transport par le bouchon d'évent fourni.

Pour les tableaux de référence pour le placement des bouchons de service et la quantité de lubrifiant, se référer au Manuel d'Installation, Utilisation et Entretien (disponible sur www.bonfiglioli.com).

Le lubrifiant "long life"; fourni de série est de nature synthétique et, à moins de contamination par l'extérieur, il ne demande pas des remplacements périodiques pour toute la durée de vie du réducteur.

Le fonctionnement des réducteurs est admis pour des températures ambiantes comprises entre -20°C et $+40^{\circ}\text{C}$. Pour des températures ambiantes comprises entre -20°C et -10°C le démarrage du réducteur est admis seulement après un préchauffage progressif et homogène, ou avec un fonctionnement « à vide », sans charge appliquée.

La charge pourra être ensuite appliquée à l'arbre du réducteur quand celui-ci aura atteint une température de -10°C , ou supérieure.

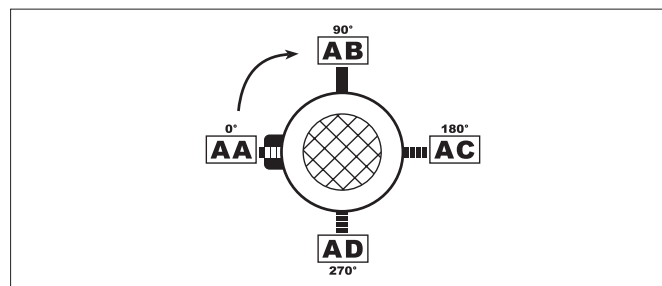
22 POSITIONS DE MONTAGE ET ORIENTATION BOITE A BORNES

Les orientations des boîtes à bornes des moteurs sont définies en regardant le moteur du côté ventilateur. L'orientation standard est indiquée en noir (W).

Position angulaire levier débloqué frein.

Dans les moteurs freins, ce levier (si requis) aura l'orientation standard de 90° par rapport à la boîte à bornes (position AB) ; spécifier avec options relatives si l'orientation désirée est différente.

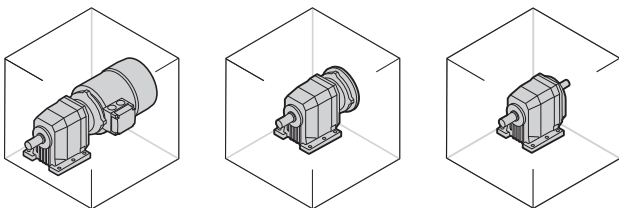
(B 16)





C ... P

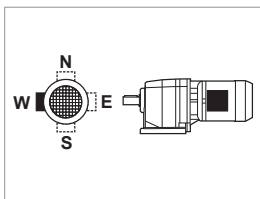
B3



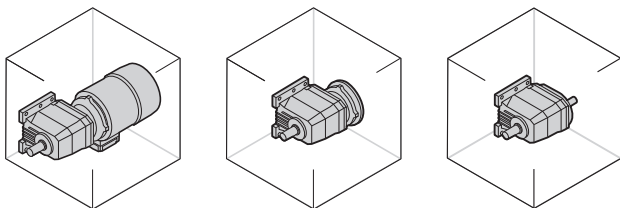
_S

_P(IEC) _SK / _SC

_HS



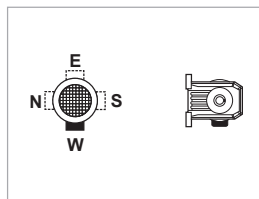
B6



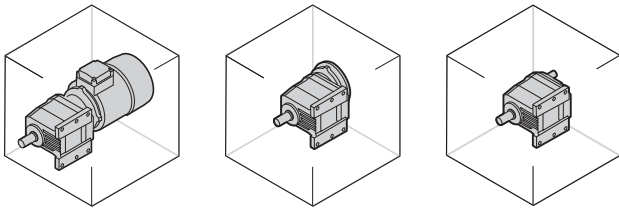
_S

_P(IEC) _SK / _SC

_HS



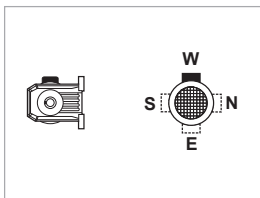
B7



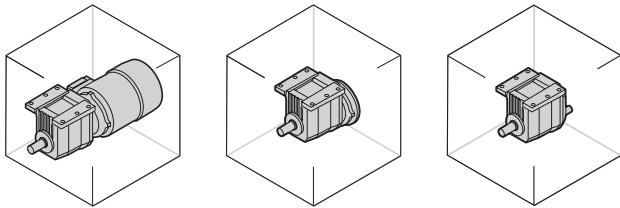
_S

_P(IEC) _SK / _SC

_HS



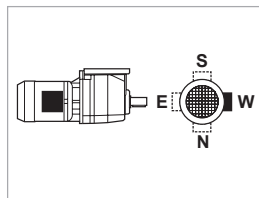
B8



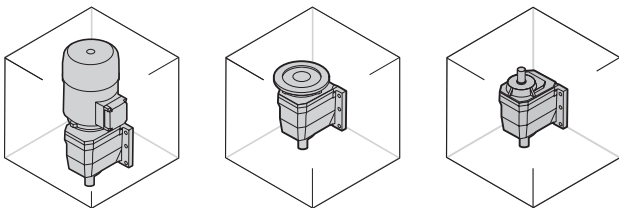
_S

_P(IEC) _SK / _SC

_HS



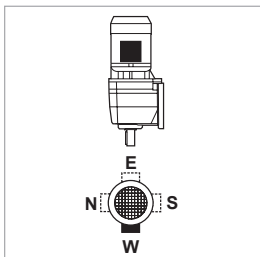
V5



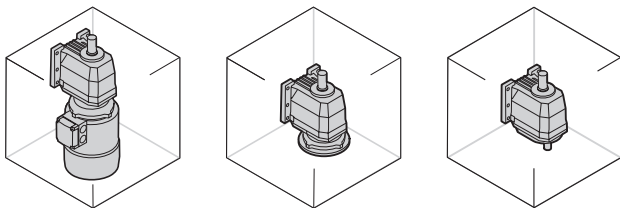
_S

_P(IEC) _SK / _SC

_HS



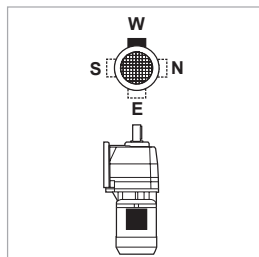
V6



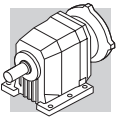
_S

_P(IEC) _SK / _SC

_HS

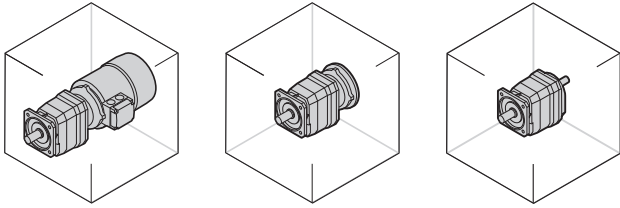


W = Default

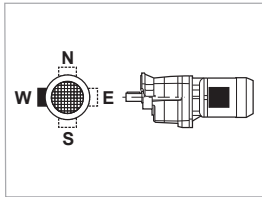


C ... F C ... U C ... UF

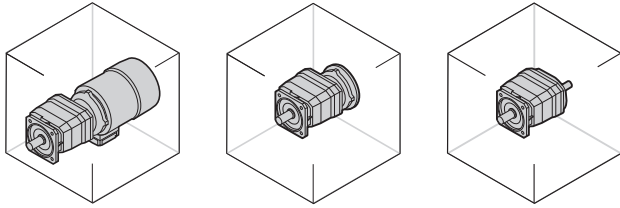
B5



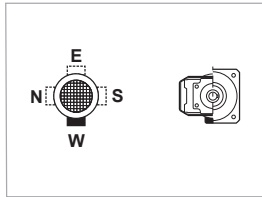
_S _P(IEC) _SK / _SC _HS



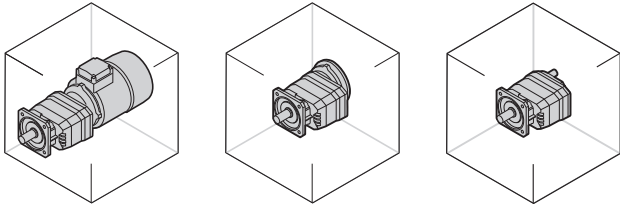
B51



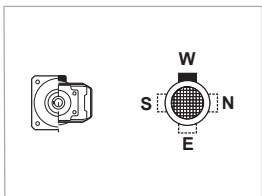
_S _P(IEC) _SK / _SC _HS



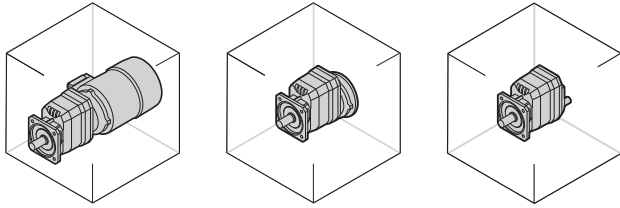
B53



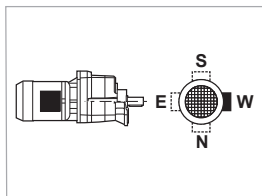
_S _P(IEC) _SK / _SC _HS



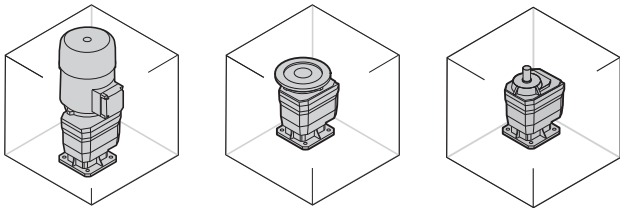
B52



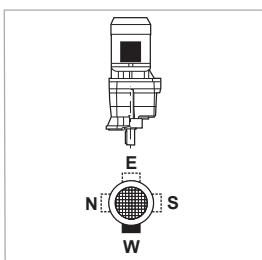
_S _P(IEC) _SK / _SC _HS



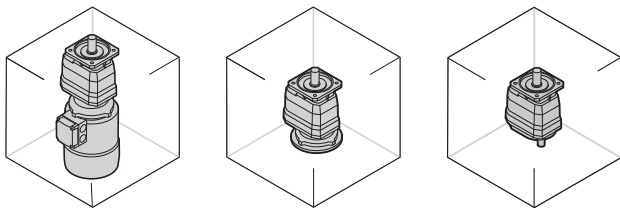
V1



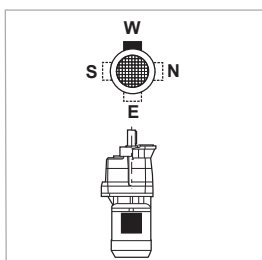
_S _P(IEC) _SK / _SC _HS



V3



_S _P(IEC) _SK / _SC _HS



W = Default



23 CHARGES RADIALES

Les organes de transmission calés sur les arbres d'entrée et/ou de sortie du réducteur génèrent des forces dont la résultante agit sur l'arbre dans le sens radial.

L'entité de ces charges doit être compatible avec la capacité d'endurance du système arbre-roulements du réducteur. Plus particulièrement, la valeur absolue de la charge appliquée (R_{c1} pour l'arbre d'entrée, R_{c2} pour l'arbre de sortie) doit être inférieure à la valeur nominale (R_{n1} pour l'arbre d'entrée, R_{n2} pour l'arbre de sortie) indiquée dans les tableaux des données techniques.

Dans les formules qui suivent, l'indice (1) se réfère à des valeurs relatives à l'arbre rapide, l'indice (2) concerne l'arbre lent.

La charge générée par une transmission extérieure peut être calculée, avec une bonne approximation, au moyen de la formule suivante:

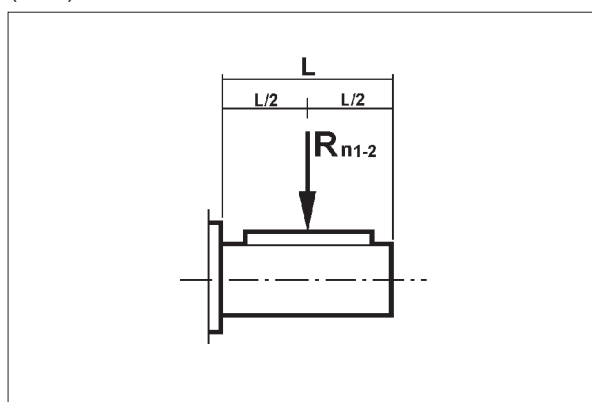
$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (15)$$

(B 17)

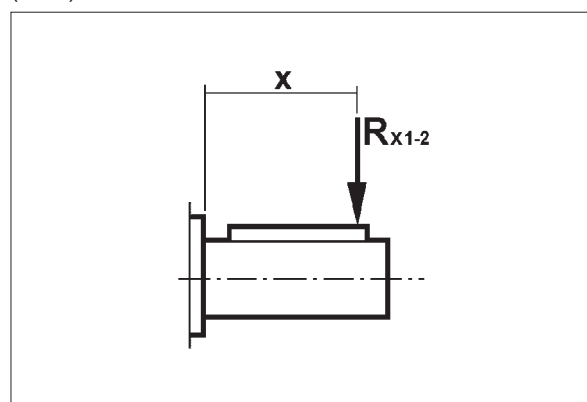
| | | | |
|------------|---|--------------|--------------------------------------|
| M_1 [Nm] | Couple appliqué à l'arbre rapide | $K_r = 1,25$ | Transmission à engrenage |
| M_2 [Nm] | Couple délivré par l'arbre lent | $K_r = 1,5$ | Transmission à courroie trapézoïdale |
| d [mm] | Diamètre primitif de l'organe monté sur l'arbre | $K_r = 2,0$ | Transmission à courroie plate |
| $K_r = 1$ | Transmission à chaîne | | |

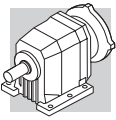
En fonction du point d'application de la charge sur l'arbre, la vérification de la compatibilité sera différente, plus particulièrement:

(B 18)



(B 19)





a) Application au milieu, tab. (B18)

La charge précédemment calculée doit être comparée avec la valeur nominale correspondante indiquée dans le catalogue, on doit vérifier :

$$R_{c1} \leq R_{n1} \quad [\text{arbre rapide}]$$

ou

$$R_{c2} \leq R_{n2} \quad [\text{arbre lent}]$$

b) Application déplacée du milieu, tab. (B19)

L'application de la charge à une distance "x" de la butée de l'arbre implique un nouveau calcul de la valeur admissible à cette distance.

La nouvelle valeur est indiquée par les symboles R_{x1} (entrée) et R_{x2} (sortie) ou peut être calculée d'après les valeurs de catalogue, respectivement R_{n1} et R_{n2} , en élaborant le facteur :

$$\frac{a}{b+x} \quad (16)$$

(B 20)

| | Constantes du réducteur | | | | | |
|--------------------------|-------------------------|------|------|--------------|------|------|
| | Arbre lent | | | Arbre rapide | | |
| | a | b | c | a | b | c |
| C 05 2 | 38 | 18 | 250 | — | — | — |
| C 12 2 | 46 | 26 | 450 | 21 | 1 | 300 |
| C 22 2 | 53 | 28 | 550 | 40 | 20 | 350 |
| C 22 3 | 53 | 28 | 550 | 21 | 1 | 300 |
| C 32 2 | 60.5 | 30.5 | 750 | 41.5 | 21.5 | 350 |
| C 32 3 | 60.5 | 30.5 | 750 | 21 | 1 | 300 |
| C 36 2 - C 36 3 | 69.5 | 34.5 | 800 | 51.5 | 26.5 | 450 |
| C 36 4 | 69.5 | 34.5 | 800 | 21 | 1 | 300 |
| C 41 2 - C 41 3 | 69.5 | 34.5 | 850 | 51.5 | 26.5 | 450 |
| C 41 4 | 69.5 | 34.5 | 850 | 40 | 20 | 350 |
| C 51 2 - C 51 3 | 76.5 | 36.5 | 900 | 51.5 | 26.5 | 450 |
| C 51 4 | 76.5 | 36.5 | 900 | 41.5 | 21.5 | 350 |
| C 61 2 - C 61 3 | 95.5 | 45.5 | 1000 | 57.5 | 27.5 | 450 |
| C 61 4 | 95.5 | 45.5 | 1000 | 51.5 | 26.5 | 450 |
| C 70 2 - C 70 3 | 114 | 54 | 1200 | 86 | 31 | 1000 |
| C 70 4 | 114 | 54 | 1200 | 49.5 | 24.5 | 450 |
| C 80 2 - C 80 3 | 131 | 61 | 1500 | 86 | 31 | 1000 |
| C 80 4 | 131 | 61 | 1500 | 49.5 | 24.5 | 450 |
| C 90 2 - C 90 3 | 161 | 76 | 2000 | 116 | 46 | 1400 |
| C 90 4 | 161 | 76 | 2000 | 49.5 | 24.5 | 450 |
| C 100 2 - C 100 3 | 163.5 | 58.5 | 2500 | 116 | 46 | 1400 |
| C 100 4 | 163.5 | 58.5 | 2500 | 49.5 | 24.5 | 450 |



La procédure de vérification comporte les pas successifs indiqués ici.

ARBRE RAPIDE

1. Calcul de :

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (17)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (18)$$

Ensuite, vérifier que :

$$R_{c1} \leq R_{x1} \quad (19)$$

ARBRE LENT

1. Calcul de :

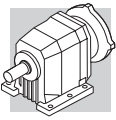
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (20)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (21)$$

Ensuite, vérifier que :

$$R_{c2} \leq R_{x2} \quad (22)$$



24 CHARGES AXIALES, A_{n1} , A_{n2}

Les valeurs de charge axiale admissible sur les arbres rapides [A_{n1}] et lent [A_{n2}] peuvent être calculées, en se référant à la valeur de charge radiale correspondante [R_{n1}] et [R_{n2}] au moyen des formules suivantes :

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0,2 \\ A_{n2} &= R_{n2} \cdot 0,2 \end{aligned} \quad (23)$$

Les valeurs de charge axiale admissible ainsi calculées se réfèrent au cas de forces axiales agissant en même temps que les charges radiales nominales.

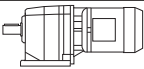



Dans le cas où la valeur de la charge radiale agissant sur l'arbre est nulle, l'on peut considérer la charge axiale admissible [A_n] égale à 50% de la valeur de la charge radiale admissible [R_n] sur le même arbre.

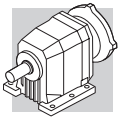
En présence de charges axiales excédant la valeur admissible, ou de forces axiales fortement supérieures aux charges radiales, il est conseillé de contacter le Service Technique Bonfiglioli Riduttori pour une vérification.



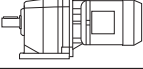



25 DONNEES TECHNIQUES MOTOREDUCTEURS

0.09 kW

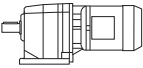



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 1.0 | 760 | 0.8 | 855.5 | 7000 | C414_855.5 S05 M05A6 | 141 | C414_855.5 P63 BN63A6 | 142 |
| 1.2 | 654 | 0.9 | 735.9 | 7000 | C414_735.9 S05 M05A6 | 141 | C414_735.9 P63 BN63A6 | 142 |
| 1.3 | 597 | 1.0 | 671.3 | 7000 | C414_671.3 S05 M05A6 | 141 | C414_671.3 P63 BN63A6 | 142 |
| 1.5 | 511 | 0.9 | 574.7 | 6500 | C364_574.7 S05 M05A6 | 137 | C364_574.7 P63 BN63A6 | 138 |
| 1.6 | 483 | 1.2 | 543.5 | 7000 | C414_543.5 S05 M05A6 | 141 | C414_543.5 P63 BN63A6 | 142 |
| 1.6 | 489 | 0.9 | 848.5 | 6500 | C364_848.5 S0 M0B4 | 137 | | |
| 1.8 | 434 | 1.0 | 754.2 | 6500 | C364_754.2 S0 M0B4 | 137 | | |
| 1.9 | 407 | 1.1 | 458.4 | 6500 | C364_458.4 S05 M05A6 | 137 | C364_458.4 P63 BN63A6 | 138 |
| 2.0 | 400 | 1.5 | 450.2 | 7000 | C414_450.2 S05 M05A6 | 141 | C414_450.2 P63 BN63A6 | 142 |
| 2.0 | 384 | 1.2 | 665.9 | 6500 | C364_665.9 S0 M0B4 | 137 | | |
| 2.3 | 331 | 1.4 | 574.7 | 6500 | C364_574.7 S0 M0B4 | 137 | | |
| 2.6 | 301 | 1.5 | 341.7 | 6500 | C364_341.7 S05 M05A6 | 137 | C364_341.7 P63 BN63A6 | 138 |
| 2.6 | 296 | 2.0 | 333.4 | 7000 | C414_333.4 S05 M05A6 | 141 | C414_333.4 P63 BN63A6 | 142 |
| 2.6 | 298 | 1.5 | 517.2 | 6500 | C364_517.2 S0 M0B4 | 137 | | |
| 2.9 | 264 | 1.7 | 458.4 | 6500 | C364_458.4 S0 M0B4 | 137 | | |
| 3.2 | 250 | 1.1 | 274.7 | 5500 | C323_274.7 S05 M05A6 | 133 | C323_274.7 P63 BN63A6 | 134 |
| 3.2 | 242 | 1.9 | 420.2 | 6500 | C364_420.2 S0 M0B4 | 137 | | |
| 3.6 | 218 | 2.1 | 377.9 | 6500 | C364_377.9 S0 M0B4 | 137 | | |
| 3.9 | 205 | 1.0 | 225.8 | 5000 | C223_225.8 S05 M05A6 | 129 | C223_225.8 P63 BN63A6 | 130 |
| 4.0 | 197 | 2.3 | 341.7 | 6500 | C364_341.7 S0 M0B4 | 137 | | |
| 4.1 | 196 | 1.5 | 215.6 | 5500 | C323_215.6 S05 M05A6 | 133 | C323_215.6 P63 BN63A6 | 134 |
| 4.2 | 184 | 2.4 | 318.9 | 6500 | C364_318.9 S0 M0B4 | 137 | | |
| 4.6 | 168 | 2.7 | 290.9 | 6500 | C364_290.9 S0 M0B4 | 137 | | |
| 4.9 | 162 | 1.2 | 178.5 | 5000 | C223_178.5 S05 M05A6 | 129 | C223_178.5 P63 BN63A6 | 130 |
| 4.9 | 163 | 1.6 | 274.7 | 5500 | C323_274.7 S0 M0B4 | 133 | | |
| 5.2 | 155 | 1.0 | 261.0 | 5000 | C223_261.0 S0 M0B4 | 129 | | |
| 5.3 | 147 | 3.1 | 255.0 | 6500 | C364_255.0 S0 M0B4 | 137 | | |
| 5.5 | 145 | 1.8 | 244.2 | 5500 | C323_244.2 S0 M0B4 | 133 | | |
| 5.8 | 138 | 1.5 | 151.7 | 5000 | C223_151.7 S05 M05A6 | 129 | C223_151.7 P63 BN63A6 | 130 |
| 5.9 | 135 | 2.2 | 148.4 | 5500 | C323_148.4 S05 M05A6 | 133 | C323_148.4 P63 BN63A6 | 134 |
| 6.0 | 134 | 1.4 | 225.8 | 5000 | C223_225.8 S0 M0B4 | 129 | | |
| 6.3 | 128 | 2.3 | 215.6 | 5500 | C323_215.6 S0 M0B4 | 133 | | |
| 6.7 | 119 | 1.6 | 200.7 | 5000 | C223_200.7 S0 M0B4 | 129 | | |
| 7.2 | 111 | 1.8 | 122.2 | 5000 | C223_122.2 S05 M05A6 | 129 | C223_122.2 P63 BN63A6 | 130 |
| 7.2 | 111 | 2.7 | 122.4 | 5500 | C323_122.4 S05 M05A6 | 133 | C323_122.4 P63 BN63A6 | 134 |
| 7.3 | 111 | 2.7 | 186.0 | 5500 | C323_186.0 S0 M0B4 | 133 | | |
| 7.6 | 106 | 1.9 | 178.5 | 5000 | C223_178.5 S0 M0B4 | 129 | | |
| 7.9 | 102 | 2.0 | 112.0 | 5000 | C223_112.0 S05 M05A6 | 129 | C223_112.0 P63 BN63A6 | 130 |
| 8.1 | 100 | 3.0 | 167.4 | 5500 | C323_167.4 S0 M0B4 | 133 | | |
| 8.8 | 91 | 2.2 | 100.2 | 5000 | C223_100.2 S05 M05A6 | 129 | C223_100.2 P63 BN63A6 | 130 |
| 8.9 | 90 | 2.2 | 151.7 | 5000 | C223_151.7 S0 M0B4 | 129 | | |
| 9.9 | 81 | 2.5 | 136.5 | 5000 | C223_136.5 S0 M0B4 | 129 | | |
| 10.7 | 75 | 2.7 | 82.6 | 5000 | C223_82.6 S05 M05A6 | 129 | C223_82.6 P63 BN63A6 | 130 |
| 11.0 | 73 | 2.8 | 122.2 | 5000 | C223_122.2 S0 M0B4 | 129 | | |
| 12.1 | 67 | 3.0 | 112.0 | 5000 | C223_112.0 S0 M0B4 | 129 | | |
| 13.3 | 61 | 1.5 | 66.2 | 2000 | C122_66.2 S05 M05A6 | 125 | C122_66.2 P63 BN63A6 | 126 |
| 16.0 | 51 | 1.8 | 55.2 | 2000 | C122_55.2 S05 M05A6 | 125 | C122_55.2 P63 BN63A6 | 126 |
| 18.5 | 44 | 2.0 | 47.6 | 2000 | C122_47.6 S05 M05A6 | 125 | C122_47.6 P63 BN63A6 | 126 |
| 19.7 | 42 | 1.1 | 44.7 | 1170 | C052_44.7 S05 M05A6 | 124 | | |



0.09 kW

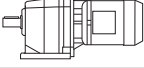




| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 20.4 | 40 | 2.2 | 66.2 | 2000 | C122_66.2 S0 M0B4 | 125 | | |
| 20.8 | 39 | 2.3 | 42.3 | 2000 | C122_42.3 S05 M05A6 | 125 | C122_42.3 P63 BN63A6 | 126 |
| 21.8 | 38 | 1.2 | 40.3 | 1150 | C052_40.3 S05 M05A6 | 124 | | |
| 23.8 | 34 | 2.6 | 37.0 | 2000 | C122_37.0 S05 M05A6 | 125 | C122_37.0 P63 BN63A6 | 126 |
| 24.2 | 34 | 1.3 | 36.4 | 1140 | C052_36.4 S05 M05A6 | 124 | | |
| 24.5 | 34 | 2.7 | 55.2 | 2000 | C122_55.2 S0 M0B4 | 125 | | |
| 26.8 | 31 | 1.5 | 32.8 | 1110 | C052_32.8 S05 M05A6 | 124 | | |
| 26.8 | 31 | 2.9 | 32.8 | 2000 | C122_32.8 S05 M05A6 | 125 | C122_32.8 P63 BN63A6 | 126 |
| 28.4 | 29 | 3.1 | 47.6 | 2000 | C122_47.6 S0 M0B4 | 125 | | |
| 30 | 27 | 1.7 | 44.7 | 1170 | C052_44.7 S0 M0B4 | 124 | | |
| 33 | 25 | 1.8 | 40.3 | 990 | C052_40.3 S0 M0B4 | 124 | | |
| 37 | 22 | 2.0 | 36.4 | 980 | C052_36.4 S0 M0B4 | 124 | | |
| 41 | 20 | 2.3 | 32.8 | 960 | C052_32.8 S0 M0B4 | 124 | | |
| 42 | 19 | 2.3 | 21.0 | 1020 | C052_21.0 S05 M05A6 | 124 | | |
| 50 | 16 | 2.7 | 27.1 | 930 | C052_27.1 S0 M0B4 | 124 | | |
| 56 | 15 | 3.1 | 15.6 | 950 | C052_15.6 S05 M05A6 | 124 | | |
| 66 | 12 | 6.5 | 13.4 | 2000 | C122_13.4 S05 M05A6 | 125 | C122_13.4 P63 BN63A6 | 126 |
| 71 | 12 | 3.9 | 12.5 | 900 | C052_12.5 S05 M05A6 | 124 | | |
| 74 | 11 | 7.0 | 11.9 | 2000 | C122_11.9 S05 M05A6 | 125 | C122_11.9 P63 BN63A6 | 126 |
| 78 | 10 | 4.3 | 11.2 | 880 | C052_11.2 S05 M05A6 | 124 | | |
| 88 | 9 | 7.7 | 10.1 | 2000 | C122_10.1 S05 M05A6 | 125 | C122_10.1 P63 BN63A6 | 126 |
| 95 | 9 | 5.2 | 9.3 | 830 | C052_9.3 S05 M05A6 | 124 | | |
| 100 | 8 | 8.4 | 8.8 | 2000 | C122_8.8 S05 M05A6 | 125 | C122_8.8 P63 BN63A6 | 126 |
| 119 | 7 | 6.5 | 7.4 | 780 | C052_7.4 S05 M05A6 | 124 | | |
| 132 | 6 | 7.3 | 6.7 | 760 | C052_6.7 S05 M05A6 | 124 | | |
| 146 | 6 | 10.9 | 6.2 | 1960 | C122_6.2 S05 M05A6 | 125 | C122_6.2 P63 BN63A6 | 126 |
| 157 | 5 | 11.1 | 5.6 | 1850 | C122_5.6 S05 M05A6 | 125 | C122_5.6 P63 BN63A6 | 126 |
| 159 | 5 | 8.8 | 5.5 | 720 | C052_5.5 S05 M05A6 | 124 | | |
| 187 | 4 | 12.6 | 4.9 | 1810 | C122_4.9 S05 M05A6 | 125 | C122_4.9 P63 BN63A6 | 126 |
| 205 | 4 | 13.0 | 4.3 | 1730 | C122_4.3 S05 M05A6 | 125 | C122_4.3 P63 BN63A6 | 126 |
| 249 | 3 | 15.0 | 3.7 | 1650 | C122_3.7 S05 M05A6 | 125 | C122_3.7 P63 BN63A6 | 126 |
| 275 | 3 | 15.4 | 3.2 | 1580 | C122_3.2 S05 M05A6 | 125 | C122_3.2 P63 BN63A6 | 126 |
| 329 | 2 | 17.3 | 2.8 | 1510 | C122_2.8 S05 M05A6 | 125 | C122_2.8 P63 BN63A6 | 126 |

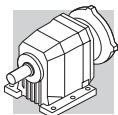
0.12 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 0.98 | 1061 | 0.9 | 884.9 | 10000 | | | C514_884.9 P63 BN63B6 | 146 |
| 1.2 | 860 | 1.2 | 717.7 | 10000 | | | C514_717.7 P63 BN63B6 | 146 |
| 1.5 | 681 | 0.9 | 855.5 | 7000 | C414_855.5 S05 M05A4 | 141 | C414_855.5 P63 BN63A4 | 142 |
| 1.6 | 643 | 1.6 | 808.0 | 10000 | | | C514_808.0 P63 BN63A4 | 146 |
| 1.7 | 621 | 1.0 | 780.4 | 7000 | C414_780.4 S05 M05A4 | 141 | C414_780.4 P63 BN63A4 | 142 |
| 1.8 | 586 | 1.0 | 735.9 | 7000 | C414_735.9 S05 M05A4 | 141 | C414_735.9 P63 BN63A4 | 142 |
| 2.0 | 534 | 1.1 | 671.3 | 7000 | C414_671.3 S05 M05A4 | 141 | C414_671.3 P63 BN63A4 | 142 |
| 2.0 | 509 | 0.9 | 665.9 | 6500 | C364_665.9 S05 M05A4 | 137 | C364_665.9 P63 BN63A4 | 138 |
| 2.2 | 474 | 1.3 | 595.8 | 7000 | C414_595.8 S05 M05A4 | 141 | C414_595.8 P63 BN63A4 | 142 |
| 2.3 | 440 | 1.0 | 574.7 | 6500 | C364_574.7 S05 M05A4 | 137 | C364_574.7 P63 BN63A4 | 138 |

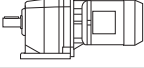





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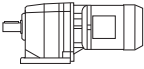



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 2.4 | 433 | 1.4 | 543.5 | 7000 | C414_543.5 S05 M05A4 | 141 | C414_543.5 P63 BN63A4 | 142 |
| 2.6 | 396 | 1.1 | 517.2 | 6500 | C364_517.2 S05 M05A4 | 137 | C364_517.2 P63 BN63A4 | 138 |
| 2.7 | 393 | 1.5 | 493.5 | 7000 | C414_493.5 S05 M05A4 | 141 | C414_493.5 P63 BN63A4 | 142 |
| 2.9 | 351 | 1.3 | 458.4 | 6500 | C364_458.4 S05 M05A4 | 137 | C364_458.4 P63 BN63A4 | 138 |
| 2.9 | 358 | 1.7 | 450.2 | 7000 | C414_450.2 S05 M05A4 | 141 | C414_450.2 P63 BN63A4 | 142 |
| 3.1 | 333 | 1.8 | 418.5 | 7000 | C414_418.5 S05 M05A4 | 141 | C414_418.5 P63 BN63A4 | 142 |
| 3.2 | 321 | 1.4 | 420.2 | 6500 | C364_420.2 S05 M05A4 | 137 | C364_420.2 P63 BN63A4 | 138 |
| 3.4 | 304 | 2.0 | 381.8 | 7000 | C414_381.8 S05 M05A4 | 141 | C414_381.8 P63 BN63A4 | 142 |
| 3.6 | 289 | 1.6 | 377.9 | 6500 | C364_377.9 S05 M05A4 | 137 | C364_377.9 P63 BN63A4 | 138 |
| 3.9 | 265 | 2.3 | 333.4 | 7000 | C414_333.4 S05 M05A4 | 141 | C414_333.4 P63 BN63A4 | 142 |
| 4.0 | 261 | 1.7 | 341.7 | 6500 | C364_341.7 S05 M05A4 | 137 | C364_341.7 P63 BN63A4 | 138 |
| 4.2 | 244 | 1.8 | 318.9 | 6500 | C364_318.9 S05 M05A4 | 137 | C364_318.9 P63 BN63A4 | 138 |
| 4.3 | 242 | 2.5 | 304.2 | 7000 | C414_304.2 S05 M05A4 | 141 | C414_304.2 P63 BN63A4 | 142 |
| 4.6 | 223 | 2.0 | 290.9 | 6500 | C364_290.9 S05 M05A4 | 137 | C364_290.9 P63 BN63A4 | 138 |
| 4.9 | 219 | 0.9 | 178.5 | 5000 | C223_178.5 S05 M05B6 | 129 | C223_178.5 P63 BN63B6 | 130 |
| 4.9 | 217 | 1.2 | 274.7 | 5500 | C323_274.7 S05 M05A4 | 133 | C323_274.7 P63 BN63A4 | 134 |
| 5.0 | 209 | 2.9 | 263.0 | 7000 | C414_263.0 S05 M05A4 | 141 | C414_263.0 P63 BN63A4 | 142 |
| 5.3 | 195 | 2.3 | 255.0 | 6500 | C364_255.0 S05 M05A4 | 137 | C364_255.0 P63 BN63A4 | 138 |
| 5.5 | 193 | 1.3 | 244.2 | 5500 | C323_244.2 S05 M05A4 | 133 | C323_244.2 P63 BN63A4 | 134 |
| 5.8 | 177 | 2.5 | 230.9 | 6500 | C364_230.9 S05 M05A4 | 137 | C364_230.9 P63 BN63A4 | 138 |
| 6.0 | 178 | 1.0 | 225.8 | 5000 | C223_225.8 S05 M05A4 | 129 | C223_225.8 P63 BN63A4 | 130 |
| 6.3 | 170 | 1.8 | 215.6 | 5500 | C323_215.6 S05 M05A4 | 133 | C323_215.6 P63 BN63A4 | 134 |
| 6.5 | 163 | 2.8 | 206.4 | 6500 | C363_206.4 S05 M05A4 | 137 | C363_206.4 P63 BN63A4 | 138 |
| 6.7 | 159 | 1.2 | 200.7 | 5000 | C223_200.7 S05 M05A4 | 129 | C223_200.7 P63 BN63A4 | 130 |
| 7.3 | 147 | 2.0 | 186.0 | 5500 | C323_186.0 S05 M05A4 | 133 | C323_186.0 P63 BN63A4 | 134 |
| 7.4 | 145 | 3.1 | 183.5 | 6500 | C363_183.5 S05 M05A4 | 137 | C363_183.5 P63 BN63A4 | 138 |
| 7.6 | 141 | 1.4 | 178.5 | 5000 | C223_178.5 S05 M05A4 | 129 | C223_178.5 P63 BN63A4 | 130 |
| 8.1 | 132 | 2.3 | 167.4 | 5500 | C323_167.4 S05 M05A4 | 133 | C323_167.4 P63 BN63A4 | 134 |
| 8.9 | 120 | 1.7 | 151.7 | 5000 | C223_151.7 S05 M05A4 | 129 | C223_151.7 P63 BN63A4 | 130 |
| 9.1 | 117 | 2.6 | 148.4 | 5500 | C323_148.4 S05 M05A4 | 133 | C323_148.4 P63 BN63A4 | 134 |
| 9.9 | 108 | 1.9 | 136.5 | 5000 | C223_136.5 S05 M05A4 | 129 | C223_136.5 P63 BN63A4 | 130 |
| 9.9 | 108 | 2.8 | 136.0 | 5500 | C323_136.0 S05 M05A4 | 133 | C323_136.0 P63 BN63A4 | 134 |
| 11.0 | 97 | 3.1 | 122.4 | 5500 | C323_122.4 S05 M05A4 | 133 | C323_122.4 P63 BN63A4 | 134 |
| 11.0 | 97 | 2.1 | 122.2 | 5000 | C223_122.2 S05 M05A4 | 129 | C223_122.2 P63 BN63A4 | 130 |
| 12.1 | 89 | 2.3 | 112.0 | 5000 | C223_112.0 S05 M05A4 | 129 | C223_112.0 P63 BN63A4 | 130 |
| 13.5 | 79 | 2.5 | 100.2 | 5000 | C223_100.2 S05 M05A4 | 129 | C223_100.2 P63 BN63A4 | 130 |
| 15.3 | 70 | 2.9 | 88.5 | 5000 | C223_88.5 S05 M05A4 | 129 | C223_88.5 P63 BN63A4 | 130 |
| 16.3 | 65 | 3.1 | 82.6 | 5000 | C223_82.6 S05 M05A4 | 129 | C223_82.6 P63 BN63A4 | 130 |
| 20.4 | 53 | 1.7 | 66.2 | 2000 | C122_66.2 S05 M05A4 | 125 | C122_66.2 P63 BN63A4 | 126 |
| 21.3 | 51 | 2.5 | 63.3 | 5000 | C222_63.3 S05 M05A4 | 129 | C222_63.3 P63 BN63A4 | 130 |
| 24.5 | 45 | 2.0 | 55.2 | 2000 | C122_55.2 S05 M05A4 | 125 | C122_55.2 P63 BN63A4 | 126 |
| 24.7 | 44 | 3.5 | 54.7 | 5000 | C222_54.7 S05 M05A4 | 129 | C222_54.7 P63 BN63A4 | 130 |
| 28.4 | 38 | 2.3 | 47.6 | 2000 | C122_47.6 S05 M05A4 | 125 | C122_47.6 P63 BN63A4 | 126 |
| 29.3 | 37 | 1.2 | 44.7 | 1010 | C052_44.7 S05 M05A4 | 124 | | |
| 32 | 34 | 2.6 | 42.3 | 2000 | C122_42.3 S05 M05A4 | 125 | C122_42.3 P63 BN63A4 | 126 |
| 33 | 34 | 1.3 | 40.3 | 990 | C052_40.3 S05 M05A4 | 124 | | |
| 36 | 30 | 1.5 | 36.4 | 980 | C052_36.4 S05 M05A4 | 124 | | |
| 36 | 30 | 3.0 | 37.0 | 2000 | C122_37.0 S05 M05A4 | 125 | C122_37.0 P63 BN63A4 | 126 |
| 40 | 27 | 1.6 | 32.8 | 960 | C052_32.8 S05 M05A4 | 124 | | |
| 41 | 26 | 3.4 | 32.8 | 2000 | C122_32.8 S05 M05A4 | 125 | C122_32.8 P63 BN63A4 | 126 |
| 48 | 23 | 2.0 | 27.1 | 930 | C052_27.1 S05 M05A4 | 124 | | |



0.12 kW





| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 56 | 20 | 2.3 | 15.6 | 900 | C052_15.6 S05 M05B6 | 124 | | |
| 62 | 18 | 2.6 | 21.0 | 890 | C052_21.0 S05 M05A4 | 124 | | |
| 69 | 16 | 2.5 | 18.9 | 860 | C052_18.9 S05 M05A4 | 124 | | |
| 78 | 14 | 3.2 | 11.2 | 850 | C052_11.2 S05 M05B6 | 124 | | |
| 84 | 13 | 3.1 | 15.6 | 820 | C052_15.6 S05 M05A4 | 124 | | |
| 105 | 10 | 3.8 | 12.5 | 780 | C052_12.5 S05 M05A4 | 124 | | |
| 117 | 9 | 4.3 | 11.2 | 760 | C052_11.2 S05 M05A4 | 124 | | |
| 130 | 8 | 5.4 | 6.7 | 740 | C052_6.7 S05 M05B6 | 124 | | |
| 141 | 8 | 3.9 | 9.3 | 720 | C052_9.3 S05 M05A4 | 124 | | |
| 177 | 6 | 4.8 | 7.4 | 680 | C052_7.4 S05 M05A4 | 124 | | |
| 196 | 6 | 5.4 | 6.7 | 660 | C052_6.7 S05 M05A4 | 124 | | |

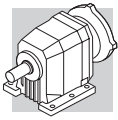
0.18 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 0.66 | 2367 | 1.0 | 1362 | 25000 | | | C704_1362 P71 BN71A6 | 154 |
| 0.84 | 1858 | 1.2 | 1069 | 25000 | | | C704_1069 P71 BN71A6 | 154 |
| 1.2 | 1262 | 1.3 | 726.3 | 16000 | C614_726.3 S1 M1SC6 | 149 | C614_726.3 P71 BN71A6 | 150 |
| 1.3 | 1248 | 0.8 | 717.7 | 10000 | C514_717.7 S1 M1SC6 | 145 | C514_717.7 P71 BN71A6 | 146 |
| 1.5 | 1049 | 1.0 | 884.9 | 10000 | | | C514_884.9 P63 BN63B4 | 146 |
| 1.6 | 958 | 1.0 | 808.0 | 10000 | | | C514_808.0 P63 BN63B4 | 146 |
| 1.6 | 955 | 1.0 | 549.7 | 10000 | C514_549.7 S1 M1SC6 | 145 | C514_549.7 P71 BN71A6 | 146 |
| 1.8 | 861 | 1.9 | 726.3 | 16000 | | | C614_726.3 P63 BN63B4 | 150 |
| 1.8 | 851 | 1.2 | 717.7 | 10000 | | | C514_717.7 P63 BN63B4 | 146 |
| 1.9 | 806 | 1.2 | 463.9 | 10000 | C514_463.9 S1 M1SC6 | 145 | C514_463.9 P71 BN71A6 | 146 |
| 1.9 | 803 | 2.0 | 462.0 | 16000 | C614_462.0 S1 M1SC6 | 149 | C614_462.0 P71 BN71A6 | 150 |
| 2.0 | 796 | 0.8 | 671.3 | 7000 | C414_671.3 S05 M05B4 | 141 | C414_671.3 P63 BN63B4 | 142 |
| 2.0 | 783 | 0.8 | 450.2 | 7000 | C414_450.2 S1 M1SC6 | 141 | C414_450.2 P71 BN71A6 | 142 |
| 2.0 | 777 | 1.3 | 655.4 | 10000 | | | C514_655.4 P63 BN63B4 | 146 |
| 2.2 | 727 | 0.8 | 418.5 | 7000 | C414_418.5 S1 M1SC6 | 141 | C414_418.5 P71 BN71A6 | 142 |
| 2.2 | 723 | 1.4 | 415.7 | 10000 | C514_415.7 S1 M1SC6 | 145 | C514_415.7 P71 BN71A6 | 146 |
| 2.2 | 706 | 0.8 | 595.8 | 7000 | C414_595.8 S05 M05B4 | 141 | C414_595.8 P63 BN63B4 | 142 |
| 2.4 | 660 | 1.5 | 379.6 | 10000 | C514_379.6 S1 M1SC6 | 145 | C514_379.6 P71 BN71A6 | 146 |
| 2.4 | 644 | 0.9 | 543.5 | 7000 | C414_543.5 S05 M05B4 | 141 | C414_543.5 P63 BN63B4 | 142 |
| 2.6 | 587 | 0.8 | 341.7 | 6300 | C364_341.7 S1 M1SC6 | 137 | C364_341.7 P71 BN71A6 | 138 |
| 2.7 | 585 | 1.0 | 493.5 | 7000 | C414_493.5 S05 M05B4 | 141 | C414_493.5 P63 BN63B4 | 142 |
| 2.9 | 534 | 1.1 | 450.2 | 7000 | C414_450.2 S05 M05B4 | 141 | C414_450.2 P63 BN63B4 | 142 |
| 2.9 | 536 | 0.8 | 458.4 | 6500 | C364_458.4 S05 M05B4 | 137 | C364_458.4 P63 BN63B4 | 138 |
| 3.1 | 492 | 0.9 | 420.2 | 6500 | C364_420.2 S05 M05B4 | 137 | C364_420.2 P63 BN63B4 | 138 |
| 3.2 | 496 | 1.2 | 418.5 | 7000 | C414_418.5 S05 M05B4 | 141 | C414_418.5 P63 BN63B4 | 142 |
| 3.5 | 452 | 1.3 | 381.8 | 7000 | C414_381.8 S05 M05B4 | 141 | C414_381.8 P63 BN63B4 | 142 |
| 3.5 | 442 | 1.0 | 377.9 | 6500 | C364_377.9 S05 M05B4 | 137 | C364_377.9 P63 BN63B4 | 138 |
| 3.9 | 400 | 1.1 | 341.7 | 6500 | C364_341.7 S05 M05B4 | 137 | C364_341.7 P63 BN63B4 | 138 |
| 4.0 | 395 | 1.5 | 333.4 | 7000 | C414_333.4 S05 M05B4 | 141 | C414_333.4 P63 BN63B4 | 142 |
| 4.1 | 373 | 1.2 | 318.9 | 6500 | C364_318.9 S05 M05B4 | 137 | C364_318.9 P63 BN63B4 | 138 |
| 4.3 | 371 | 1.6 | 209.1 | 7000 | C413_209.1 S1 M1SC6 | 141 | C413_209.1 P71 BN71A6 | 142 |
| 4.3 | 360 | 1.7 | 304.2 | 7000 | C414_304.2 S05 M05B4 | 141 | C414_304.2 P63 BN63B4 | 142 |
| 4.5 | 340 | 1.3 | 290.9 | 6500 | C364_290.9 S05 M05B4 | 137 | C364_290.9 P63 BN63B4 | 138 |

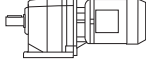





0.18 kW

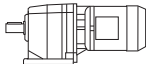



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 4.7 | 339 | 1.8 | 190.8 | 7000 | C413_190.8 S1 M1SC6 | 141 | C413_190.8 P71 BN71A6 | 142 |
| 4.8 | 330 | 0.9 | 186.0 | 5500 | C323_186.0 S1 M1SC6 | 133 | C323_186.0 P71 BN71A6 | 134 |
| 5.0 | 312 | 1.9 | 263.0 | 7000 | C414_263.0 S05 M05B4 | 141 | C414_263.0 P63 BN63B4 | 142 |
| 5.2 | 298 | 1.5 | 255.0 | 6500 | C364_255.0 S05 M05B4 | 137 | C364_255.0 P63 BN63B4 | 138 |
| 5.4 | 297 | 1.0 | 167.4 | 5500 | C323_167.4 S1 M1SC6 | 133 | C323_167.4 P71 BN71A6 | 134 |
| 5.4 | 295 | 0.9 | 244.2 | 5500 | C323_244.2 S05 M05B4 | 133 | C323_244.2 P63 BN63B4 | 134 |
| 5.7 | 270 | 1.7 | 230.9 | 6500 | C364_230.9 S05 M05B4 | 137 | C364_230.9 P63 BN63B4 | 138 |
| 6.1 | 261 | 1.2 | 215.6 | 5500 | C323_215.6 S05 M05B4 | 133 | C323_215.6 P63 BN63B4 | 134 |
| 6.4 | 250 | 1.8 | 206.4 | 6500 | C363_206.4 S05 M05B4 | 137 | C363_206.4 P63 BN63B4 | 138 |
| 7.1 | 225 | 1.3 | 186.0 | 5500 | C323_186.0 S05 M05B4 | 133 | C323_186.0 P63 BN63B4 | 134 |
| 7.2 | 222 | 2.0 | 183.5 | 6500 | C363_183.5 S05 M05B4 | 137 | C363_183.5 P63 BN63B4 | 138 |
| 7.4 | 216 | 0.9 | 178.5 | 5000 | C223_178.5 S05 M05B4 | 129 | C223_178.5 P63 BN63B4 | 130 |
| 7.9 | 202 | 1.5 | 167.4 | 5500 | C323_167.4 S05 M05B4 | 133 | C323_167.4 P63 BN63B4 | 134 |
| 8.1 | 196 | 2.3 | 162.0 | 6500 | C363_162.0 S05 M05B4 | 137 | C363_162.0 P63 BN63B4 | 138 |
| 8.7 | 183 | 1.1 | 151.7 | 5000 | C223_151.7 S05 M05B4 | 129 | C223_151.7 P63 BN63B4 | 130 |
| 8.9 | 179 | 1.7 | 148.4 | 5500 | C323_148.4 S05 M05B4 | 133 | C323_148.4 P63 BN63B4 | 134 |
| 9.4 | 169 | 2.7 | 139.8 | 6500 | C363_139.8 S05 M05B4 | 137 | C363_139.8 P63 BN63B4 | 138 |
| 9.7 | 165 | 1.2 | 136.5 | 5000 | C223_136.5 S05 M05B4 | 129 | C223_136.5 P63 BN63B4 | 130 |
| 9.7 | 164 | 1.8 | 136.0 | 5500 | C323_136.0 S05 M05B4 | 133 | C323_136.0 P63 BN63B4 | 134 |
| 10.5 | 152 | 3.0 | 125.8 | 6500 | C363_125.8 S05 M05B4 | 137 | C363_125.8 P63 BN63B4 | 138 |
| 10.8 | 148 | 2.0 | 122.4 | 5500 | C323_122.4 S05 M05B4 | 133 | C323_122.4 P63 BN63B4 | 134 |
| 10.8 | 148 | 1.4 | 122.2 | 5000 | C223_122.2 S05 M05B4 | 129 | C223_122.2 P63 BN63B4 | 130 |
| 11.8 | 135 | 1.5 | 112.0 | 5000 | C223_112.0 S05 M05B4 | 129 | C223_112.0 P63 BN63B4 | 130 |
| 11.8 | 135 | 3.3 | 111.5 | 6500 | C363_111.5 S05 M05B4 | 137 | C363_111.5 P63 BN63B4 | 138 |
| 11.9 | 134 | 2.2 | 110.6 | 5500 | C323_110.6 S05 M05B4 | 133 | C323_110.6 P63 BN63B4 | 134 |
| 12.8 | 125 | 2.4 | 103.3 | 5500 | C323_103.3 S05 M05B4 | 133 | C323_103.3 P63 BN63B4 | 134 |
| 12.9 | 124 | 3.6 | 102.2 | 6500 | C363_102.2 S05 M05B4 | 137 | C363_102.2 P63 BN63B4 | 138 |
| 13.2 | 121 | 1.7 | 100.2 | 5000 | C223_100.2 S05 M05B4 | 129 | C223_100.2 P63 BN63B4 | 130 |
| 14.0 | 114 | 2.6 | 94.2 | 5500 | C323_94.2 S05 M05B4 | 133 | C323_94.2 P63 BN63B4 | 134 |
| 14.9 | 107 | 1.9 | 88.5 | 5000 | C223_88.5 S05 M05B4 | 129 | C223_88.5 P63 BN63B4 | 130 |
| 16.0 | 100 | 2.0 | 82.6 | 5000 | C223_82.6 S05 M05B4 | 129 | C223_82.6 P63 BN63B4 | 130 |
| 16.0 | 100 | 3.0 | 82.6 | 5500 | C323_82.6 S05 M05B4 | 133 | C323_82.6 P63 BN63B4 | 134 |
| 17.6 | 90 | 2.2 | 74.8 | 5000 | C223_74.8 S05 M05B4 | 129 | C223_74.8 P63 BN63B4 | 130 |
| 17.7 | 90 | 3.2 | 74.7 | 5500 | C323_74.7 S05 M05B4 | 133 | C323_74.7 P63 BN63B4 | 134 |
| 19.8 | 83 | 2.6 | 66.8 | 5500 | C322_66.8 S05 M05B4 | 133 | C322_66.8 P63 BN63B4 | 134 |
| 20.0 | 82 | 1.1 | 66.2 | 2000 | C122_66.2 S05 M05B4 | 125 | C122_66.2 P63 BN63B4 | 126 |
| 20.2 | 79 | 2.5 | 65.3 | 5000 | C223_65.3 S05 M05B4 | 129 | C223_65.3 P63 BN63B4 | 130 |
| 20.9 | 78 | 1.7 | 63.3 | 5000 | C222_63.3 S05 M05B4 | 129 | C222_63.3 P63 BN63B4 | 130 |
| 22.0 | 73 | 2.6 | 60.0 | 5000 | C223_60.0 S05 M05B4 | 129 | C223_60.0 P63 BN63B4 | 130 |
| 22.2 | 73 | 2.9 | 59.4 | 5500 | C322_59.4 S05 M05B4 | 133 | C322_59.4 P63 BN63B4 | 134 |
| 23.9 | 68 | 1.3 | 55.2 | 2000 | C122_55.2 S05 M05B4 | 125 | C122_55.2 P63 BN63B4 | 126 |
| 24.1 | 68 | 2.3 | 54.7 | 5000 | C222_54.7 S05 M05B4 | 129 | C222_54.7 P63 BN63B4 | 130 |
| 27.1 | 60 | 2.6 | 48.6 | 5000 | C222_48.6 S05 M05B4 | 129 | C222_48.6 P63 BN63B4 | 130 |
| 27.7 | 59 | 1.5 | 47.6 | 2000 | C122_47.6 S05 M05B4 | 125 | C122_47.6 P63 BN63B4 | 126 |
| 31 | 53 | 3.6 | 43.3 | 5000 | C222_43.3 S05 M05B4 | 129 | C222_43.3 P63 BN63B4 | 130 |
| 31 | 52 | 1.7 | 42.3 | 2000 | C122_42.3 S05 M05B4 | 125 | C122_42.3 P63 BN63B4 | 126 |
| 33 | 50 | 0.9 | 40.3 | 850 | C052_40.3 S05 M05B4 | 124 | | |
| 36 | 45 | 1.0 | 36.4 | 850 | C052_36.4 S05 M05B4 | 124 | | |
| 36 | 46 | 2.0 | 37.0 | 2000 | C122_37.0 S05 M05B4 | 125 | C122_37.0 P63 BN63B4 | 126 |
| 40 | 40 | 2.2 | 32.8 | 2000 | C122_32.8 S05 M05B4 | 125 | C122_32.8 P63 BN63B4 | 126 |
| 40 | 41 | 1.1 | 32.8 | 840 | C052_32.8 S05 M05B4 | 124 | | |



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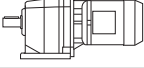




| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 45 | 36 | 2.5 | 29.5 | 2000 | C122_29.5 S05 M05B4 | 125 | C122_29.5 P63 BN63B4 | 126 |
| 49 | 34 | 1.3 | 27.1 | 820 | C052_27.1 S05 M05B4 | 124 | | |
| 52 | 31 | 2.8 | 25.4 | 2000 | C122_25.4 S05 M05B4 | 125 | C122_25.4 P63 BN63B4 | 126 |
| 57 | 29 | 3.0 | 23.2 | 2000 | C122_23.2 S05 M05B4 | 125 | C122_23.2 P63 BN63B4 | 126 |
| 63 | 26 | 1.7 | 21.0 | 810 | C052_21.0 S05 M05B4 | 124 | | |
| 64 | 25 | 3.2 | 20.6 | 2000 | C122_20.6 S05 M05B4 | 125 | C122_20.6 P63 BN63B4 | 126 |
| 70 | 23 | 1.7 | 18.9 | 790 | C052_18.9 S05 M05B4 | 124 | | |
| 72 | 23 | 3.4 | 18.4 | 2000 | C122_18.4 S05 M05B4 | 125 | C122_18.4 P63 BN63B4 | 126 |
| 77 | 21 | 3.6 | 17.2 | 2000 | C122_17.2 S05 M05B4 | 125 | C122_17.2 P63 BN63B4 | 126 |
| 85 | 19 | 2.1 | 15.6 | 760 | C052_15.6 S05 M05B4 | 124 | | |
| 106 | 15 | 2.6 | 12.5 | 740 | C052_12.5 S05 M05B4 | 124 | | |
| 118 | 14 | 2.9 | 11.2 | 720 | C052_11.2 S05 M05B4 | 124 | | |
| 142 | 11 | 2.6 | 9.3 | 690 | C052_9.3 S05 M05B4 | 124 | | |
| 178 | 9 | 3.3 | 7.4 | 650 | C052_7.4 S05 M05B4 | 124 | | |
| 197 | 8 | 3.6 | 6.7 | 640 | C052_6.7 S05 M05B4 | 124 | | |
| 229 | 7 | 7.4 | 11.9 | 1670 | C122_11.9 S05 M05A2 | 125 | C122_11.9 P63 BN63A2 | 126 |
| 240 | 7 | 4.4 | 5.5 | 600 | C052_5.5 S05 M05B4 | 124 | | |
| 268 | 6 | 8.1 | 10.1 | 1600 | C122_10.1 S05 M05A2 | 125 | C122_10.1 P63 BN63A2 | 126 |
| 310 | 5 | 8.9 | 8.8 | 1530 | C122_8.8 S05 M05A2 | 125 | C122_8.8 P63 BN63A2 | 126 |
| 354 | 5 | 9.8 | 7.6 | 1470 | C122_7.6 S05 M05A2 | 125 | C122_7.6 P63 BN63A2 | 126 |
| 440 | 4 | 11.3 | 6.2 | 1390 | C122_6.2 S05 M05A2 | 125 | C122_6.2 P63 BN63A2 | 126 |
| 488 | 3 | 11.9 | 5.6 | 1300 | C122_5.6 S05 M05A2 | 125 | C122_5.6 P63 BN63A2 | 126 |
| 577 | 3 | 13.4 | 4.9 | 1250 | C122_4.9 S05 M05A2 | 125 | C122_4.9 P63 BN63A2 | 126 |
| 635 | 3 | 14.0 | 4.3 | 1190 | C122_4.3 S05 M05A2 | 125 | C122_4.3 P63 BN63A2 | 126 |
| 770 | 2 | 16.0 | 3.7 | 1140 | C122_3.7 S05 M05A2 | 125 | C122_3.7 P63 BN63A2 | 126 |
| 853 | 2 | 16.7 | 3.2 | 1090 | C122_3.2 S05 M05A2 | 125 | C122_3.2 P63 BN63A2 | 126 |
| 1015 | 2 | 18.7 | 2.8 | 1040 | C122_2.8 S05 M05A2 | 125 | C122_2.8 P63 BN63A2 | 126 |

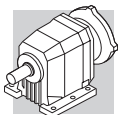
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| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 0.61 | 3575 | 1.1 | 1481 | 35000 | | | C804_1481 P71 BN71B6 | 157 |
| 0.77 | 2820 | 1.4 | 1168 | 35000 | | | C804_1168 P71 BN71B6 | 157 |
| 1.2 | 1753 | 0.9 | 726.3 | 16000 | C614_726.3 S1 M1SD6 | 149 | C614_726.3 P71 BN71B6 | 150 |
| 1.6 | 1330 | 0.8 | 808.0 | 10000 | | | C514_808.0 P63 BN63C4 | 146 |
| 1.6 | 1327 | 0.8 | 549.7 | 10000 | C514_549.7 S1 M1SD6 | 145 | C514_549.7 P71 BN71B6 | 146 |
| 1.9 | 1134 | 0.9 | 717.7 | 10000 | | | C514_717.7 P71 BN71A4 | 146 |
| 1.9 | 1120 | 0.9 | 463.9 | 10000 | C514_463.9 S1 M1SD6 | 145 | C514_463.9 P71 BN71B6 | 146 |
| 2.0 | 1101 | 1.5 | 668.8 | 16000 | | | C614_668.8 P63 BN63C4 | 150 |
| 2.4 | 894 | 1.8 | 370.1 | 16000 | C614_370.1 S1 M1SD6 | 149 | C614_370.1 P71 BN71B6 | 150 |
| 2.5 | 869 | 1.2 | 549.7 | 10000 | | | C514_549.7 P71 BN71A4 | 146 |
| 2.9 | 741 | 0.8 | 450.2 | 7000 | C414_450.2 S05 M05C4 | 141 | C414_450.2 P71 BN71A4 | 142 |
| 3.2 | 689 | 0.9 | 418.5 | 7000 | C414_418.5 S05 M05C4 | 141 | C414_418.5 P71 BN71A4 | 142 |
| 3.2 | 684 | 1.5 | 415.7 | 10000 | | | C514_415.7 P71 BN71A4 | 146 |
| 3.5 | 628 | 1.0 | 381.8 | 7000 | C414_381.8 S05 M05C4 | 141 | C414_381.8 P71 BN71A4 | 142 |
| 3.5 | 625 | 1.6 | 379.6 | 10000 | | | C514_379.6 P71 BN71A4 | 146 |
| 3.8 | 567 | 0.8 | 344.3 | 6500 | C364_344.3 S05 M05C4 | 137 | C364_344.3 P71 BN71A4 | 138 |
| 4.0 | 549 | 1.1 | 333.4 | 7000 | C414_333.4 S05 M05C4 | 141 | C414_333.4 P71 BN71A4 | 142 |

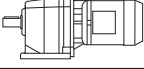





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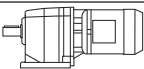



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 4.0 | 537 | 1.9 | 326.1 | 10000 | | | C514_326.1 P71 BN71A4 | 146 |
| 4.2 | 511 | 0.9 | 318.9 | 6500 | C364_318.9 S05 M05C4 | 137 | C364_318.9 P71 BN71A4 | 138 |
| 4.3 | 501 | 1.2 | 304.2 | 7000 | C414_304.2 S05 M05C4 | 141 | C414_304.2 P71 BN71A4 | 142 |
| 4.4 | 490 | 2.0 | 297.8 | 10000 | | | C514_297.8 P71 BN71A4 | 146 |
| 4.6 | 466 | 1.0 | 290.9 | 6500 | C364_290.9 S05 M05C4 | 137 | C364_290.9 P71 BN71A4 | 138 |
| 5.0 | 434 | 2.3 | 263.8 | 10000 | | | C514_263.8 P71 BN71A4 | 146 |
| 5.0 | 433 | 1.4 | 263.0 | 7000 | C414_263.0 S05 M05C4 | 141 | C414_263.0 P71 BN71A4 | 142 |
| 5.3 | 409 | 1.1 | 255.0 | 6500 | C364_255.0 S05 M05C4 | 137 | C364_255.0 P71 BN71A4 | 138 |
| 5.5 | 395 | 1.5 | 239.9 | 7000 | C414_239.9 S05 M05C4 | 141 | C414_239.9 P71 BN71A4 | 142 |
| 5.8 | 370 | 1.2 | 230.9 | 6500 | C364_230.9 S05 M05C4 | 137 | C364_230.9 P71 BN71A4 | 138 |
| 6.3 | 350 | 2.9 | 216.7 | 10000 | | | C513_216.7 P71 BN71A4 | 146 |
| 6.5 | 342 | 1.3 | 206.4 | 6500 | C363_206.4 S05 M05C4 | 137 | C363_206.4 P71 BN71A4 | 138 |
| 7.2 | 308 | 1.9 | 190.8 | 7000 | | | C413_190.8 P71 BN71A4 | 142 |
| 7.2 | 308 | 1.0 | 186.0 | 5500 | C323_186.0 S05 M05C4 | 133 | C323_186.0 P71 BN71A4 | 134 |
| 7.3 | 304 | 1.5 | 183.5 | 6500 | C363_183.5 S05 M05C4 | 137 | C363_183.5 P71 BN71A4 | 138 |
| 8.0 | 277 | 1.1 | 167.4 | 5500 | C323_167.4 S05 M05C4 | 133 | C323_167.4 P71 BN71A4 | 134 |
| 8.3 | 268 | 1.7 | 162.0 | 6500 | C363_162.0 S05 M05C4 | 137 | C363_162.0 P71 BN71A4 | 138 |
| 8.4 | 265 | 2.3 | 164.1 | 7000 | | | C413_164.1 P71 BN71A4 | 142 |
| 9.0 | 246 | 1.2 | 148.4 | 5500 | C323_148.4 S05 M05C4 | 133 | C323_148.4 P71 BN71A4 | 134 |
| 9.6 | 231 | 1.9 | 139.8 | 6500 | C363_139.8 S05 M05C4 | 137 | C363_139.8 P71 BN71A4 | 138 |
| 9.8 | 226 | 0.9 | 136.5 | 5000 | C223_136.5 S05 M05C4 | 129 | C223_136.5 P71 BN71A4 | 130 |
| 9.9 | 225 | 1.3 | 136.0 | 5500 | C323_136.0 S05 M05C4 | 133 | C323_136.0 P71 BN71A4 | 134 |
| 10.3 | 215 | 2.8 | 132.9 | 7000 | | | C413_132.9 P71 BN71A4 | 142 |
| 10.7 | 208 | 2.2 | 125.8 | 6500 | C363_125.8 S05 M05C4 | 137 | C363_125.8 P71 BN71A4 | 138 |
| 11.0 | 203 | 1.5 | 122.4 | 5500 | C323_122.4 S05 M05C4 | 133 | C323_122.4 P71 BN71A4 | 134 |
| 11.0 | 202 | 1.0 | 122.2 | 5000 | C223_122.2 S05 M05C4 | 129 | C223_122.2 P71 BN71A4 | 130 |
| 12.0 | 185 | 1.1 | 112.0 | 5000 | C223_112.0 S05 M05C4 | 129 | C223_112.0 P71 BN71A4 | 130 |
| 12.0 | 185 | 2.4 | 111.5 | 6500 | C363_111.5 S05 M05C4 | 137 | C363_111.5 P71 BN71A4 | 138 |
| 12.1 | 183 | 1.6 | 110.6 | 5500 | C323_110.6 S05 M05C4 | 133 | C323_110.6 P71 BN71A4 | 134 |
| 13.0 | 171 | 1.8 | 103.3 | 5500 | C323_103.3 S05 M05C4 | 133 | C323_103.3 P71 BN71A4 | 134 |
| 13.1 | 169 | 2.7 | 102.2 | 6500 | C363_102.2 S05 M05C4 | 137 | C363_102.2 P71 BN71A4 | 138 |
| 13.4 | 166 | 1.2 | 100.2 | 5000 | C223_100.2 S05 M05C4 | 129 | C223_100.2 P71 BN71A4 | 130 |
| 14.2 | 156 | 1.9 | 94.2 | 5500 | C323_94.2 S05 M05C4 | 133 | C323_94.2 P71 BN71A4 | 134 |
| 14.6 | 152 | 3.0 | 91.9 | 6500 | C363_91.9 S05 M05C4 | 137 | C363_91.9 P71 BN71A4 | 138 |
| 15.1 | 147 | 1.4 | 88.5 | 5000 | C223_88.5 S05 M05C4 | 129 | C223_88.5 P71 BN71A4 | 130 |
| 16.2 | 137 | 1.5 | 82.6 | 5000 | C223_82.6 S05 M05C4 | 129 | C223_82.6 P71 BN71A4 | 130 |
| 16.2 | 137 | 2.2 | 82.6 | 5500 | C323_82.6 S05 M05C4 | 133 | C323_82.6 P71 BN71A4 | 134 |
| 17.9 | 124 | 1.6 | 74.8 | 5000 | C223_74.8 S05 M05C4 | 129 | C223_74.8 P71 BN71A4 | 130 |
| 17.9 | 124 | 2.3 | 74.7 | 5500 | C323_74.7 S05 M05C4 | 133 | C323_74.7 P71 BN71A4 | 134 |
| 20.1 | 113 | 1.9 | 66.8 | 5500 | C322_66.8 S05 M05C4 | 133 | C322_66.8 P71 BN71A4 | 134 |
| 20.3 | 112 | 0.8 | 66.2 | 2000 | C122_66.2 S05 M05C4 | 125 | C122_66.2 P71 BN71A4 | 126 |
| 20.5 | 108 | 1.8 | 65.3 | 5000 | C223_65.3 S05 M05C4 | 129 | C223_65.3 P71 BN71A4 | 130 |
| 21.2 | 107 | 1.2 | 63.3 | 5000 | C222_63.3 S05 M05C4 | 129 | C222_63.3 P71 BN71A4 | 130 |
| 22.3 | 99 | 1.9 | 60.0 | 5000 | C223_60.0 S05 M05C4 | 129 | C223_60.0 P71 BN71A4 | 130 |
| 22.6 | 100 | 2.1 | 59.4 | 5500 | C322_59.4 S05 M05C4 | 133 | C322_59.4 P71 BN71A4 | 134 |
| 24.3 | 93 | 1.0 | 55.2 | 2000 | C122_55.2 S05 M05C4 | 125 | C122_55.2 P71 BN71A4 | 126 |
| 24.5 | 93 | 1.7 | 54.7 | 5000 | C222_54.7 S05 M05C4 | 129 | C222_54.7 P71 BN71A4 | 130 |
| 25.6 | 89 | 3.4 | 52.4 | 5500 | C322_52.4 S05 M05C4 | 133 | C322_52.4 P71 BN71A4 | 134 |
| 27.5 | 82 | 1.9 | 48.6 | 5000 | C222_48.6 S05 M05C4 | 129 | C222_48.6 P71 BN71A4 | 130 |
| 28.1 | 80 | 1.1 | 47.6 | 2000 | C122_47.6 S05 M05C4 | 125 | C122_47.6 P71 BN71A4 | 126 |
| 31 | 73 | 2.6 | 43.3 | 4750 | C222_43.3 S05 M05C4 | 129 | C222_43.3 P71 BN71A4 | 130 |



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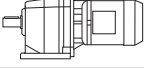




| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|------|------|---------------|---|--|---|---|
| 32 | 72 | 1.3 | 42.3 | 2000 | C122_42.3 S05 M05C4 | 125 | C122_42.3 P71 BN71A4 | 126 |
| 36 | 63 | 1.4 | 37.0 | 2000 | C122_37.0 S05 M05C4 | 125 | C122_37.0 P71 BN71A4 | 126 |
| 36 | 62 | 3.2 | 36.8 | 4540 | C222_36.8 S05 M05C4 | 129 | C222_36.8 P71 BN71A4 | 130 |
| 40 | 56 | 3.6 | 33.1 | 4500 | C222_33.1 S05 M05C4 | 129 | C222_33.1 P71 BN71A4 | 130 |
| 41 | 55 | 1.6 | 32.8 | 2000 | C122_32.8 S05 M05C4 | 125 | C122_32.8 P71 BN71A4 | 126 |
| 45 | 50 | 1.8 | 29.5 | 2000 | C122_29.5 S05 M05C4 | 125 | C122_29.5 P71 BN71A4 | 126 |
| 49 | 47 | 1.0 | 27.1 | 700 | C052_27.1 S05 M05C4 | 124 | | |
| 53 | 43 | 2.1 | 25.4 | 2000 | C122_25.4 S05 M05C4 | 125 | C122_25.4 P71 BN71A4 | 126 |
| 58 | 39 | 2.2 | 23.2 | 2000 | C122_23.2 S05 M05C4 | 125 | C122_23.2 P71 BN71A4 | 126 |
| 63 | 36 | 1.2 | 21.0 | 720 | C052_21.0 S05 M05C4 | 124 | | |
| 65 | 35 | 2.4 | 20.6 | 2000 | C122_20.6 S05 M05C4 | 125 | C122_20.6 P71 BN71A4 | 126 |
| 70 | 33 | 1.2 | 18.9 | 710 | C052_18.9 S05 M05C4 | 124 | | |
| 73 | 31 | 2.5 | 18.4 | 2000 | C122_18.4 S05 M05C4 | 125 | C122_18.4 P71 BN71A4 | 126 |
| 78 | 29 | 2.6 | 17.2 | 2000 | C122_17.2 S05 M05C4 | 125 | C122_17.2 P71 BN71A4 | 126 |
| 85 | 27 | 1.5 | 15.6 | 700 | C052_15.6 S05 M05C4 | 124 | | |
| 87 | 26 | 2.8 | 15.4 | 2000 | C122_15.4 S05 M05C4 | 125 | C122_15.4 P71 BN71A4 | 126 |
| 100 | 23 | 3.1 | 13.4 | 2000 | C122_13.4 S05 M05C4 | 125 | C122_13.4 P71 BN71A4 | 126 |
| 106 | 22 | 1.9 | 12.5 | 690 | C052_12.5 S05 M05C4 | 124 | | |
| 113 | 20 | 3.3 | 11.9 | 2000 | C122_11.9 S05 M05C4 | 125 | C122_11.9 P71 BN71A4 | 126 |
| 118 | 19 | 2.1 | 11.2 | 670 | C052_11.2 S05 M05C4 | 124 | | |
| 133 | 17 | 3.7 | 10.1 | 1980 | C122_10.1 S05 M05C4 | 125 | C122_10.1 P71 BN71A4 | 126 |
| 142 | 16 | 1.9 | 9.3 | 650 | C052_9.3 S05 M05C4 | 124 | | |
| 157 | 14 | 4.2 | 17.2 | 1870 | C122_17.2 S05 M05B2 | 125 | C122_17.2 P63 BN63B2 | 126 |
| 178 | 13 | 2.4 | 7.4 | 620 | C052_7.4 S05 M05C4 | 124 | | |
| 197 | 12 | 2.6 | 6.7 | 610 | C052_6.7 S05 M05C4 | 124 | | |
| 204 | 11 | 5.0 | 13.4 | 1710 | C122_13.4 S05 M05B2 | 125 | C122_13.4 P63 BN63B2 | 126 |
| 230 | 10 | 5.4 | 11.9 | 1660 | C122_11.9 S05 M05B2 | 125 | C122_11.9 P63 BN63B2 | 126 |
| 240 | 9 | 3.2 | 5.5 | 580 | C052_5.5 S05 M05C4 | 124 | | |
| 268 | 8 | 5.8 | 10.1 | 1590 | C122_10.1 S05 M05B2 | 125 | C122_10.1 P63 BN63B2 | 126 |
| 311 | 7 | 6.5 | 8.8 | 1510 | C122_8.8 S05 M05B2 | 125 | C122_8.8 P63 BN63B2 | 126 |
| 354 | 6 | 7.0 | 7.6 | 1460 | C122_7.6 S05 M05B2 | 125 | C122_7.6 P63 BN63B2 | 126 |
| 442 | 5 | 8.2 | 6.2 | 1350 | C122_6.2 S05 M05B2 | 125 | C122_6.2 P63 BN63B2 | 126 |
| 489 | 5 | 8.6 | 5.6 | 1290 | C122_5.6 S05 M05B2 | 125 | C122_5.6 P63 BN63B2 | 126 |
| 577 | 4 | 9.7 | 4.9 | 1240 | C122_4.9 S05 M05B2 | 125 | C122_4.9 P63 BN63B2 | 126 |
| 637 | 4 | 10.1 | 4.3 | 1180 | C122_4.3 S05 M05B2 | 125 | C122_4.3 P63 BN63B2 | 126 |
| 770 | 3 | 11.5 | 3.7 | 1130 | C122_3.7 S05 M05B2 | 125 | C122_3.7 P63 BN63B2 | 126 |
| 856 | 3 | 12.1 | 3.2 | 1080 | C122_3.2 S05 M05B2 | 125 | C122_3.2 P63 BN63B2 | 126 |
| 979 | 2 | 13.0 | 2.8 | 1030 | C122_2.8 S05 M05B2 | 125 | C122_2.8 P63 BN63B2 | 126 |

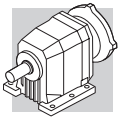
0.37 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 0.73 | 4382 | 1.6 | 1240 | 60000 | C904_1240 S1 M1LA6 | 159 | C904_1240 P80 BN80A6 | 160 |
| 0.78 | 4127 | 1.0 | 1168 | 35000 | | | C804_1168 P80 BN80A6 | 157 |
| 0.93 | 3476 | 1.2 | 1481 | 35000 | | | C804_1481 P71 BN71B4 | 157 |
| 1.2 | 2741 | 1.5 | 1168 | 35000 | | | C804_1168 P71 BN71B4 | 157 |
| 1.4 | 2220 | 1.8 | 945.7 | 35000 | | | C804_945.7 P71 BN71B4 | 157 |
| 1.5 | 2165 | 1.1 | 922.6 | 25000 | | | C704_922.6 P71 BN71B4 | 154 |

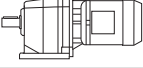





0.37 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 1.7 | 1869 | 0.9 | 796.1 | 16000 | C614_796.1 S1 M1SD4 | 149 | C614_796.1 P71 BN71B4 | 150 |
| 2.0 | 1570 | 1.0 | 668.8 | 16000 | C614_668.8 S1 M1SD4 | 149 | C614_668.8 P71 BN71B4 | 150 |
| 2.1 | 1543 | 1.5 | 657.3 | 25000 | | | C704_657.3 P71 BN71B4 | 154 |
| 2.4 | 1341 | 1.2 | 571.2 | 16000 | C614_571.2 S1 M1SD4 | 149 | C614_571.2 P71 BN71B4 | 150 |
| 2.5 | 1302 | 1.8 | 554.7 | 25000 | | | C704_554.7 P71 BN71B4 | 154 |
| 2.5 | 1290 | 0.8 | 549.7 | 10000 | C514_549.7 S1 M1SD4 | 145 | C514_549.7 P71 BN71B4 | 146 |
| 2.6 | 1223 | 1.3 | 521.1 | 16000 | C614_521.1 S1 M1SD4 | 149 | C614_521.1 P71 BN71B4 | 150 |
| 3.3 | 989 | 1.6 | 421.5 | 16000 | C614_421.5 S1 M1SD4 | 149 | C614_421.5 P71 BN71B4 | 150 |
| 3.3 | 976 | 1.0 | 415.7 | 10000 | C514_415.7 S1 M1SD4 | 145 | C514_415.7 P71 BN71B4 | 146 |
| 3.3 | 961 | 2.4 | 409.4 | 25000 | | | C704_409.4 P71 BN71B4 | 154 |
| 3.6 | 891 | 1.1 | 379.6 | 10000 | C514_379.6 S1 M1SD4 | 145 | C514_379.6 P71 BN71B4 | 146 |
| 3.7 | 869 | 1.8 | 370.1 | 16000 | C614_370.1 S1 M1SD4 | 149 | C614_370.1 P71 BN71B4 | 150 |
| 4.1 | 793 | 2.0 | 337.7 | 16000 | C614_337.7 S1 M1SD4 | 149 | C614_337.7 P71 BN71B4 | 150 |
| 4.1 | 783 | 0.8 | 333.4 | 7000 | C414_333.4 S1 M1SD4 | 141 | C414_333.4 P71 BN71B4 | 142 |
| 4.2 | 765 | 1.3 | 326.1 | 10000 | C514_326.1 S1 M1SD4 | 145 | C514_326.1 P71 BN71B4 | 146 |
| 4.6 | 699 | 1.4 | 297.8 | 10000 | C514_297.8 S1 M1SD4 | 145 | C514_297.8 P71 BN71B4 | 146 |
| 5.2 | 619 | 1.6 | 263.8 | 10000 | C514_263.8 S1 M1SD4 | 145 | C514_263.8 P71 BN71B4 | 146 |
| 5.2 | 617 | 1.0 | 263.0 | 7000 | C414_263.0 S1 M1SD4 | 141 | C414_263.0 P71 BN71B4 | 142 |
| 5.9 | 540 | 0.8 | 230.9 | 6300 | C364_230.9 S1 M1SD4 | 137 | C364_230.9 P71 BN71B4 | 138 |
| 6.3 | 520 | 1.9 | 216.7 | 10000 | C513_216.7 S1 M1SD4 | 145 | C513_216.7 P71 BN71B4 | 146 |
| 6.6 | 502 | 1.2 | 209.1 | 7000 | C413_209.1 S1 M1SD4 | 141 | C413_209.1 P71 BN71B4 | 142 |
| 6.6 | 499 | 0.9 | 206.4 | 6500 | C363_206.4 S1 M1SD4 | 137 | C363_206.4 P71 BN71B4 | 138 |
| 6.9 | 475 | 2.1 | 197.9 | 10000 | C513_197.9 S1 M1SD4 | 145 | C513_197.9 P71 BN71B4 | 146 |
| 7.2 | 458 | 1.3 | 190.8 | 7000 | C413_190.8 S1 M1SD4 | 141 | C413_190.8 P71 BN71B4 | 142 |
| 7.5 | 444 | 1.0 | 183.5 | 6500 | C363_183.5 S1 M1SD4 | 137 | C363_183.5 P71 BN71B4 | 138 |
| 7.6 | 431 | 1.4 | 179.9 | 7000 | C413_179.9 S1 M1SD4 | 141 | C413_179.9 P71 BN71B4 | 142 |
| 7.8 | 422 | 2.4 | 175.8 | 10000 | C513_175.8 S1 M1SD4 | 145 | C513_175.8 P71 BN71B4 | 146 |
| 8.3 | 394 | 1.5 | 164.1 | 7000 | C413_164.1 S1 M1SD4 | 141 | C413_164.1 P71 BN71B4 | 142 |
| 8.5 | 385 | 2.6 | 160.5 | 10000 | C513_160.5 S1 M1SD4 | 145 | C513_160.5 P71 BN71B4 | 146 |
| 8.5 | 392 | 1.1 | 162.0 | 6500 | C363_162.0 S1 M1SD4 | 137 | C363_162.0 P71 BN71B4 | 138 |
| 9.4 | 349 | 1.7 | 145.6 | 7000 | C413_145.6 S1 M1SD4 | 141 | C413_145.6 P71 BN71B4 | 142 |
| 9.8 | 338 | 1.3 | 139.8 | 6500 | C363_139.8 S1 M1SD4 | 137 | C363_139.8 P71 BN71B4 | 138 |
| 10.1 | 329 | 0.9 | 136.0 | 5500 | C323_136.0 S1 M1SD4 | 133 | C323_136.0 P71 BN71B4 | 134 |
| 10.3 | 319 | 1.9 | 132.9 | 7000 | C413_132.9 S1 M1SD4 | 141 | C413_132.9 P71 BN71B4 | 142 |
| 10.9 | 304 | 1.5 | 125.8 | 6500 | C363_125.8 S1 M1SD4 | 137 | C363_125.8 P71 BN71B4 | 138 |
| 11.2 | 296 | 1.0 | 122.4 | 5500 | C323_122.4 S1 M1SD4 | 133 | C323_122.4 P71 BN71B4 | 134 |
| 11.4 | 289 | 2.1 | 120.6 | 7000 | C413_120.6 S1 M1SD4 | 141 | C413_120.6 P71 BN71B4 | 142 |
| 12.3 | 270 | 1.7 | 111.5 | 6500 | C363_111.5 S1 M1SD4 | 137 | C363_111.5 P71 BN71B4 | 138 |
| 12.4 | 264 | 2.3 | 110.1 | 7000 | C413_110.1 S1 M1SD4 | 141 | C413_110.1 P71 BN71B4 | 142 |
| 12.4 | 267 | 1.1 | 110.6 | 5500 | C323_110.6 S1 M1SD4 | 133 | C323_110.6 P71 BN71B4 | 134 |
| 13.3 | 250 | 1.2 | 103.3 | 5500 | C323_103.3 S1 M1SD4 | 133 | C323_103.3 P71 BN71B4 | 134 |
| 13.4 | 245 | 2.4 | 102.3 | 7000 | C413_102.3 S1 M1SD4 | 141 | C413_102.3 P71 BN71B4 | 142 |
| 13.4 | 247 | 1.8 | 102.2 | 6500 | C363_102.2 S1 M1SD4 | 137 | C363_102.2 P71 BN71B4 | 138 |
| 14.5 | 228 | 1.3 | 94.2 | 5500 | C323_94.2 S1 M1SD4 | 133 | C323_94.2 P71 BN71B4 | 134 |
| 14.7 | 224 | 2.7 | 93.3 | 7000 | C413_93.3 S1 M1SD4 | 141 | C413_93.3 P71 BN71B4 | 142 |
| 14.9 | 222 | 2.0 | 91.9 | 6500 | C363_91.9 S1 M1SD4 | 137 | C363_91.9 P71 BN71B4 | 138 |
| 15.5 | 214 | 0.9 | 88.5 | 4850 | C223_88.5 S1 M1SD4 | 129 | C223_88.5 P71 BN71B4 | 130 |
| 16.5 | 201 | 2.2 | 83.1 | 6500 | C363_83.1 S1 M1SD4 | 137 | C363_83.1 P71 BN71B4 | 138 |
| 16.6 | 200 | 1.0 | 82.6 | 5000 | C223_82.6 S1 M1SD4 | 129 | C223_82.6 P71 BN71B4 | 130 |
| 16.6 | 200 | 1.5 | 82.6 | 5500 | C323_82.6 S1 M1SD4 | 133 | C323_82.6 P71 BN71B4 | 134 |
| 16.8 | 196 | 3.1 | 81.5 | 7000 | C413_81.5 S1 M1SD4 | 141 | C413_81.5 P71 BN71B4 | 142 |

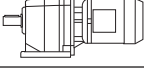





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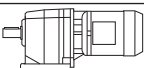



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 17.7 | 188 | 2.4 | 77.6 | 6500 | C363_77.6 S1 M1SD4 | 137 | C363_77.6 P71 BN71B4 | 138 |
| 18.3 | 181 | 1.1 | 74.8 | 5000 | C223_74.8 S1 M1SD4 | 129 | C223_74.8 P71 BN71B4 | 130 |
| 18.3 | 181 | 1.6 | 74.7 | 5500 | C323_74.7 S1 M1SD4 | 133 | C323_74.7 P71 BN71B4 | 134 |
| 18.4 | 178 | 3.4 | 74.4 | 7000 | C413_74.4 S1 M1SD4 | 141 | C413_74.4 P71 BN71B4 | 142 |
| 19.4 | 171 | 2.6 | 70.8 | 6500 | C363_70.8 S1 M1SD4 | 137 | C363_70.8 P71 BN71B4 | 138 |
| 20.5 | 165 | 1.3 | 66.8 | 5500 | C322_66.8 S1 M1SD4 | 133 | C322_66.8 P71 BN71B4 | 134 |
| 21.0 | 158 | 1.3 | 65.3 | 5000 | C223_65.3 S1 M1SD4 | 129 | C223_65.3 P71 BN71B4 | 130 |
| 21.7 | 156 | 0.8 | 63.3 | 4850 | C222_63.3 S1 M1SD4 | 129 | C222_63.3 P71 BN71B4 | 130 |
| 22.1 | 150 | 3.0 | 62.0 | 6500 | C363_62.0 S1 M1SD4 | 137 | C363_62.0 P71 BN71B4 | 138 |
| 22.8 | 145 | 1.3 | 60.0 | 5000 | C223_60.0 S1 M1SD4 | 129 | C223_60.0 P71 BN71B4 | 130 |
| 23.1 | 147 | 1.5 | 59.4 | 5500 | C322_59.4 S1 M1SD4 | 133 | C322_59.4 P71 BN71B4 | 134 |
| 25.0 | 135 | 1.1 | 54.7 | 5000 | C222_54.7 S1 M1SD4 | 129 | C222_54.7 P71 BN71B4 | 130 |
| 26.1 | 130 | 2.3 | 52.4 | 5500 | C322_52.4 S1 M1SD4 | 133 | C322_52.4 P71 BN71B4 | 134 |
| 28.2 | 120 | 1.3 | 48.6 | 4850 | C222_48.6 S1 M1SD4 | 129 | C222_48.6 P71 BN71B4 | 130 |
| 30 | 112 | 2.7 | 45.3 | 5500 | C322_45.3 S1 M1SD4 | 133 | C322_45.3 P71 BN71B4 | 134 |
| 32 | 107 | 1.8 | 43.3 | 4530 | C222_43.3 S1 M1SD4 | 129 | C222_43.3 P71 BN71B4 | 130 |
| 34 | 101 | 3.0 | 40.7 | 5500 | C322_40.7 S1 M1SD4 | 133 | C322_40.7 P71 BN71B4 | 134 |
| 37 | 91 | 1.0 | 37.0 | 2000 | C122_37.0 S1 M1SD4 | 125 | C122_37.0 P71 BN71B4 | 126 |
| 37 | 91 | 2.2 | 36.8 | 4360 | C222_36.8 S1 M1SD4 | 129 | C222_36.8 P71 BN71B4 | 130 |
| 38 | 89 | 3.4 | 36.1 | 5500 | C322_36.1 S1 M1SD4 | 133 | C322_36.1 P71 BN71B4 | 134 |
| 41 | 82 | 2.4 | 33.1 | 4240 | C222_33.1 S1 M1SD4 | 129 | C222_33.1 P71 BN71B4 | 130 |
| 42 | 81 | 1.1 | 32.8 | 2000 | C122_32.8 S1 M1SD4 | 125 | C122_32.8 P71 BN71B4 | 126 |
| 46 | 73 | 2.7 | 29.6 | 4130 | C222_29.6 S1 M1SD4 | 129 | C222_29.6 P71 BN71B4 | 130 |
| 46 | 73 | 1.2 | 29.5 | 2000 | C122_29.5 S1 M1SD4 | 125 | C122_29.5 P71 BN71B4 | 126 |
| 50 | 67 | 3.0 | 27.2 | 4100 | C222_27.2 S1 M1SD4 | 129 | C222_27.2 P71 BN71B4 | 130 |
| 54 | 63 | 1.4 | 25.4 | 2000 | C122_25.4 S1 M1SD4 | 125 | C122_25.4 P71 BN71B4 | 126 |
| 56 | 60 | 3.3 | 24.3 | 3920 | C222_24.3 S1 M1SD4 | 129 | C222_24.3 P71 BN71B4 | 130 |
| 59 | 57 | 1.5 | 23.2 | 2000 | C122_23.2 S1 M1SD4 | 125 | C122_23.2 P71 BN71B4 | 126 |
| 66 | 51 | 1.6 | 20.6 | 2000 | C122_20.6 S1 M1SD4 | 125 | C122_20.6 P71 BN71B4 | 126 |
| 74 | 45 | 1.7 | 18.4 | 2000 | C122_18.4 S1 M1SD4 | 125 | C122_18.4 P71 BN71B4 | 126 |
| 80 | 42 | 1.8 | 17.2 | 2000 | C122_17.2 S1 M1SD4 | 125 | C122_17.2 P71 BN71B4 | 126 |
| 88 | 39 | 1.0 | 15.6 | 580 | C052_15.6 S1 M1SD4 | 124 | | |
| 89 | 38 | 1.9 | 15.4 | 2000 | C122_15.4 S1 M1SD4 | 125 | C122_15.4 P71 BN71B4 | 126 |
| 102 | 33 | 2.1 | 13.4 | 2000 | C122_13.4 S1 M1SD4 | 125 | C122_13.4 P71 BN71B4 | 126 |
| 110 | 31 | 1.3 | 12.5 | 600 | C052_12.5 S1 M1SD4 | 124 | | |
| 115 | 29 | 2.3 | 11.9 | 2000 | C122_11.9 S1 M1SD4 | 125 | C122_11.9 P71 BN71B4 | 126 |
| 122 | 28 | 1.4 | 11.2 | 590 | C052_11.2 S1 M1SD4 | 124 | | |
| 136 | 25 | 2.5 | 10.1 | 1930 | C122_10.1 S1 M1SD4 | 125 | C122_10.1 P71 BN71B4 | 126 |
| 147 | 23 | 1.3 | 9.3 | 580 | C052_9.3 S1 M1SD4 | 124 | | |
| 155 | 22 | 2.7 | 8.8 | 1850 | C122_8.8 S1 M1SD4 | 125 | C122_8.8 P71 BN71B4 | 126 |
| 164 | 20 | 2.2 | 5.5 | 570 | C052_5.5 S1 M1LA6 | 124 | | |
| 180 | 19 | 3.0 | 7.6 | 1780 | C122_7.6 S1 M1SD4 | 125 | C122_7.6 P71 BN71B4 | 126 |
| 185 | 18 | 1.6 | 7.4 | 570 | C052_7.4 S1 M1SD4 | 124 | | |
| 204 | 17 | 1.8 | 6.7 | 560 | C052_6.7 S1 M1SD4 | 124 | | |
| 220 | 15 | 3.4 | 6.2 | 1650 | C122_6.2 S1 M1SD4 | 125 | C122_6.2 P71 BN71B4 | 126 |
| 235 | 14 | 3.7 | 11.9 | 1610 | C122_11.9 S05 M05C2 | 125 | C122_11.9 P71 BN71A2 | 126 |
| 249 | 14 | 2.2 | 5.5 | 540 | C052_5.5 S1 M1SD4 | 124 | | |
| 273 | 12 | 4.0 | 10.1 | 1570 | C122_10.1 S05 M05C2 | 125 | C122_10.1 P71 BN71A2 | 126 |
| 318 | 11 | 4.5 | 8.8 | 1500 | C122_8.8 S05 M05C2 | 125 | C122_8.8 P71 BN71A2 | 126 |
| 361 | 9 | 4.8 | 7.6 | 1440 | C122_7.6 S05 M05C2 | 125 | C122_7.6 P71 BN71A2 | 126 |
| 452 | 7 | 5.7 | 6.2 | 1350 | C122_6.2 S05 M05C2 | 125 | C122_6.2 P71 BN71A2 | 126 |

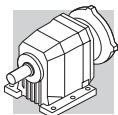


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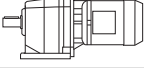




| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-----|---------------|---|--|---|---|
| 500 | 7 | 6.0 | 5.6 | 1290 | C122_5.6 S05 M05C2 | 125 | C122_5.6 P71 BN71A2 | 126 |
| 577 | 6 | 6.5 | 4.9 | 1230 | C122_4.9 S05 M05C2 | 125 | C122_4.9 P71 BN71A2 | 126 |
| 651 | 5 | 7.0 | 4.3 | 1180 | C122_3.2 S05 M05C2 | 125 | C122_3.2 P71 BN71A2 | 126 |
| 770 | 4 | 7.8 | 3.7 | 1120 | C122_3.7 S05 M05C2 | 125 | C122_3.7 P71 BN71A2 | 126 |
| 875 | 4 | 8.4 | 3.2 | 1080 | C122_3.2 S05 M05C2 | 125 | C122_3.2 P71 BN71A2 | 126 |
| 1015 | 3 | 9.1 | 2.8 | 1030 | C122_2.8 S05 M05C2 | 125 | C122_2.8 P71 BN71A2 | 126 |

0.55 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 0.74 | 6442 | 1.1 | 1240 | 60000 | C904_1240 S2 M2SA6 | 159 | C904_1240 P80 BN80B6 | 160 |
| 0.85 | 5616 | 2.1 | 1081 | 85000 | C1004_1081 S2 M2SA6 | 162 | C1004_1081 P80 BN80B6 | 163 |
| 1.0 | 4792 | 1.5 | 922.3 | 60000 | C904_922.3 S2 M2SA6 | 159 | C904_922.3 P80 BN80B6 | 160 |
| 1.1 | 4381 | 0.9 | 1274 | 35000 | C804_1274 S1 M1LA4 | 156 | C804_1274 P80 BN80A4 | 157 |
| 1.1 | 4295 | 1.7 | 1240 | 60000 | C904_1240 S1 M1LA4 | 159 | C904_1240 P80 BN80A4 | 160 |
| 1.3 | 3549 | 1.1 | 1032 | 35000 | C804_1032 S1 M1LA4 | 156 | C804_1032 P80 BN80A4 | 157 |
| 1.4 | 3484 | 2.1 | 1006 | 60000 | C904_1006 S1 M1LA4 | 159 | C904_1006 P80 BN80A4 | 160 |
| 1.6 | 2939 | 1.4 | 854.6 | 35000 | C804_854.6 S1 M1LA4 | 156 | C804_854.6 P80 BN80A4 | 157 |
| 1.6 | 2923 | 2.5 | 844.0 | 65000 | C904_844.0 S1 M1LA4 | 159 | C904_844.0 P80 BN80A4 | 160 |
| 1.9 | 2531 | 0.9 | 736.0 | 25000 | C704_736.0 S1 M1LA4 | 153 | C704_736.0 P80 BN80A4 | 154 |
| 1.9 | 2492 | 1.6 | 724.7 | 35000 | C804_724.7 S1 M1LA4 | 156 | C804_724.7 P80 BN80A4 | 157 |
| 2.1 | 2284 | 1.8 | 664.3 | 35000 | C804_664.3 S1 M1LA4 | 156 | C804_664.3 P80 BN80A4 | 157 |
| 2.1 | 2260 | 1.0 | 657.3 | 25000 | C704_657.3 S1 M1LA4 | 153 | C704_657.3 P80 BN80A4 | 154 |
| 2.4 | 1978 | 0.8 | 571.2 | 16000 | C614_571.2 S1 M1LA4 | 149 | C614_571.2 P80 BN80A4 | 150 |
| 2.5 | 1907 | 1.2 | 554.7 | 25000 | C704_554.7 S1 M1LA4 | 153 | C704_554.7 P80 BN80A4 | 154 |
| 2.6 | 1820 | 2.2 | 529.3 | 35000 | C804_529.3 S1 M1LA4 | 156 | C804_529.3 P80 BN80A4 | 157 |
| 3.0 | 1600 | 1.0 | 462.0 | 16000 | C614_462.0 S1 M1LA4 | 149 | C614_462.0 P80 BN80A4 | 150 |
| 3.1 | 1566 | 2.6 | 455.4 | 35000 | C804_455.4 S1 M1LA4 | 156 | C804_455.4 P80 BN80A4 | 157 |
| 3.1 | 1525 | 1.5 | 443.5 | 25000 | C704_443.5 S1 M1LA4 | 153 | C704_443.5 P80 BN80A4 | 154 |
| 3.3 | 1460 | 1.1 | 421.5 | 16000 | C614_421.5 S1 M1LA4 | 149 | C614_421.5 P80 BN80A4 | 150 |
| 3.6 | 1315 | 0.8 | 379.6 | 10000 | C514_379.6 S1 M1LA4 | 145 | C514_379.6 P80 BN80A4 | 146 |
| 3.7 | 1282 | 1.2 | 370.1 | 16000 | C614_370.1 S1 M1LA4 | 149 | C614_370.1 P80 BN80A4 | 150 |
| 3.8 | 1254 | 3.2 | 364.7 | 35000 | C804_364.7 S1 M1LA4 | 156 | C804_364.7 P80 BN80A4 | 157 |
| 4.0 | 1184 | 1.9 | 344.3 | 25000 | C704_344.3 S1 M1LA4 | 153 | C704_344.3 P80 BN80A4 | 154 |
| 4.1 | 1170 | 1.4 | 337.7 | 16000 | C614_337.7 S1 M1LA4 | 149 | C614_337.7 P80 BN80A4 | 150 |
| 4.2 | 1130 | 0.9 | 326.1 | 10000 | C514_326.1 S1 M1LA4 | 145 | C514_326.1 P80 BN80A4 | 146 |
| 4.6 | 1031 | 1.0 | 297.8 | 10000 | C514_297.8 S1 M1LA4 | 145 | C514_297.8 P80 BN80A4 | 146 |
| 5.0 | 953 | 1.7 | 275.3 | 16000 | C614_275.3 S1 M1LA4 | 149 | C614_275.3 P80 BN80A4 | 150 |
| 5.1 | 936 | 2.5 | 272.2 | 25000 | C704_272.2 S1 M1LA4 | 153 | C704_272.2 P80 BN80A4 | 154 |
| 5.2 | 914 | 1.1 | 263.8 | 10000 | C514_263.8 S1 M1LA4 | 145 | C514_263.8 P80 BN80A4 | 146 |
| 5.7 | 834 | 1.2 | 240.9 | 10000 | C514_240.9 S1 M1LA4 | 145 | C514_240.9 P80 BN80A4 | 146 |
| 5.8 | 847 | 2.7 | 239.3 | 25000 | C703_239.3 S1 M1LA4 | 149 | C703_239.3 P80 BN80A4 | 154 |
| 5.8 | 825 | 1.9 | 238.3 | 16000 | C614_238.3 S1 M1LA4 | 149 | C614_238.3 P80 BN80A4 | 150 |
| 6.2 | 782 | 2.9 | 220.9 | 25000 | C703_220.9 S1 M1LA4 | 149 | C703_220.9 P80 BN80A4 | 154 |
| 6.3 | 753 | 2.1 | 217.4 | 16000 | C614_217.4 S1 M1LA4 | 149 | C614_217.4 P80 BN80A4 | 150 |
| 6.4 | 767 | 1.3 | 216.7 | 10000 | C513_216.7 S1 M1LA4 | 145 | C513_216.7 P80 BN80A4 | 146 |
| 7.0 | 700 | 1.4 | 197.9 | 10000 | C513_197.9 S1 M1LA4 | 145 | C513_197.9 P80 BN80A4 | 146 |
| 7.0 | 693 | 2.3 | 195.8 | 16000 | C613_195.8 S1 M1LA4 | 145 | C613_195.8 P80 BN80A4 | 150 |

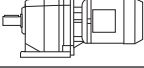






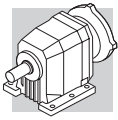
0.55 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 7.1 | 687 | 3.3 | 194.1 | 25000 | | | C703_194.1 P80 BN80A4 | 154 |
| 7.7 | 637 | 0.9 | 179.9 | 7000 | C413_179.9 S1 M1LA4 | 141 | C413_179.9 P80 BN80A4 | 142 |
| 7.7 | 632 | 2.5 | 178.6 | 16000 | | | C613_178.6 P80 BN80A4 | 150 |
| 7.9 | 622 | 1.6 | 175.8 | 10000 | C513_175.8 S1 M1LA4 | 145 | C513_175.8 P80 BN80A4 | 146 |
| 8.4 | 582 | 2.7 | 164.5 | 16000 | | | C613_164.5 P80 BN80A4 | 150 |
| 8.4 | 581 | 1.0 | 164.1 | 7000 | C413_164.1 S1 M1LA4 | 141 | C413_164.1 P80 BN80A4 | 142 |
| 8.6 | 568 | 1.8 | 160.5 | 10000 | C513_160.5 S1 M1LA4 | 145 | C513_160.5 P80 BN80A4 | 146 |
| 9.2 | 531 | 3.0 | 150.0 | 16000 | | | C613_150.0 P80 BN80A4 | 150 |
| 9.4 | 522 | 1.9 | 147.4 | 10000 | C513_147.4 S1 M1LA4 | 145 | C513_147.4 P80 BN80A4 | 146 |
| 9.5 | 516 | 1.2 | 145.6 | 7000 | C413_145.6 S1 M1LA4 | 141 | C413_145.6 P80 BN80A4 | 142 |
| 9.8 | 497 | 3.2 | 140.5 | 16000 | | | C613_140.5 P80 BN80A4 | 150 |
| 9.9 | 494 | 0.9 | 139.8 | 6500 | C363_139.8 S1 M1LA4 | 137 | C363_139.8 P80 BN80A4 | 138 |
| 10.3 | 477 | 2.1 | 134.6 | 10000 | C513_134.6 S1 M1LA4 | 145 | C513_134.6 P80 BN80A4 | 146 |
| 10.4 | 470 | 1.3 | 132.9 | 7000 | C413_132.9 S1 M1LA4 | 141 | C413_132.9 P80 BN80A4 | 142 |
| 11.0 | 445 | 1.0 | 125.8 | 6500 | C363_125.8 S1 M1LA4 | 137 | C363_125.8 P80 BN80A4 | 138 |
| 11.1 | 440 | 2.3 | 124.4 | 10000 | C513_124.4 S1 M1LA4 | 145 | C513_124.4 P80 BN80A4 | 146 |
| 11.4 | 427 | 1.4 | 120.6 | 7000 | C413_120.6 S1 M1LA4 | 141 | C413_120.6 P80 BN80A4 | 142 |
| 12.1 | 402 | 2.5 | 113.6 | 10000 | C513_113.6 S1 M1LA4 | 145 | C513_113.6 P80 BN80A4 | 146 |
| 12.4 | 394 | 1.1 | 111.5 | 6500 | C363_111.5 S1 M1LA4 | 137 | C363_111.5 P80 BN80A4 | 138 |
| 12.5 | 390 | 1.5 | 110.1 | 7000 | C413_110.1 S1 M1LA4 | 141 | C413_110.1 P80 BN80A4 | 142 |
| 13.5 | 362 | 1.7 | 102.3 | 7000 | C413_102.3 S1 M1LA4 | 141 | C413_102.3 P80 BN80A4 | 142 |
| 13.5 | 361 | 1.2 | 102.2 | 6500 | C363_102.2 S1 M1LA4 | 137 | C363_102.2 P80 BN80A4 | 138 |
| 13.6 | 360 | 2.8 | 101.8 | 10000 | C513_101.8 S1 M1LA4 | 145 | C513_101.8 P80 BN80A4 | 146 |
| 14.7 | 333 | 0.9 | 94.2 | 5500 | C323_94.2 S1 M1LA4 | 133 | C323_94.2 P80 BN80A4 | 134 |
| 14.8 | 330 | 1.8 | 93.3 | 7000 | C413_93.3 S1 M1LA4 | 141 | C413_93.3 P80 BN80A4 | 142 |
| 14.8 | 329 | 3.0 | 93.0 | 10000 | C513_93.0 S1 M1LA4 | 145 | C513_93.0 P80 BN80A4 | 146 |
| 15.0 | 325 | 1.4 | 91.9 | 6500 | C363_91.9 S1 M1LA4 | 137 | C363_91.9 P80 BN80A4 | 138 |
| 16.6 | 294 | 1.5 | 83.1 | 6500 | C363_83.1 S1 M1LA4 | 137 | C363_83.1 P80 BN80A4 | 138 |
| 16.7 | 292 | 1.0 | 82.6 | 5500 | C323_82.6 S1 M1LA4 | 133 | C323_82.6 P80 BN80A4 | 134 |
| 16.9 | 289 | 2.1 | 81.5 | 7000 | C413_81.5 S1 M1LA4 | 141 | C413_81.5 P80 BN80A4 | 142 |
| 17.5 | 284 | 1.1 | 52.4 | 5500 | C322_52.4 S2 M2SA6 | 133 | C322_52.4 P80 BN80B6 | 134 |
| 17.8 | 274 | 1.6 | 77.6 | 6500 | C363_77.6 S1 M1LA4 | 137 | C363_77.6 P80 BN80A4 | 138 |
| 18.5 | 264 | 1.1 | 74.7 | 5500 | C323_74.7 S1 M1LA4 | 133 | C323_74.7 P80 BN80A4 | 134 |
| 18.6 | 263 | 2.3 | 74.4 | 7000 | C413_74.4 S1 M1LA4 | 141 | C413_74.4 P80 BN80A4 | 142 |
| 19.5 | 250 | 1.8 | 70.8 | 6500 | C363_70.8 S1 M1LA4 | 137 | C363_70.8 P80 BN80A4 | 138 |
| 20.7 | 241 | 0.9 | 66.8 | 5500 | C322_66.8 S1 M1LA4 | 133 | C322_66.8 P80 BN80A4 | 134 |
| 21.5 | 228 | 2.6 | 64.3 | 7000 | C413_64.3 S1 M1LA4 | 141 | C413_64.3 P80 BN80A4 | 142 |
| 22.2 | 219 | 2.1 | 62.0 | 6500 | C363_62.0 S1 M1LA4 | 137 | C363_62.0 P80 BN80A4 | 138 |
| 22.6 | 221 | 1.4 | 40.7 | 5500 | C322_40.7 S2 M2SA6 | 133 | C322_40.7 P80 BN80B6 | 134 |
| 23.0 | 212 | 0.9 | 60.0 | 4280 | C223_60.0 S1 M1LA4 | 129 | C223_60.0 P80 BN80A4 | 130 |
| 23.2 | 214 | 1.0 | 59.4 | 5500 | C322_59.4 S1 M1LA4 | 133 | C322_59.4 P80 BN80A4 | 134 |
| 23.5 | 208 | 2.9 | 58.7 | 7000 | C413_58.7 S1 M1LA4 | 141 | C413_58.7 P80 BN80A4 | 142 |
| 24.6 | 198 | 2.3 | 56.2 | 6500 | C363_56.2 S1 M1LA4 | 137 | C363_56.2 P80 BN80A4 | 138 |
| 26.3 | 189 | 1.6 | 52.4 | 5500 | C322_52.4 S1 M1LA4 | 133 | C322_52.4 P80 BN80A4 | 134 |
| 26.8 | 182 | 3.3 | 51.5 | 7000 | C413_51.5 S1 M1LA4 | 141 | C413_51.5 P80 BN80A4 | 142 |
| 27.8 | 180 | 1.1 | 33.1 | 4270 | C222_33.1 S2 M2SA6 | 129 | C222_33.1 P80 BN80B6 | 130 |
| 28.7 | 170 | 2.6 | 48.2 | 6500 | C363_48.2 S1 M1LA4 | 137 | C363_48.2 P80 BN80A4 | 138 |
| 30 | 163 | 1.8 | 45.3 | 5500 | C322_45.3 S1 M1LA4 | 133 | C322_45.3 P80 BN80A4 | 134 |
| 31 | 162 | 3.1 | 44.8 | 7000 | C412_44.8 S1 M1LA4 | 141 | C412_44.8 P80 BN80A4 | 142 |
| 32 | 154 | 2.9 | 43.5 | 6500 | C363_43.5 S1 M1LA4 | 137 | C363_43.5 P80 BN80A4 | 138 |
| 32 | 156 | 1.2 | 43.3 | 4190 | C222_43.3 S1 M1LA4 | 129 | C222_43.3 P80 BN80A4 | 130 |

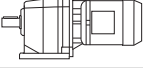





0.55 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 34 | 147 | 2.0 | 40.7 | 5500 | C322_40.7 S1 M1LA4 | 133 | C322_40.7 P80 BN80A4 | 134 |
| 36 | 135 | 3.3 | 38.1 | 6500 | C363_38.1 S1 M1LA4 | 137 | C363_38.1 P80 BN80A4 | 138 |
| 38 | 133 | 1.5 | 36.8 | 4070 | C222_36.8 S1 M1LA4 | 129 | C222_36.8 P80 BN80A4 | 130 |
| 38 | 130 | 2.3 | 36.1 | 5500 | C322_36.1 S1 M1LA4 | 133 | C322_36.1 P80 BN80A4 | 134 |
| 42 | 119 | 1.7 | 33.1 | 3970 | C222_33.1 S1 M1LA4 | 129 | C222_33.1 P80 BN80A4 | 130 |
| 42 | 119 | 2.5 | 33.1 | 5500 | C322_33.1 S1 M1LA4 | 133 | C322_33.1 P80 BN80A4 | 134 |
| 46 | 107 | 2.8 | 29.8 | 5500 | C322_29.8 S1 M1LA4 | 133 | C322_29.8 P80 BN80A4 | 134 |
| 47 | 107 | 1.9 | 29.6 | 3890 | C222_29.6 S1 M1LA4 | 129 | C222_29.6 P80 BN80A4 | 130 |
| 47 | 106 | 0.8 | 29.5 | 1820 | C122_29.5 S1 M1LA4 | 125 | C122_29.5 P80 BN80A4 | 126 |
| 51 | 98 | 2.0 | 27.2 | 3860 | C222_27.2 S1 M1LA4 | 129 | C222_27.2 P80 BN80A4 | 130 |
| 51 | 97 | 3.1 | 26.9 | 5500 | C322_26.9 S1 M1LA4 | 133 | C322_26.9 P80 BN80A4 | 134 |
| 54 | 92 | 1.0 | 25.4 | 2000 | C122_25.4 S1 M1LA4 | 125 | C122_25.4 P80 BN80A4 | 126 |
| 55 | 91 | 3.3 | 25.1 | 5500 | C322_25.1 S1 M1LA4 | 133 | C322_25.1 P80 BN80A4 | 134 |
| 57 | 88 | 2.3 | 24.3 | 3720 | C222_24.3 S1 M1LA4 | 129 | C222_24.3 P80 BN80A4 | 130 |
| 59 | 84 | 1.0 | 23.2 | 2000 | C122_23.2 S1 M1LA4 | 125 | C122_23.2 P80 BN80A4 | 126 |
| 64 | 77 | 2.5 | 21.5 | 3700 | C222_21.5 S1 M1LA4 | 129 | C222_21.5 P80 BN80A4 | 130 |
| 67 | 74 | 1.1 | 20.6 | 2000 | C122_20.6 S1 M1LA4 | 125 | C122_20.6 P80 BN80A4 | 126 |
| 69 | 72 | 2.6 | 20.0 | 3560 | C222_20.0 S1 M1LA4 | 129 | C222_20.0 P80 BN80A4 | 130 |
| 75 | 66 | 1.2 | 18.4 | 2000 | C122_18.4 S1 M1LA4 | 125 | C122_18.4 P80 BN80A4 | 126 |
| 76 | 65 | 2.8 | 18.1 | 3500 | C222_18.1 S1 M1LA4 | 129 | C222_18.1 P80 BN80A4 | 130 |
| 80 | 62 | 1.2 | 17.2 | 2000 | C122_17.2 S1 M1LA4 | 125 | C122_17.2 P80 BN80A4 | 126 |
| 87 | 57 | 3.1 | 15.8 | 3350 | C222_15.8 S1 M1LA4 | 129 | C222_15.8 P80 BN80A4 | 130 |
| 89 | 56 | 1.3 | 15.4 | 2000 | C122_15.4 S1 M1LA4 | 125 | C122_15.4 P80 BN80A4 | 126 |
| 95 | 53 | 3.2 | 14.5 | 3300 | C222_14.5 S1 M1LA4 | 129 | C222_14.5 P80 BN80A4 | 130 |
| 103 | 48 | 1.4 | 13.4 | 1990 | C122_13.4 S1 M1LA4 | 125 | C122_13.4 P80 BN80A4 | 126 |
| 116 | 43 | 1.6 | 11.9 | 1920 | C122_11.9 S1 M1LA4 | 125 | C122_11.9 P80 BN80A4 | 126 |
| 121 | 41 | 1.6 | 7.6 | 1910 | C122_7.6 S2 M2SA6 | 125 | C122_7.6 P80 BN80B6 | 126 |
| 123 | 40 | 1.0 | 11.2 | 480 | C052_11.2 S1 M1LA4 | 124 | | |
| 137 | 36 | 1.7 | 10.1 | 1850 | C122_10.1 S1 M1LA4 | 125 | C122_10.1 P80 BN80A4 | 126 |
| 151 | 33 | 3.3 | 6.1 | 2860 | C222_6.1 S2 M2SA6 | 129 | C222_6.1 P80 BN80B6 | 130 |
| 156 | 32 | 1.9 | 8.8 | 1780 | C122_8.8 S1 M1LA4 | 125 | C122_8.8 P80 BN80A4 | 126 |
| 181 | 28 | 2.0 | 7.6 | 1720 | C122_7.6 S1 M1LA4 | 125 | C122_7.6 P80 BN80A4 | 126 |
| 186 | 27 | 1.1 | 7.4 | 460 | C052_7.4 S1 M1LA4 | 124 | | |
| 206 | 24 | 1.2 | 6.7 | 450 | C052_6.7 S1 M1LA4 | 124 | | |
| 221 | 22 | 2.4 | 6.2 | 1590 | C122_6.2 S1 M1LA4 | 125 | C122_6.2 P80 BN80A4 | 126 |
| 237 | 21 | 2.5 | 11.9 | 1580 | C122_11.9 S1 M1SD2 | 125 | C122_11.9 P71 BN71B2 | 126 |
| 246 | 20 | 2.5 | 5.6 | 1540 | C122_5.6 S1 M1LA4 | 125 | C122_5.6 P80 BN80A4 | 126 |
| 251 | 20 | 1.5 | 5.5 | 430 | C052_5.5 S1 M1LA4 | 124 | | |
| 279 | 18 | 2.7 | 10.1 | 1530 | C122_10.1 S1 M1SD2 | 125 | C122_10.1 P71 BN71B2 | 126 |
| 283 | 18 | 2.7 | 4.9 | 1490 | C122_4.9 S1 M1LA4 | 125 | C122_4.9 P80 BN80A4 | 126 |
| 320 | 16 | 3.0 | 8.8 | 1470 | C122_8.8 S1 M1SD2 | 125 | C122_8.8 P71 BN71B2 | 126 |
| 320 | 16 | 2.9 | 4.3 | 1420 | C122_4.3 S1 M1LA4 | 125 | C122_4.3 P80 BN80A4 | 126 |
| 369 | 14 | 3.3 | 7.6 | 1410 | C122_7.6 S1 M1SD2 | 125 | C122_7.6 P71 BN71B2 | 126 |
| 378 | 13 | 3.2 | 3.7 | 1370 | C122_3.7 S1 M1LA4 | 125 | C122_3.7 P80 BN80A4 | 126 |
| 451 | 11 | 3.8 | 6.2 | 1300 | C122_6.2 S1 M1SD2 | 125 | C122_6.2 P71 BN71B2 | 126 |
| 504 | 10 | 4.0 | 5.6 | 1260 | C122_5.6 S1 M1SD2 | 125 | C122_5.6 P71 BN71B2 | 126 |
| 577 | 9 | 4.4 | 4.9 | 1210 | C122_4.9 S1 M1SD2 | 125 | C122_4.9 P71 BN71B2 | 126 |
| 656 | 8 | 4.7 | 4.3 | 1170 | C122_4.3 S1 M1SD2 | 125 | C122_4.3 P71 BN71B2 | 126 |
| 770 | 6 | 5.2 | 3.7 | 1110 | C122_3.7 S1 M1SD2 | 125 | C122_3.7 P71 BN71B2 | 126 |
| 881 | 6 | 5.7 | 3.2 | 990 | C122_3.2 S1 M1SD2 | 125 | C122_3.2 P71 BN71B2 | 126 |
| 1007 | 5 | 6.1 | 2.8 | 950 | C122_2.8 S1 M1SD2 | 125 | C122_2.8 P71 BN71B2 | 126 |

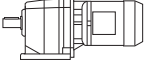





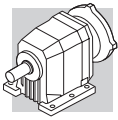
0.75 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 0.85 | 7659 | 1.6 | 1081 | 85000 | C1004_1081 S2 M2SB6 | 162 | C1004_1081 P90 BN90S6 | 163 |
| 0.91 | 7127 | 1.0 | 1006 | 60000 | C904_1006 S2 M2SB6 | 159 | C904_1006 P90 BN90S6 | 160 |
| 1.1 | 5773 | 1.2 | 1240 | 35000 | C904_1240 S2 M2SA4 | 159 | C904_1240 P80 BN80B4 | 160 |
| 1.5 | 4403 | 0.9 | 945.7 | 35000 | C804_945.7 S2 M2SA4 | 156 | C804_945.7 P80 BN80B4 | 157 |
| 1.5 | 4294 | 1.7 | 922.3 | 60000 | C904_922.3 S2 M2SA4 | 159 | C904_922.3 P80 BN80B4 | 160 |
| 1.8 | 3647 | 1.1 | 783.4 | 35000 | C804_783.4 S2 M2SA4 | 156 | C804_783.4 P80 BN80B4 | 157 |
| 1.8 | 3602 | 2.0 | 773.6 | 60000 | C904_773.6 S2 M2SA4 | 159 | C904_773.6 P80 BN80B4 | 160 |
| 2.1 | 3093 | 1.3 | 664.3 | 35000 | C804_664.3 S2 M2SA4 | 156 | C804_664.3 P80 BN80B4 | 157 |
| 2.1 | 3039 | 2.4 | 652.8 | 60000 | C904_652.8 S2 M2SA4 | 159 | C904_652.8 P80 BN80B4 | 160 |
| 2.6 | 2487 | 2.9 | 534.2 | 60000 | C904_534.2 S2 M2SA4 | 159 | C904_534.2 P80 BN80B4 | 160 |
| 2.6 | 2464 | 1.6 | 529.3 | 35000 | C804_529.3 S2 M2SA4 | 156 | C804_529.3 P80 BN80B4 | 157 |
| 3.1 | 2128 | 3.4 | 457.1 | 60000 | C904_457.1 S2 M2SA4 | 159 | C904_457.1 P80 BN80B4 | 160 |
| 3.1 | 2120 | 1.9 | 455.4 | 35000 | C804_455.4 S2 M2SA4 | 156 | C804_455.4 P80 BN80B4 | 157 |
| 3.2 | 2065 | 1.1 | 443.5 | 25000 | C704_443.5 S2 M2SA4 | 153 | C704_443.5 P80 BN80B4 | 154 |
| 3.3 | 1962 | 0.8 | 421.5 | 16000 | C614_421.5 S2 M2SA4 | 149 | C614_421.5 P80 BN80B4 | 150 |
| 3.4 | 1906 | 1.2 | 409.4 | 25000 | C704_409.4 S2 M2SA4 | 153 | C704_409.4 P80 BN80B4 | 154 |
| 3.8 | 1723 | 0.9 | 370.1 | 16000 | C614_370.1 S2 M2SA4 | 149 | C614_370.1 P80 BN80B4 | 150 |
| 3.8 | 1733 | 1.3 | 239.3 | 25000 | C703_239.3 S2 M2SB6 | 153 | C703_239.3 P90 BN90S6 | 154 |
| 4.1 | 1572 | 1.0 | 337.7 | 16000 | C614_337.7 S2 M2SA4 | 149 | C614_337.7 P80 BN80B4 | 150 |
| 4.3 | 1563 | 2.6 | 215.8 | 35000 | C803_215.8 S2 M2SB6 | 156 | C803_215.8 P90 BN90S6 | 157 |
| 4.4 | 1480 | 1.6 | 317.9 | 25000 | C704_317.9 S2 M2SA4 | 153 | C704_317.9 P80 BN80B4 | 154 |
| 4.6 | 1405 | 1.1 | 301.7 | 16000 | C614_301.7 S2 M2SA4 | 149 | C614_301.7 P80 BN80B4 | 150 |
| 4.7 | 1417 | 1.1 | 195.8 | 16000 | C613_195.8 S2 M2SB6 | 149 | C613_195.8 P90 BN90S6 | 150 |
| 5.1 | 1282 | 1.2 | 275.3 | 16000 | C614_275.3 S2 M2SA4 | 149 | C614_275.3 P80 BN80B4 | 150 |
| 5.1 | 1267 | 1.8 | 272.2 | 25000 | C704_272.2 S2 M2SA4 | 153 | C704_272.2 P80 BN80B4 | 154 |
| 5.2 | 1293 | 1.2 | 178.6 | 16000 | C613_178.6 S2 M2SB6 | 149 | C613_178.6 P90 BN90S6 | 150 |
| 5.3 | 1228 | 0.8 | 263.8 | 10000 | C514_263.8 S2 M2SA4 | 145 | C514_263.8 P80 BN80B4 | 146 |
| 5.6 | 1191 | 1.3 | 164.5 | 16000 | C613_164.5 S2 M2SB6 | 149 | C613_164.5 P90 BN90S6 | 150 |
| 5.8 | 1121 | 0.9 | 240.9 | 10000 | C514_240.9 S2 M2SA4 | 145 | C514_240.9 P80 BN80B4 | 146 |
| 5.8 | 1139 | 2.0 | 239.3 | 25000 | C703_239.3 S2 M2SA4 | 153 | C703_239.3 P80 BN80B4 | 154 |
| 6.3 | 1051 | 2.1 | 220.9 | 25000 | C703_220.9 S2 M2SA4 | 153 | C703_220.9 P80 BN80B4 | 154 |
| 6.4 | 1012 | 1.6 | 217.4 | 16000 | C614_217.4 S2 M2SA4 | 149 | C614_217.4 P80 BN80B4 | 150 |
| 6.5 | 1031 | 1.0 | 216.7 | 10000 | C513_216.7 S2 M2SA4 | 145 | C513_216.7 P80 BN80B4 | 146 |
| 7.1 | 941 | 1.1 | 197.9 | 10000 | C513_197.9 S2 M2SA4 | 145 | C513_197.9 P80 BN80B4 | 146 |
| 7.2 | 931 | 1.7 | 195.8 | 16000 | C613_195.8 S2 M2SA4 | 149 | C613_195.8 P80 BN80B4 | 150 |
| 7.2 | 924 | 2.5 | 194.1 | 25000 | C703_194.1 S2 M2SA4 | 153 | C703_194.1 P80 BN80B4 | 154 |
| 7.8 | 850 | 1.9 | 178.6 | 16000 | C613_178.6 S2 M2SA4 | 149 | C613_178.6 P80 BN80B4 | 150 |
| 8.0 | 836 | 1.2 | 175.8 | 10000 | C513_175.8 S2 M2SA4 | 145 | C513_175.8 P80 BN80B4 | 146 |
| 8.5 | 782 | 2.0 | 164.5 | 16000 | C613_164.5 S2 M2SA4 | 149 | C613_164.5 P80 BN80B4 | 150 |
| 8.6 | 775 | 3.0 | 162.8 | 25000 | C703_162.8 S2 M2SA4 | 153 | C703_162.8 P80 BN80B4 | 154 |
| 8.7 | 764 | 1.3 | 160.5 | 10000 | C513_160.5 S2 M2SA4 | 145 | C513_160.5 P80 BN80B4 | 146 |
| 9.3 | 714 | 2.2 | 150.0 | 16000 | C613_150.0 S2 M2SA4 | 149 | C613_150.0 P80 BN80B4 | 150 |
| 9.5 | 702 | 1.4 | 147.4 | 10000 | C513_147.4 S2 M2SA4 | 145 | C513_147.4 P80 BN80B4 | 146 |
| 10.0 | 668 | 2.4 | 140.5 | 16000 | C613_140.5 S2 M2SA4 | 149 | C613_140.5 P80 BN80B4 | 150 |
| 10.2 | 654 | 3.5 | 137.4 | 25000 | C703_137.4 S2 M2SA4 | 153 | C703_137.4 P80 BN80B4 | 154 |
| 10.4 | 641 | 1.6 | 134.6 | 10000 | C513_134.6 S2 M2SA4 | 145 | C513_134.6 P80 BN80B4 | 146 |
| 10.5 | 632 | 0.9 | 132.9 | 7000 | C413_132.9 S2 M2SA4 | 141 | C413_132.9 P80 BN80B4 | 142 |
| 10.9 | 610 | 2.6 | 128.1 | 16000 | C613_128.1 S2 M2SA4 | 149 | C613_128.1 P80 BN80B4 | 150 |
| 11.3 | 592 | 1.7 | 124.4 | 10000 | C513_124.4 S2 M2SA4 | 145 | C513_124.4 P80 BN80B4 | 146 |
| 11.6 | 574 | 1.0 | 120.6 | 7000 | C413_120.6 S2 M2SA4 | 141 | C413_120.6 P80 BN80B4 | 142 |
| 12.3 | 541 | 3.0 | 113.6 | 16000 | C613_113.6 S2 M2SA4 | 149 | C613_113.6 P80 BN80B4 | 150 |

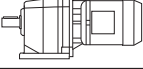





0.75 kW

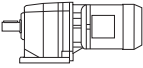



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 12.3 | 541 | 1.9 | 113.6 | 10000 | C513_113.6 S2 M2SA4 | 145 | C513_113.6 P80 BN80B4 | 146 |
| 12.7 | 524 | 1.1 | 110.1 | 7000 | C413_110.1 S2 M2SA4 | 141 | C413_110.1 P80 BN80B4 | 142 |
| 13.5 | 493 | 3.2 | 103.6 | 16000 | C613_103.6 S2 M2SA4 | 149 | C613_103.6 P80 BN80B4 | 150 |
| 13.7 | 487 | 1.2 | 102.3 | 7000 | C413_102.3 S2 M2SA4 | 141 | C413_102.3 P80 BN80B4 | 142 |
| 13.7 | 485 | 0.9 | 102.2 | 6500 | C363_102.2 S2 M2SA4 | 137 | C363_102.2 P80 BN80B4 | 138 |
| 13.8 | 484 | 2.1 | 101.8 | 10000 | C513_101.8 S2 M2SA4 | 145 | C513_101.8 P80 BN80B4 | 146 |
| 15.0 | 444 | 1.4 | 93.3 | 7000 | C413_93.3 S2 M2SA4 | 141 | C413_93.3 P80 BN80B4 | 142 |
| 15.1 | 442 | 2.3 | 93.0 | 10000 | C513_93.0 S2 M2SA4 | 145 | C513_93.0 P80 BN80B4 | 146 |
| 15.2 | 436 | 1.0 | 91.9 | 6500 | C363_91.9 S2 M2SA4 | 137 | C363_91.9 P80 BN80B4 | 138 |
| 16.8 | 394 | 1.1 | 83.1 | 6500 | C363_83.1 S2 M2SA4 | 137 | C363_83.1 P80 BN80B4 | 138 |
| 17.2 | 388 | 1.5 | 81.5 | 7000 | C413_81.5 S2 M2SA4 | 141 | C413_81.5 P80 BN80B4 | 142 |
| 17.5 | 380 | 2.6 | 79.9 | 10000 | C513_79.9 S2 M2SA4 | 145 | C513_79.9 P80 BN80B4 | 146 |
| 18.0 | 368 | 1.2 | 77.6 | 6500 | C363_77.6 S2 M2SA4 | 137 | C363_77.6 P80 BN80B4 | 138 |
| 18.8 | 354 | 1.7 | 74.4 | 7000 | C413_74.4 S2 M2SA4 | 141 | C413_74.4 P80 BN80B4 | 142 |
| 19.2 | 347 | 2.9 | 72.9 | 10000 | C513_72.9 S2 M2SA4 | 145 | C513_72.9 P80 BN80B4 | 146 |
| 19.8 | 336 | 1.3 | 70.8 | 6500 | C363_70.8 S2 M2SA4 | 137 | C363_70.8 P80 BN80B4 | 138 |
| 21.7 | 307 | 3.3 | 64.6 | 10000 | C513_64.6 S2 M2SA4 | 145 | C513_64.6 P80 BN80B4 | 146 |
| 21.8 | 306 | 2.0 | 64.3 | 7000 | C413_64.3 S2 M2SA4 | 141 | C413_64.3 P80 BN80B4 | 142 |
| 22.6 | 294 | 1.5 | 62.0 | 6500 | C363_62.0 S2 M2SA4 | 137 | C363_62.0 P80 BN80B4 | 138 |
| 22.6 | 301 | 1.0 | 40.7 | 5500 | C322_40.7 S2 M2SB6 | 133 | C322_40.7 P90 BN90S6 | 134 |
| 23.9 | 279 | 2.1 | 58.7 | 7000 | C413_58.7 S2 M2SA4 | 141 | C413_58.7 P80 BN80B4 | 142 |
| 24.6 | 277 | 2.8 | 57.0 | 10000 | C512_57.0 S2 M2SA4 | 145 | C512_57.0 P80 BN80B4 | 146 |
| 24.9 | 266 | 1.7 | 56.2 | 6500 | C363_56.2 S2 M2SA4 | 137 | C363_56.2 P80 BN80B4 | 138 |
| 26.7 | 254 | 1.2 | 52.4 | 5500 | C322_52.4 S2 M2SA4 | 133 | C322_52.4 P80 BN80B4 | 134 |
| 27.2 | 245 | 2.4 | 51.5 | 7000 | C413_51.5 S2 M2SA4 | 141 | C413_51.5 P80 BN80B4 | 142 |
| 27.2 | 250 | 2.8 | 51.4 | 10000 | C512_51.4 S2 M2SA4 | 145 | C512_51.4 P80 BN80B4 | 146 |
| 29.1 | 228 | 2.0 | 48.2 | 6500 | C363_48.2 S2 M2SA4 | 137 | C363_48.2 P80 BN80B4 | 138 |
| 29.3 | 232 | 3.4 | 47.8 | 10000 | C512_47.8 S2 M2SA4 | 145 | C512_47.8 P80 BN80B4 | 146 |
| 30 | 223 | 2.7 | 47.0 | 7000 | C413_47.0 S2 M2SA4 | 141 | C413_47.0 P80 BN80B4 | 142 |
| 31 | 218 | 2.3 | 44.8 | 7000 | C412_44.8 S2 M2SA4 | 141 | C412_44.8 P80 BN80B4 | 142 |
| 31 | 219 | 1.4 | 45.3 | 5500 | C322_45.3 S2 M2SA4 | 133 | C322_45.3 P80 BN80B4 | 134 |
| 32 | 206 | 2.2 | 43.5 | 6500 | C363_43.5 S2 M2SA4 | 137 | C363_43.5 P80 BN80B4 | 138 |
| 32 | 210 | 0.9 | 43.3 | 3810 | C222_43.3 S2 M2SA4 | 129 | C222_43.3 P80 BN80B4 | 130 |
| 34 | 197 | 1.5 | 40.7 | 5500 | C322_40.7 S2 M2SA4 | 133 | C322_40.7 P80 BN80B4 | 134 |
| 35 | 192 | 3.1 | 40.3 | 7000 | C413_40.3 S2 M2SA4 | 141 | C413_40.3 P80 BN80B4 | 142 |
| 37 | 181 | 2.5 | 38.1 | 6500 | C363_38.1 S2 M2SA4 | 137 | C363_38.1 P80 BN80B4 | 138 |
| 38 | 180 | 2.8 | 37.1 | 7000 | C412_37.1 S2 M2SA4 | 141 | C412_37.1 P80 BN80B4 | 142 |
| 38 | 178 | 1.1 | 36.8 | 3750 | C222_36.8 S2 M2SA4 | 129 | C222_36.8 P80 BN80B4 | 130 |
| 39 | 175 | 1.7 | 36.1 | 5500 | C322_36.1 S2 M2SA4 | 133 | C322_36.1 P80 BN80B4 | 134 |
| 40 | 164 | 2.7 | 34.6 | 6500 | C363_34.6 S2 M2SA4 | 137 | C363_34.6 P80 BN80B4 | 138 |
| 42 | 160 | 1.2 | 33.1 | 3680 | C222_33.1 S2 M2SA4 | 129 | C222_33.1 P80 BN80B4 | 130 |
| 42 | 160 | 1.9 | 33.1 | 5500 | C322_33.1 S2 M2SA4 | 133 | C322_33.1 P80 BN80B4 | 134 |
| 47 | 144 | 2.1 | 29.8 | 5500 | C322_29.8 S2 M2SA4 | 133 | C322_29.8 P80 BN80B4 | 134 |
| 47 | 144 | 1.4 | 29.6 | 3630 | C222_29.6 S2 M2SA4 | 129 | C222_29.6 P80 BN80B4 | 130 |
| 49 | 136 | 3.3 | 28.7 | 6490 | C363_28.7 S2 M2SA4 | 137 | C363_28.7 P80 BN80B4 | 138 |
| 52 | 132 | 1.5 | 27.2 | 3600 | C222_27.2 S2 M2SA4 | 129 | C222_27.2 P80 BN80B4 | 130 |
| 52 | 130 | 2.3 | 26.9 | 5500 | C322_26.9 S2 M2SA4 | 133 | C322_26.9 P80 BN80B4 | 134 |
| 56 | 122 | 2.5 | 25.1 | 5460 | C322_25.1 S2 M2SA4 | 133 | C322_25.1 P80 BN80B4 | 134 |
| 58 | 118 | 1.7 | 24.3 | 3510 | C222_24.3 S2 M2SA4 | 129 | C222_24.3 P80 BN80B4 | 130 |
| 61 | 111 | 2.7 | 22.9 | 5300 | C322_22.9 S2 M2SA4 | 133 | C322_22.9 P80 BN80B4 | 134 |
| 65 | 104 | 1.9 | 21.5 | 3480 | C222_21.5 S2 M2SA4 | 129 | C222_21.5 P80 BN80B4 | 130 |



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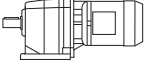




| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 70 | 97 | 3.0 | 20.1 | 5150 | C322_20.1 S2 M2SA4 | 133 | C322_20.1 P80 BN80B4 | 134 |
| 70 | 97 | 2.0 | 20.0 | 3380 | C222_20.0 S2 M2SA4 | 129 | C222_20.0 P80 BN80B4 | 130 |
| 77 | 88 | 2.1 | 18.1 | 3350 | C222_18.1 S2 M2SA4 | 129 | C222_18.1 P80 BN80B4 | 130 |
| 82 | 83 | 0.9 | 17.2 | 1750 | C122_17.2 S2 M2SA4 | 125 | C122_17.2 P80 BN80B4 | 126 |
| 88 | 77 | 2.3 | 15.8 | 3210 | C222_15.8 S2 M2SA4 | 129 | C222_15.8 P80 BN80B4 | 130 |
| 91 | 75 | 1.0 | 15.4 | 1920 | C122_15.4 S2 M2SA4 | 125 | C122_15.4 P80 BN80B4 | 126 |
| 96 | 70 | 2.4 | 14.5 | 3200 | C222_14.5 S2 M2SA4 | 129 | C222_14.5 P80 BN80B4 | 130 |
| 104 | 65 | 1.1 | 13.4 | 1870 | C122_13.4 S2 M2SA4 | 125 | C122_13.4 P80 BN80B4 | 126 |
| 113 | 60 | 2.7 | 12.4 | 3030 | C222_12.4 S2 M2SA4 | 129 | C222_12.4 P80 BN80B4 | 130 |
| 118 | 58 | 1.2 | 11.9 | 1780 | C122_11.9 S2 M2SA4 | 125 | C122_11.9 P80 BN80B4 | 126 |
| 126 | 54 | 2.9 | 11.1 | 2980 | C222_11.1 S2 M2SA4 | 129 | C222_11.1 P80 BN80B4 | 130 |
| 139 | 49 | 1.3 | 10.1 | 1760 | C122_10.1 S2 M2SA4 | 125 | C122_10.1 P80 BN80B4 | 126 |
| 145 | 47 | 3.1 | 9.6 | 2840 | C222_9.6 S2 M2SA4 | 129 | C222_9.6 P80 BN80B4 | 130 |
| 158 | 43 | 1.4 | 8.8 | 1700 | C122_8.8 S2 M2SA4 | 125 | C122_8.8 P80 BN80B4 | 126 |
| 162 | 42 | 3.3 | 8.7 | 2760 | C222_8.7 S2 M2SA4 | 129 | C222_8.7 P80 BN80B4 | 130 |
| 184 | 37 | 1.5 | 7.6 | 1650 | C122_7.6 S2 M2SA4 | 125 | C122_7.6 P80 BN80B4 | 126 |
| 225 | 30 | 1.8 | 6.2 | 1530 | C122_6.2 S2 M2SA4 | 125 | C122_6.2 P80 BN80B4 | 126 |
| 236 | 29 | 1.8 | 11.9 | 1520 | C122_11.9 S1 M1LA2 | 125 | C122_11.9 P80 BN80A2 | 126 |
| 250 | 27 | 1.9 | 5.6 | 1470 | C122_5.6 S2 M2SA4 | 125 | C122_5.6 P80 BN80B4 | 126 |
| 278 | 24 | 2.0 | 10.1 | 1490 | C122_10.1 S1 M1LA2 | 125 | C122_10.1 P80 BN80A2 | 126 |
| 288 | 24 | 2.0 | 4.9 | 1440 | C122_4.9 S2 M2SA4 | 125 | C122_4.9 P80 BN80B4 | 126 |
| 319 | 22 | 2.2 | 8.8 | 1420 | C122_8.8 S1 M1LA2 | 125 | C122_8.8 P80 BN80A2 | 126 |
| 325 | 21 | 2.2 | 4.3 | 1370 | C122_4.3 S2 M2SA4 | 125 | C122_4.3 P80 BN80B4 | 126 |
| 332 | 20 | 2.1 | 2.8 | 1390 | C122_2.8 S2 M2SB6 | 125 | C122_2.8 P90 BN90S6 | 126 |
| 367 | 19 | 2.4 | 7.6 | 1380 | C122_7.6 S1 M1LA2 | 125 | C122_7.6 P80 BN80A2 | 126 |
| 383 | 18 | 2.4 | 3.7 | 1330 | C122_3.7 S2 M2SA4 | 125 | C122_3.7 P80 BN80B4 | 126 |
| 436 | 16 | 2.6 | 3.2 | 1280 | C122_3.2 S2 M2SA4 | 125 | C122_3.2 P80 BN80B4 | 126 |
| 449 | 15 | 2.8 | 6.2 | 1280 | C122_6.2 S1 M1LA2 | 125 | C122_6.2 P80 BN80A2 | 126 |
| 506 | 13 | 2.8 | 2.8 | 1230 | C122_2.8 S2 M2SA4 | 125 | C122_2.8 P80 BN80B4 | 126 |
| 502 | 14 | 2.9 | 5.6 | 1240 | C122_5.6 S1 M1LA2 | 125 | C122_5.6 P80 BN80A2 | 126 |
| 575 | 12 | 3.2 | 4.9 | 1190 | C122_4.9 S1 M1LA2 | 125 | C122_4.9 P80 BN80A2 | 126 |
| 653 | 11 | 3.4 | 4.3 | 1050 | C122_4.3 S1 M1LA2 | 125 | C122_4.3 P80 BN80A2 | 126 |
| 767 | 9 | 3.8 | 3.7 | 1090 | C122_3.7 S1 M1LA2 | 125 | C122_3.7 P80 BN80A2 | 126 |
| 878 | 8 | 4.0 | 3.2 | 1050 | C122_3.2 S1 M1LA2 | 125 | C122_3.2 P80 BN80A2 | 126 |
| 1012 | 7 | 4.5 | 2.8 | 1010 | C122_2.8 S1 M1LA2 | 125 | C122_2.8 P80 BN80A2 | 126 |

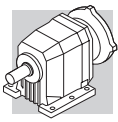
1.1 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 0.85 | 11232 | 1.1 | 1081 | 85000 | C1004_1081 S3 M3SA6 | 162 | C1004_1081 P90 BN90L6 | 163 |
| 1.0 | 9437 | 1.3 | 908.2 | 85000 | C1004_908.2 S3 M3SA6 | 162 | C1004_908.2 P90 BN90L6 | 163 |
| 1.2 | 7764 | 0.9 | 1137 | 60000 | C904_1137 S2 M2SB4 | 159 | C904_1137 P90 BN90S4 | 160 |
| 1.3 | 7381 | 1.6 | 1081 | 85000 | C1004_1081 S2 M2SB4 | 162 | C1004_1081 P90 BN90S4 | 163 |
| 1.4 | 6869 | 1.0 | 1006 | 60000 | C904_1006 S2 M2SB4 | 159 | C904_1006 P90 BN90S4 | 160 |
| 1.4 | 6856 | 1.8 | 1004 | 85000 | C1004_1004 S2 M2SB4 | 162 | C1004_1004 P90 BN90S4 | 163 |
| 1.7 | 5763 | 1.2 | 844.0 | 60000 | C904_844.0 S2 M2SB4 | 159 | C904_844.0 P90 BN90S4 | 160 |
| 1.7 | 5758 | 2.1 | 843.3 | 85000 | C1004_843.3 S2 M2SB4 | 162 | C1004_843.3 P90 BN90S4 | 163 |
| 2.1 | 4457 | 1.6 | 652.8 | 60000 | C904_652.8 S2 M2SB4 | 159 | C904_652.8 P90 BN90S4 | 160 |

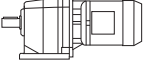






1.1 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 2.2 | 4284 | 2.8 | 627.4 | 85000 | C1004_627.4 S2 M2SB4 | 162 | C1004_627.4 P90 BN90S4 | 163 |
| 2.6 | 3648 | 2.0 | 534.2 | 60000 | C904_534.2 S2 M2SB4 | 159 | C904_534.2 P90 BN90S4 | 160 |
| 2.6 | 3614 | 1.1 | 529.3 | 35000 | C804_529.3 S2 M2SB4 | 156 | C804_529.3 P90 BN90S4 | 157 |
| 3.3 | 2861 | 2.5 | 419.0 | 60000 | C904_419.0 S2 M2SB4 | 159 | C904_419.0 P90 BN90S4 | 160 |
| 3.4 | 2851 | 1.4 | 417.5 | 35000 | C804_417.5 S2 M2SB4 | 156 | C804_417.5 P90 BN90S4 | 157 |
| 3.8 | 2490 | 1.6 | 364.7 | 35000 | C804_364.7 S2 M2SB4 | 156 | C804_364.7 P90 BN90S4 | 157 |
| 4.1 | 2351 | 1.0 | 344.3 | 25000 | C704_344.3 S2 M2SB4 | 153 | C704_344.3 P90 BN90S4 | 154 |
| 4.2 | 2283 | 1.8 | 334.3 | 35000 | C804_334.3 S2 M2SB4 | 156 | C804_334.3 P90 BN90S4 | 157 |
| 4.4 | 2171 | 1.1 | 317.9 | 25000 | C704_317.9 S2 M2SB4 | 153 | C704_317.9 P90 BN90S4 | 154 |
| 4.6 | 2060 | 0.8 | 301.7 | 16000 | C614_301.7 S2 M2SB4 | 149 | C614_301.7 P90 BN90S4 | 150 |
| 4.9 | 1951 | 2.1 | 285.7 | 35000 | C804_285.7 S2 M2SB4 | 156 | C804_285.7 P90 BN90S4 | 157 |
| 5.1 | 1880 | 0.9 | 275.3 | 16000 | C614_275.3 S2 M2SB4 | 149 | C614_275.3 P90 BN90S4 | 150 |
| 5.1 | 1859 | 1.2 | 272.2 | 25000 | C704_272.2 S2 M2SB4 | 153 | C704_272.2 P90 BN90S4 | 154 |
| 5.6 | 1716 | 1.3 | 251.3 | 25000 | C704_251.3 S2 M2SB4 | 153 | C704_251.3 P90 BN90S4 | 154 |
| 5.6 | 1746 | 0.9 | 164.5 | 16000 | C613_164.5 S3 M3SA6 | 149 | C613_164.5 P90 BN90L6 | 150 |
| 6.1 | 1593 | 1.0 | 150.0 | 16000 | C613_150.0 S3 M3SA6 | 149 | C613_150.0 P90 BN90L6 | 150 |
| 6.3 | 1542 | 1.5 | 220.9 | 25000 | C703_220.9 S2 M2SB4 | 153 | C703_220.9 P90 BN90S4 | 154 |
| 7.2 | 1366 | 1.2 | 195.8 | 16000 | C613_195.8 S2 M2SB4 | 149 | C613_195.8 P90 BN90S4 | 150 |
| 7.8 | 1250 | 1.8 | 179.2 | 25000 | C703_179.2 S2 M2SB4 | 153 | C703_179.2 P90 BN90S4 | 154 |
| 7.8 | 1246 | 1.3 | 178.6 | 16000 | C613_178.6 S2 M2SB4 | 149 | C613_178.6 P90 BN90S4 | 150 |
| 8.5 | 1148 | 1.4 | 164.5 | 16000 | C613_164.5 S2 M2SB4 | 149 | C613_164.5 P90 BN90S4 | 150 |
| 9.3 | 1049 | 2.2 | 150.3 | 25000 | C703_150.3 S2 M2SB4 | 153 | C703_150.3 P90 BN90S4 | 154 |
| 9.3 | 1047 | 1.5 | 150.0 | 16000 | C613_150.0 S2 M2SB4 | 149 | C613_150.0 P90 BN90S4 | 150 |
| 9.5 | 1029 | 1.0 | 147.4 | 10000 | C513_147.4 S2 M2SB4 | 145 | C513_147.4 P90 BN90S4 | 146 |
| 10.0 | 980 | 1.6 | 140.5 | 16000 | C613_140.5 S2 M2SB4 | 149 | C613_140.5 P90 BN90S4 | 150 |
| 10.4 | 939 | 1.1 | 134.6 | 10000 | C513_134.6 S2 M2SB4 | 145 | C513_134.6 P90 BN90S4 | 146 |
| 10.9 | 894 | 1.8 | 128.1 | 16000 | C613_128.1 S2 M2SB4 | 149 | C613_128.1 P90 BN90S4 | 150 |
| 11.0 | 885 | 2.6 | 126.8 | 25000 | C703_126.8 S2 M2SB4 | 153 | C703_126.8 P90 BN90S4 | 154 |
| 11.3 | 868 | 1.2 | 124.4 | 10000 | C513_124.4 S2 M2SB4 | 145 | C513_124.4 P90 BN90S4 | 146 |
| 12.3 | 793 | 2.0 | 113.6 | 16000 | C613_113.6 S2 M2SB4 | 149 | C613_113.6 P90 BN90S4 | 150 |
| 12.3 | 793 | 1.3 | 113.6 | 10000 | C513_113.6 S2 M2SB4 | 145 | C513_113.6 P90 BN90S4 | 146 |
| 12.5 | 785 | 2.9 | 112.4 | 25000 | C703_112.4 S2 M2SB4 | 153 | C703_112.4 P90 BN90S4 | 154 |
| 13.5 | 723 | 2.2 | 103.6 | 16000 | C613_103.6 S2 M2SB4 | 149 | C613_103.6 P90 BN90S4 | 150 |
| 13.8 | 710 | 1.4 | 101.8 | 10000 | C513_101.8 S2 M2SB4 | 145 | C513_101.8 P90 BN90S4 | 146 |
| 15.0 | 651 | 0.9 | 93.3 | 7000 | C413_93.3 S2 M2SB4 | 141 | C413_93.3 P90 BN90S4 | 142 |
| 15.1 | 649 | 1.5 | 93.0 | 10000 | C513_93.0 S2 M2SB4 | 145 | C513_93.0 P90 BN90S4 | 146 |
| 15.4 | 635 | 2.5 | 91.0 | 16000 | C613_91.0 S2 M2SB4 | 149 | C613_91.0 P90 BN90S4 | 150 |
| 16.9 | 579 | 2.8 | 83.0 | 16000 | C613_83.0 S2 M2SB4 | 149 | C613_83.0 P90 BN90S4 | 150 |
| 17.2 | 569 | 1.1 | 81.5 | 7000 | C413_81.5 S2 M2SB4 | 141 | C413_81.5 P90 BN90S4 | 142 |
| 17.5 | 557 | 1.8 | 79.9 | 10000 | C513_79.9 S2 M2SB4 | 145 | C513_79.9 P90 BN90S4 | 146 |
| 18.8 | 519 | 1.2 | 74.4 | 7000 | C413_74.4 S2 M2SB4 | 141 | C413_74.4 P90 BN90S4 | 142 |
| 18.9 | 518 | 3.1 | 74.2 | 16000 | C613_74.2 S2 M2SB4 | 149 | C613_74.2 P90 BN90S4 | 150 |
| 19.2 | 509 | 2.0 | 72.9 | 10000 | C513_72.9 S2 M2SB4 | 145 | C513_72.9 P90 BN90S4 | 146 |
| 19.8 | 494 | 0.9 | 70.8 | 6500 | C363_70.8 S2 M2SB4 | 137 | C363_70.8 P90 BN90S4 | 138 |
| 20.7 | 472 | 3.4 | 67.7 | 16000 | C613_67.7 S2 M2SB4 | 149 | C613_67.7 P90 BN90S4 | 150 |
| 21.7 | 451 | 2.2 | 64.6 | 10000 | C513_64.6 S2 M2SB4 | 145 | C513_64.6 P90 BN90S4 | 146 |
| 21.8 | 449 | 1.3 | 64.3 | 7000 | C413_64.3 S2 M2SB4 | 141 | C413_64.3 P90 BN90S4 | 142 |
| 22.6 | 433 | 1.0 | 62.0 | 6500 | C363_62.0 S2 M2SB4 | 137 | C363_62.0 P90 BN90S4 | 138 |
| 23.7 | 412 | 2.4 | 59.0 | 10000 | C513_59.0 S2 M2SB4 | 145 | C513_59.0 P90 BN90S4 | 146 |
| 23.9 | 409 | 1.5 | 58.7 | 7000 | C413_58.7 S2 M2SB4 | 141 | C413_58.7 P90 BN90S4 | 142 |
| 24.6 | 406 | 1.9 | 57.0 | 10000 | C512_57.0 S2 M2SB4 | 145 | C512_57.0 P90 BN90S4 | 146 |

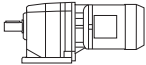





1.1 kW

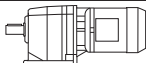



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 24.9 | 392 | 1.1 | 56.2 | 6500 | C363_56.2 S2 M2SB4 | 137 | C363_56.2 P90 BN90S4 | 138 |
| 27.2 | 359 | 1.7 | 51.5 | 7000 | C413_51.5 S2 M2SB4 | 141 | C413_51.5 P90 BN90S4 | 142 |
| 27.2 | 366 | 1.9 | 51.4 | 10000 | C512_51.4 S2 M2SB4 | 145 | C512_51.4 P90 BN90S4 | 146 |
| 27.4 | 357 | 2.8 | 51.2 | 10000 | C513_51.2 S2 M2SB4 | 145 | C513_51.2 P90 BN90S4 | 146 |
| 29.1 | 336 | 1.3 | 48.2 | 6500 | C363_48.2 S2 M2SB4 | 137 | C363_48.2 P90 BN90S4 | 138 |
| 29.3 | 341 | 2.3 | 47.8 | 10000 | C512_47.8 S2 M2SB4 | 145 | C512_47.8 P90 BN90S4 | 146 |
| 29.8 | 328 | 1.8 | 47.0 | 7000 | C413_47.0 S2 M2SB4 | 141 | C413_47.0 P90 BN90S4 | 142 |
| 30 | 326 | 3.1 | 46.7 | 10000 | C513_46.7 S2 M2SB4 | 145 | C513_46.7 P90 BN90S4 | 146 |
| 31 | 319 | 1.6 | 44.8 | 7000 | C412_44.8 S2 M2SB4 | 141 | C412_44.8 P90 BN90S4 | 142 |
| 31 | 322 | 0.9 | 45.3 | 5500 | C322_45.3 S2 M2SB4 | 133 | C322_45.3 P90 BN90S4 | 134 |
| 32 | 307 | 2.5 | 43.1 | 10000 | C512_43.1 S2 M2SB4 | 145 | C512_43.1 P90 BN90S4 | 146 |
| 32 | 303 | 1.5 | 43.5 | 6500 | C363_43.5 S2 M2SB4 | 137 | C363_43.5 P90 BN90S4 | 138 |
| 34 | 290 | 1.0 | 40.7 | 5500 | C322_40.7 S2 M2SB4 | 133 | C322_40.7 P90 BN90S4 | 134 |
| 35 | 288 | 2.8 | 40.4 | 10000 | C512_40.4 S2 M2SB4 | 145 | C512_40.4 P90 BN90S4 | 146 |
| 35 | 281 | 2.1 | 40.3 | 7000 | C413_40.3 S2 M2SB4 | 141 | C413_40.3 P90 BN90S4 | 142 |
| 37 | 266 | 1.7 | 38.1 | 6500 | C363_38.1 S2 M2SB4 | 137 | C363_38.1 P90 BN90S4 | 138 |
| 38 | 257 | 2.3 | 36.8 | 7000 | C413_36.8 S2 M2SB4 | 141 | C413_36.8 P90 BN90S4 | 142 |
| 38 | 264 | 1.9 | 37.1 | 7000 | C412_37.1 S2 M2SB4 | 141 | C412_37.1 P90 BN90S4 | 142 |
| 39 | 257 | 1.2 | 36.1 | 5500 | C322_36.1 S2 M2SB4 | 133 | C322_36.1 P90 BN90S4 | 134 |
| 40 | 241 | 1.9 | 34.6 | 6300 | C363_34.6 S2 M2SB4 | 137 | C363_34.6 P90 BN90S4 | 138 |
| 42 | 238 | 2.1 | 33.4 | 7000 | C412_33.4 S2 M2SB4 | 141 | C412_33.4 P90 BN90S4 | 142 |
| 42 | 236 | 1.3 | 33.1 | 5420 | C322_33.1 S2 M2SB4 | 133 | C322_33.1 P90 BN90S4 | 134 |
| 45 | 224 | 2.2 | 31.4 | 7000 | C412_31.4 S2 M2SB4 | 141 | C412_31.4 P90 BN90S4 | 142 |
| 45 | 218 | 2.6 | 31.2 | 7000 | C413_31.2 S2 M2SB4 | 141 | C413_31.2 P90 BN90S4 | 142 |
| 47 | 212 | 1.4 | 29.8 | 5360 | C322_29.8 S2 M2SB4 | 133 | C322_29.8 P90 BN90S4 | 134 |
| 47 | 211 | 0.9 | 29.6 | 3190 | C222_29.6 S2 M2SB4 | 129 | C222_29.6 P90 BN90S4 | 130 |
| 49 | 199 | 2.8 | 28.5 | 7000 | C413_28.5 S2 M2SB4 | 141 | C413_28.5 P90 BN90S4 | 142 |
| 49 | 202 | 2.5 | 28.3 | 7000 | C412_28.3 S2 M2SB4 | 141 | C412_28.3 P90 BN90S4 | 142 |
| 49 | 200 | 2.2 | 28.7 | 6190 | C363_28.7 S2 M2SB4 | 137 | C363_28.7 P90 BN90S4 | 138 |
| 52 | 193 | 1.0 | 27.2 | 3160 | C222_27.2 S2 M2SB4 | 129 | C222_27.2 P90 BN90S4 | 130 |
| 52 | 192 | 1.6 | 26.9 | 5220 | C322_26.9 S2 M2SB4 | 133 | C322_26.9 P90 BN90S4 | 134 |
| 53 | 183 | 2.4 | 26.2 | 5930 | C363_26.2 S2 M2SB4 | 137 | C363_26.2 P90 BN90S4 | 138 |
| 56 | 179 | 1.7 | 25.1 | 5180 | C322_25.1 S2 M2SB4 | 133 | C322_25.1 P90 BN90S4 | 134 |
| 58 | 173 | 1.2 | 24.3 | 3150 | C222_24.3 S2 M2SB4 | 129 | C222_24.3 P90 BN90S4 | 130 |
| 61 | 163 | 1.8 | 22.9 | 5050 | C322_22.9 S2 M2SB4 | 133 | C322_22.9 P90 BN90S4 | 134 |
| 62 | 161 | 3.1 | 22.6 | 6810 | C412_22.6 S2 M2SB4 | 141 | C412_22.6 P90 BN90S4 | 142 |
| 63 | 154 | 2.8 | 22.1 | 5680 | C363_22.1 S2 M2SB4 | 137 | C363_22.1 P90 BN90S4 | 138 |
| 65 | 153 | 1.3 | 21.5 | 3120 | C222_21.5 S2 M2SB4 | 129 | C222_21.5 P90 BN90S4 | 130 |
| 70 | 143 | 2.1 | 20.1 | 4920 | C322_20.1 S2 M2SB4 | 133 | C322_20.1 P90 BN90S4 | 134 |
| 70 | 143 | 1.3 | 20.0 | 3080 | C222_20.0 S2 M2SB4 | 129 | C222_20.0 P90 BN90S4 | 130 |
| 74 | 135 | 2.8 | 19.0 | 5580 | C362_19.0 S2 M2SB4 | 137 | C362_19.0 P90 BN90S4 | 138 |
| 77 | 130 | 2.1 | 18.2 | 4760 | C322_18.2 S2 M2SB4 | 133 | C322_18.2 P90 BN90S4 | 134 |
| 77 | 129 | 1.4 | 18.1 | 3020 | C222_18.1 S2 M2SB4 | 129 | C222_18.1 P90 BN90S4 | 130 |
| 81 | 123 | 3.1 | 17.2 | 5300 | C362_17.2 S2 M2SB4 | 137 | C362_17.2 P90 BN90S4 | 138 |
| 88 | 113 | 1.6 | 15.8 | 2970 | C222_15.8 S2 M2SB4 | 129 | C222_15.8 P90 BN90S4 | 130 |
| 90 | 111 | 2.4 | 15.6 | 4630 | C322_15.6 S2 M2SB4 | 133 | C322_15.6 P90 BN90S4 | 134 |
| 96 | 104 | 1.6 | 14.5 | 2940 | C222_14.5 S2 M2SB4 | 129 | C222_14.5 P90 BN90S4 | 130 |
| 99 | 100 | 2.5 | 14.1 | 4480 | C322_14.1 S2 M2SB4 | 133 | C322_14.1 P90 BN90S4 | 134 |
| 113 | 88 | 1.8 | 12.4 | 2840 | C222_12.4 S2 M2SB4 | 129 | C222_12.4 P90 BN90S4 | 130 |
| 114 | 88 | 2.8 | 12.3 | 4350 | C322_12.3 S2 M2SB4 | 133 | C322_12.3 P90 BN90S4 | 134 |
| 125 | 80 | 2.9 | 11.2 | 4200 | C322_11.2 S2 M2SB4 | 133 | C322_11.2 P90 BN90S4 | 134 |

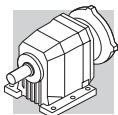


1.1 kW






| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 126 | 79 | 1.9 | 11.1 | 2800 | C222_11.1 S2 M2SB4 | 129 | C222_11.1 P90 BN90S4 | 130 |
| 139 | 72 | 0.9 | 10.1 | 1400 | C122_10.1 S2 M2SB4 | 125 | C122_10.1 P90 BN90S4 | 126 |
| 145 | 69 | 2.1 | 9.6 | 2700 | C222_9.6 S2 M2SB4 | 129 | C222_9.6 P90 BN90S4 | 130 |
| 151 | 66 | 3.3 | 9.3 | 4030 | C322_9.3 S2 M2SB4 | 133 | C322_9.3 P90 BN90S4 | 134 |
| 158 | 63 | 0.9 | 8.8 | 1560 | C122_8.8 S2 M2SB4 | 125 | C122_8.8 P90 BN90S4 | 126 |
| 162 | 62 | 2.2 | 8.7 | 2630 | C222_8.7 S2 M2SB4 | 129 | C222_8.7 P90 BN90S4 | 130 |
| 184 | 54 | 1.0 | 7.6 | 1550 | C122_7.6 S2 M2SB4 | 125 | C122_7.6 P90 BN90S4 | 126 |
| 198 | 50 | 2.6 | 7.1 | 2510 | C222_7.1 S2 M2SB4 | 129 | C222_7.1 P90 BN90S4 | 130 |
| 225 | 44 | 1.2 | 6.2 | 1220 | C122_6.2 S2 M2SB4 | 125 | C122_6.2 P90 BN90S4 | 126 |
| 230 | 43 | 2.4 | 6.1 | 2380 | C222_6.1 S2 M2SB4 | 129 | C222_6.1 P90 BN90S4 | 130 |
| 235 | 43 | 1.2 | 11.9 | 1420 | C122_11.9 S2 M2SA2 | 125 | C122_11.9 P80 BN80B2 | 126 |
| 250 | 40 | 1.3 | 5.6 | 1270 | C122_5.6 S2 M2SB4 | 125 | C122_5.6 P90 BN90S4 | 126 |
| 250 | 40 | 2.6 | 5.6 | 2350 | C222_5.6 S2 M2SB4 | 129 | C222_5.6 P90 BN90S4 | 130 |
| 252 | 40 | 3.0 | 11.1 | 2980 | C222_11.1 S2 M2SA2 | 129 | C222_11.1 P80 BN80B2 | 130 |
| 252 | 40 | 1.2 | 3.7 | 1320 | C122_3.7 S3 M3SA6 | 125 | C122_3.7 P90 BN90L6 | 126 |
| 278 | 36 | 1.4 | 10.1 | 1420 | C122_10.1 S2 M2SA2 | 125 | C122_10.1 P80 BN80B2 | 126 |
| 288 | 35 | 1.4 | 4.9 | 1370 | C122_4.9 S2 M2SB4 | 125 | C122_4.9 P90 BN90S4 | 126 |
| 294 | 34 | 2.9 | 4.8 | 2240 | C222_4.8 S2 M2SB4 | 129 | C222_4.8 P90 BN90S4 | 130 |
| 318 | 32 | 1.5 | 8.8 | 1370 | C122_8.8 S2 M2SA2 | 125 | C122_8.8 P80 BN80B2 | 126 |
| 325 | 31 | 1.5 | 4.3 | 1320 | C122_4.3 S2 M2SB4 | 125 | C122_4.3 P90 BN90S4 | 126 |
| 329 | 30 | 3.1 | 4.3 | 2200 | C222_4.3 S2 M2SB4 | 129 | C222_4.3 P90 BN90S4 | 130 |
| 332 | 30 | 1.4 | 2.8 | 1320 | C122_2.8 S3 M3SA6 | 125 | C122_2.8 P90 BN90L6 | 126 |
| 338 | 30 | 3.2 | 2.7 | 2160 | C222_2.7 S3 M3SA6 | 129 | C222_2.7 P90 BN90L6 | 130 |
| 367 | 27 | 1.7 | 7.6 | 1330 | C122_7.6 S2 M2SA2 | 125 | C122_7.6 P80 BN80B2 | 126 |
| 378 | 26 | 3.4 | 3.7 | 2090 | C222_3.7 S2 M2SB4 | 129 | C222_3.7 P90 BN90S4 | 130 |
| 383 | 26 | 1.6 | 3.7 | 1280 | C122_3.7 S2 M2SB4 | 125 | C122_3.7 P90 BN90S4 | 126 |
| 436 | 23 | 1.8 | 3.2 | 1230 | C122_3.2 S2 M2SB4 | 125 | C122_3.2 P90 BN90S4 | 126 |
| 449 | 22 | 1.9 | 6.2 | 1230 | C122_6.2 S2 M2SA2 | 125 | C122_6.2 P80 BN80B2 | 126 |
| 500 | 20 | 2.0 | 5.6 | 1190 | C122_5.6 S2 M2SA2 | 125 | C122_5.6 P80 BN80B2 | 126 |
| 506 | 20 | 1.9 | 2.8 | 1190 | C122_2.8 S2 M2SB4 | 125 | C122_2.8 P90 BN90S4 | 126 |
| 575 | 17 | 2.2 | 4.9 | 1150 | C122_4.9 S2 M2SA2 | 125 | C122_4.9 P80 BN80B2 | 126 |
| 651 | 16 | 2.3 | 4.3 | 1110 | C122_4.3 S2 M2SA2 | 125 | C122_4.3 P80 BN80B2 | 126 |
| 767 | 13 | 2.6 | 3.7 | 1070 | C122_3.7 S2 M2SA2 | 125 | C122_3.7 P80 BN80B2 | 126 |
| 875 | 12 | 1.5 | 3.2 | 1020 | C122_3.2 S2 M2SA2 | 125 | C122_3.2 P80 BN80B2 | 126 |
| 1012 | 10 | 3.0 | 2.8 | 980 | C122_2.8 S2 M2SA2 | 125 | C122_2.8 P80 BN80B2 | 126 |

1.5 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 1.0 | 12595 | 1.0 | 908.2 | 85000 | C1004_908.2 S3 M3LA6 | 162 | C1004_908.2 P100 BN100LA6 | 163 |
| 1.3 | 9994 | 1.2 | 1081 | 85000 | C1004_1081 S3 M3SA4 | 162 | C1004_1081 P90 BN90LA4 | 163 |
| 1.6 | 8397 | 1.4 | 908.2 | 85000 | C1004_908.2 S3 M3SA4 | 162 | C1004_908.2 P90 BN90LA4 | 163 |
| 1.7 | 7803 | 0.9 | 844.0 | 60000 | C904_844.0 S3 M3SA4 | 159 | C904_844.0 P90 BN90LA4 | 160 |
| 2.0 | 6659 | 1.8 | 720.3 | 85000 | C1004_720.3 S3 M3SA4 | 162 | C1004_720.3 P90 BN90LA4 | 163 |
| 2.0 | 6584 | 1.1 | 712.2 | 60000 | C904_712.2 S3 M3SA4 | 159 | C904_712.2 P90 BN90LA4 | 160 |
| 2.6 | 4939 | 1.5 | 534.2 | 60000 | C904_534.2 S3 M3SA4 | 159 | C904_534.2 P90 BN90LA4 | 160 |
| 3.1 | 4226 | 1.7 | 457.1 | 60000 | C904_457.1 S3 M3SA4 | 159 | C904_457.1 P90 BN90LA4 | 160 |
| 3.1 | 4210 | 1.0 | 455.4 | 35000 | C804_455.4 S3 M3SA4 | 156 | C804_455.4 P90 BN90LA4 | 157 |

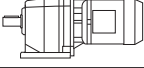






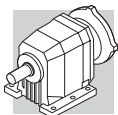
1.5 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 3.4 | 3874 | 1.9 | 419.0 | 60000 | C904_419.0 S3 M3SA4 | 159 | C904_419.0 P90 BN90LA4 | 160 |
| 3.4 | 3860 | 1.0 | 417.5 | 35000 | C804_417.5 S3 M3SA4 | 156 | C804_417.5 P90 BN90LA4 | 157 |
| 4.2 | 3134 | 2.3 | 339.0 | 60000 | C904_339.0 S3 M3SA4 | 159 | C904_339.0 P90 BN90LA4 | 160 |
| 4.2 | 3091 | 1.3 | 334.3 | 35000 | C804_334.3 S3 M3SA4 | 156 | C804_334.3 P90 BN90LA4 | 157 |
| 4.8 | 2708 | 2.7 | 292.9 | 60000 | C904_292.9 S3 M3SA4 | 159 | C904_292.9 P90 BN90LA4 | 160 |
| 4.9 | 2641 | 1.5 | 285.7 | 35000 | C804_285.7 S3 M3SA4 | 156 | C804_285.7 P90 BN90LA4 | 157 |
| 5.2 | 2517 | 0.9 | 272.2 | 25000 | C704_272.2 S3 M3SA4 | 153 | C704_272.2 P90 BN90LA4 | 154 |
| 5.4 | 2421 | 1.7 | 261.9 | 35000 | C804_261.9 S3 M3SA4 | 156 | C804_261.9 P90 BN90LA4 | 157 |
| 5.6 | 2323 | 1.0 | 251.3 | 25000 | C704_251.3 S3 M3SA4 | 153 | C704_251.3 P90 BN90LA4 | 154 |
| 5.9 | 2261 | 1.0 | 239.3 | 25000 | C703_239.3 S3 M3SA4 | 153 | C703_239.3 P90 BN90LA4 | 154 |
| 6.5 | 2010 | 0.8 | 217.4 | 16000 | C614_217.4 S3 M3SA4 | 149 | C614_217.4 P90 BN90LA4 | 150 |
| 6.5 | 2039 | 2.0 | 215.8 | 35000 | C803_215.8 S3 M3SA4 | 156 | C803_215.8 P90 BN90LA4 | 157 |
| 7.3 | 1834 | 1.3 | 194.1 | 25000 | C703_194.1 S3 M3SA4 | 153 | C703_194.1 P90 BN90LA4 | 154 |
| 7.9 | 1693 | 1.4 | 179.2 | 25000 | C703_179.2 S3 M3SA4 | 153 | C703_179.2 P90 BN90LA4 | 154 |
| 7.9 | 1687 | 0.9 | 178.6 | 16000 | C613_178.6 S3 M3SA4 | 149 | C613_178.6 P90 BN90LA4 | 150 |
| 8.3 | 1597 | 2.5 | 169.0 | 35000 | C803_169.0 S3 M3SA4 | 156 | C803_169.0 P90 BN90LA4 | 157 |
| 8.6 | 1554 | 1.0 | 164.5 | 16000 | C613_164.5 S3 M3SA4 | 149 | C613_164.5 P90 BN90LA4 | 150 |
| 9.4 | 1420 | 1.6 | 150.3 | 25000 | C703_150.3 S3 M3SA4 | 153 | C703_150.3 P90 BN90LA4 | 154 |
| 9.4 | 1418 | 1.1 | 150.0 | 16000 | C613_150.0 S3 M3SA4 | 149 | C613_150.0 P90 BN90LA4 | 150 |
| 9.5 | 1409 | 2.8 | 149.1 | 35000 | C803_149.1 S3 M3SA4 | 156 | C803_149.1 P90 BN90LA4 | 157 |
| 10.0 | 1327 | 1.2 | 140.5 | 16000 | C613_140.5 S3 M3SA4 | 149 | C613_140.5 P90 BN90LA4 | 150 |
| 10.3 | 1298 | 1.8 | 137.4 | 25000 | C703_137.4 S3 M3SA4 | 153 | C703_137.4 P90 BN90LA4 | 154 |
| 10.3 | 1291 | 3.1 | 136.7 | 35000 | C803_136.7 S3 M3SA4 | 156 | C803_136.7 P90 BN90LA4 | 157 |
| 11.0 | 1211 | 1.3 | 128.1 | 16000 | C613_128.1 S3 M3SA4 | 149 | C613_128.1 P90 BN90LA4 | 150 |
| 11.1 | 1198 | 1.9 | 126.8 | 25000 | C703_126.8 S3 M3SA4 | 153 | C703_126.8 P90 BN90LA4 | 154 |
| 12.4 | 1073 | 1.5 | 113.6 | 16000 | C613_113.6 S3 M3SA4 | 149 | C613_113.6 P90 BN90LA4 | 150 |
| 12.4 | 1073 | 0.9 | 113.6 | 10000 | C513_113.6 S3 M3SA4 | 145 | C513_113.6 P90 BN90LA4 | 146 |
| 13.6 | 981 | 2.3 | 103.8 | 25000 | C703_103.8 S3 M3SA4 | 153 | C703_103.8 P90 BN90LA4 | 154 |
| 13.6 | 979 | 1.6 | 103.6 | 16000 | C613_103.6 S3 M3SA4 | 149 | C613_103.6 P90 BN90LA4 | 150 |
| 13.8 | 962 | 1.0 | 101.8 | 10000 | C513_101.8 S3 M3SA4 | 145 | C513_101.8 P90 BN90LA4 | 146 |
| 15.2 | 878 | 1.1 | 93.0 | 10000 | C513_93.0 S3 M3SA4 | 145 | C513_93.0 P90 BN90LA4 | 146 |
| 15.5 | 860 | 1.9 | 91.0 | 16000 | C613_91.0 S3 M3SA4 | 149 | C613_91.0 P90 BN90LA4 | 150 |
| 16.0 | 833 | 2.8 | 88.2 | 25000 | C703_88.2 S3 M3SA4 | 153 | C703_88.2 P90 BN90LA4 | 154 |
| 16.5 | 826 | 1.0 | 57.0 | 10000 | C512_57.0 S3 M3LA6 | 145 | C512_57.0 P100 BN100LA6 | 146 |
| 17.0 | 785 | 2.0 | 83.0 | 16000 | C613_83.0 S3 M3SA4 | 149 | C613_83.0 P90 BN90LA4 | 150 |
| 17.3 | 769 | 3.0 | 81.4 | 25000 | C703_81.4 S3 M3SA4 | 153 | C703_81.4 P90 BN90LA4 | 154 |
| 17.7 | 755 | 1.3 | 79.9 | 10000 | C513_79.9 S3 M3SA4 | 145 | C513_79.9 P90 BN90LA4 | 146 |
| 18.3 | 744 | 1.0 | 51.4 | 10000 | C512_51.4 S3 M3LA6 | 145 | C512_51.4 P100 BN100LA6 | 146 |
| 19.0 | 701 | 2.3 | 74.2 | 16000 | C613_74.2 S3 M3SA4 | 149 | C613_74.2 P90 BN90LA4 | 150 |
| 19.3 | 689 | 1.5 | 72.9 | 10000 | C513_72.9 S3 M3SA4 | 145 | C513_72.9 P90 BN90LA4 | 146 |
| 19.7 | 692 | 1.2 | 47.8 | 10000 | C512_47.8 S3 M3LA6 | 145 | C512_47.8 P100 BN100LA6 | 146 |
| 19.8 | 674 | 3.4 | 71.3 | 25000 | C703_71.3 S3 M3SA4 | 153 | C703_71.3 P90 BN90LA4 | 154 |
| 20.8 | 640 | 2.5 | 67.7 | 16000 | C613_67.7 S3 M3SA4 | 149 | C613_67.7 P90 BN90LA4 | 150 |
| 21.8 | 624 | 1.3 | 43.1 | 10000 | C512_43.1 S3 M3LA6 | 145 | C512_43.1 P100 BN100LA6 | 146 |
| 21.8 | 610 | 1.6 | 64.6 | 10000 | C513_64.6 S3 M3SA4 | 145 | C513_64.6 P90 BN90LA4 | 146 |
| 21.9 | 607 | 1.0 | 64.3 | 7000 | C413_64.3 S3 M3SA4 | 141 | C413_64.3 P90 BN90LA4 | 142 |
| 23.9 | 557 | 1.8 | 59.0 | 10000 | C513_59.0 S3 M3SA4 | 145 | C513_59.0 P90 BN90LA4 | 146 |
| 24.0 | 554 | 1.1 | 58.7 | 7000 | C413_58.7 S3 M3SA4 | 141 | C413_58.7 P90 BN90LA4 | 142 |
| 24.1 | 554 | 2.9 | 58.6 | 16000 | C613_58.6 S3 M3SA4 | 149 | C613_58.6 P90 BN90LA4 | 150 |
| 24.7 | 550 | 1.4 | 57.0 | 10000 | C512_57.0 S3 M3SA4 | 145 | C512_57.0 P90 BN90LA4 | 146 |
| 26.4 | 505 | 3.2 | 53.5 | 16000 | C613_53.5 S3 M3SA4 | 149 | C613_53.5 P90 BN90LA4 | 150 |







1.5 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 27.4 | 486 | 1.2 | 51.5 | 7000 | C413_51.5 S3 M3SA4 | 141 | C413_51.5 P90 BN90LA4 | 142 |
| 27.4 | 496 | 1.4 | 51.4 | 10000 | C512_51.4 S3 M3SA4 | 145 | C512_51.4 P90 BN90LA4 | 146 |
| 27.6 | 483 | 2.1 | 51.2 | 10000 | C513_51.2 S3 M3SA4 | 145 | C513_51.2 P90 BN90LA4 | 146 |
| 29.3 | 457 | 1.0 | 48.2 | 6290 | C363_48.2 S3 M3SA4 | 137 | C363_48.2 P90 BN90LA4 | 138 |
| 29.5 | 462 | 1.7 | 47.8 | 10000 | C512_47.8 S3 M3SA4 | 145 | C512_47.8 P90 BN90LA4 | 146 |
| 30 | 444 | 1.4 | 47.0 | 7000 | C413_47.0 S3 M3SA4 | 141 | C413_47.0 P90 BN90LA4 | 142 |
| 30 | 441 | 2.3 | 46.7 | 10000 | C513_46.7 S3 M3SA4 | 145 | C513_46.7 P90 BN90LA4 | 146 |
| 32 | 432 | 1.2 | 44.8 | 7000 | C412_44.8 S3 M3SA4 | 141 | C412_44.8 P90 BN90LA4 | 142 |
| 32 | 412 | 1.1 | 43.5 | 6110 | C363_43.5 S3 M3SA4 | 137 | C363_43.5 P90 BN90LA4 | 138 |
| 33 | 416 | 1.9 | 43.1 | 10000 | C512_43.1 S3 M3SA4 | 145 | C512_43.1 P90 BN90LA4 | 146 |
| 35 | 382 | 2.6 | 40.5 | 10000 | C513_40.5 S3 M3SA4 | 145 | C513_40.5 P90 BN90LA4 | 146 |
| 35 | 390 | 2.0 | 40.4 | 10000 | C512_40.4 S3 M3SA4 | 145 | C512_40.4 P90 BN90LA4 | 146 |
| 35 | 381 | 1.6 | 40.3 | 7000 | C413_40.3 S3 M3SA4 | 141 | C413_40.3 P90 BN90LA4 | 142 |
| 37 | 361 | 1.2 | 38.1 | 6110 | C363_38.1 S3 M3SA4 | 137 | C363_38.1 P90 BN90LA4 | 138 |
| 38 | 358 | 1.4 | 37.1 | 7000 | C412_37.1 S3 M3SA4 | 141 | C412_37.1 P90 BN90LA4 | 142 |
| 38 | 348 | 1.7 | 36.8 | 7000 | C413_36.8 S3 M3SA4 | 141 | C413_36.8 P90 BN90LA4 | 142 |
| 39 | 351 | 2.2 | 36.4 | 10000 | C512_36.4 S3 M3SA4 | 145 | C512_36.4 P90 BN90LA4 | 146 |
| 39 | 350 | 0.9 | 36.1 | 5100 | C322_36.1 S3 M3SA4 | 133 | C322_36.1 P90 BN90LA4 | 134 |
| 41 | 328 | 1.4 | 34.6 | 5950 | C363_34.6 S3 M3SA4 | 137 | C363_34.6 P90 BN90LA4 | 138 |
| 42 | 322 | 1.6 | 33.4 | 7000 | C412_33.4 S3 M3SA4 | 141 | C412_33.4 P90 BN90LA4 | 142 |
| 43 | 319 | 2.5 | 33.0 | 10000 | C512_33.0 S3 M3SA4 | 145 | C512_33.0 P90 BN90LA4 | 146 |
| 43 | 321 | 0.9 | 33.1 | 5050 | C322_33.1 S3 M3SA4 | 133 | C322_33.1 P90 BN90LA4 | 134 |
| 45 | 303 | 1.6 | 31.4 | 6990 | C412_31.4 S3 M3SA4 | 141 | C412_31.4 P90 BN90LA4 | 142 |
| 45 | 295 | 1.9 | 31.2 | 7000 | C413_31.2 S3 M3SA4 | 141 | C413_31.2 P90 BN90LA4 | 142 |
| 47 | 287 | 2.8 | 29.8 | 10000 | C512_29.8 S3 M3SA4 | 145 | C512_29.8 P90 BN90LA4 | 146 |
| 47 | 288 | 1.0 | 29.8 | 4970 | C322_29.8 S3 M3SA4 | 133 | C322_29.8 P90 BN90LA4 | 134 |
| 49 | 272 | 1.7 | 28.7 | 5830 | C363_28.7 S3 M3SA4 | 137 | C363_28.7 P90 BN90LA4 | 138 |
| 50 | 273 | 1.8 | 28.3 | 6830 | C412_28.3 S3 M3SA4 | 141 | C412_28.3 P90 BN90LA4 | 142 |
| 52 | 261 | 1.2 | 26.9 | 4890 | C322_26.9 S3 M3SA4 | 133 | C322_26.9 P90 BN90LA4 | 134 |
| 54 | 250 | 3.2 | 25.9 | 10000 | C512_25.9 S3 M3SA4 | 145 | C512_25.9 P90 BN90LA4 | 146 |
| 54 | 249 | 1.8 | 26.2 | 5710 | C363_26.2 S3 M3SA4 | 137 | C363_26.2 P90 BN90LA4 | 138 |
| 56 | 242 | 2.1 | 25.0 | 6680 | C412_25.0 S3 M3SA4 | 141 | C412_25.0 P90 BN90LA4 | 142 |
| 56 | 243 | 1.2 | 25.1 | 4840 | C322_25.1 S3 M3SA4 | 133 | C322_25.1 P90 BN90LA4 | 134 |
| 62 | 222 | 1.3 | 22.9 | 4750 | C322_22.9 S3 M3SA4 | 133 | C322_22.9 P90 BN90LA4 | 134 |
| 63 | 218 | 2.3 | 22.6 | 6510 | C412_22.6 S3 M3SA4 | 141 | C412_22.6 P90 BN90LA4 | 142 |
| 64 | 210 | 2.0 | 22.1 | 5530 | C363_22.1 S3 M3SA4 | 137 | C363_22.1 P90 BN90LA4 | 138 |
| 66 | 208 | 0.9 | 21.5 | 2600 | C222_21.5 S3 M3SA4 | 129 | C222_21.5 P90 BN90LA4 | 130 |
| 70 | 195 | 1.5 | 20.1 | 4650 | C322_20.1 S3 M3SA4 | 133 | C322_20.1 P90 BN90LA4 | 134 |
| 70 | 194 | 1.0 | 20.0 | 2740 | C222_20.0 S3 M3SA4 | 129 | C222_20.0 P90 BN90LA4 | 130 |
| 71 | 191 | 2.5 | 19.8 | 6330 | C412_19.8 S3 M3SA4 | 141 | C412_19.8 P90 BN90LA4 | 142 |
| 74 | 184 | 2.1 | 19.0 | 5330 | C362_19.0 S3 M3SA4 | 137 | C362_19.0 P90 BN90LA4 | 138 |
| 78 | 176 | 1.6 | 18.2 | 4520 | C322_18.2 S3 M3SA4 | 133 | C322_18.2 P90 BN90LA4 | 134 |
| 78 | 176 | 1.0 | 18.1 | 2700 | C222_18.1 S3 M3SA4 | 129 | C222_18.1 P90 BN90LA4 | 130 |
| 79 | 172 | 2.8 | 17.8 | 6160 | C412_17.8 S3 M3SA4 | 141 | C412_17.8 P90 BN90LA4 | 142 |
| 82 | 167 | 2.3 | 17.2 | 5140 | C362_17.2 S3 M3SA4 | 137 | C362_17.2 P90 BN90LA4 | 138 |
| 89 | 153 | 2.9 | 15.8 | 6000 | C412_15.8 S3 M3SA4 | 141 | C412_15.8 P90 BN90LA4 | 142 |
| 89 | 153 | 1.1 | 15.8 | 2700 | C222_15.8 S3 M3SA4 | 129 | C222_15.8 P90 BN90LA4 | 130 |
| 90 | 151 | 1.8 | 15.6 | 4410 | C322_15.6 S3 M3SA4 | 133 | C322_15.6 P90 BN90LA4 | 134 |
| 96 | 143 | 2.7 | 14.8 | 5030 | C362_14.8 S3 M3SA4 | 137 | C362_14.8 P90 BN90LA4 | 138 |
| 97 | 141 | 1.2 | 14.5 | 2700 | C222_14.5 S3 M3SA4 | 129 | C222_14.5 P90 BN90LA4 | 130 |
| 99 | 137 | 3.2 | 14.2 | 5830 | C412_14.2 S3 M3SA4 | 141 | C412_14.2 P90 BN90LA4 | 142 |

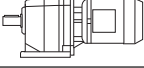





1.5 kW

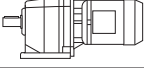



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 100 | 136 | 1.8 | 14.1 | 4280 | C322_14.1 S3 M3SA4 | 133 | C322_14.1 P90 BN90LA4 | 134 |
| 106 | 129 | 2.9 | 13.3 | 4890 | C362_13.3 S3 M3SA4 | 137 | C362_13.3 P90 BN90LA4 | 138 |
| 114 | 120 | 1.3 | 12.4 | 2630 | C222_12.4 S3 M3SA4 | 129 | C222_12.4 P90 BN90LA4 | 130 |
| 114 | 119 | 2.1 | 12.3 | 4180 | C322_12.3 S3 M3SA4 | 133 | C322_12.3 P90 BN90LA4 | 134 |
| 121 | 113 | 3.4 | 11.7 | 4740 | C362_11.7 S3 M3SA4 | 137 | C362_11.7 P90 BN90LA4 | 138 |
| 126 | 109 | 2.1 | 11.2 | 4050 | C322_11.2 S3 M3SA4 | 133 | C322_11.2 P90 BN90LA4 | 134 |
| 127 | 107 | 1.4 | 11.1 | 2600 | C222_11.1 S3 M3SA4 | 129 | C222_11.1 P90 BN90LA4 | 130 |
| 146 | 93 | 1.6 | 9.6 | 2530 | C222_9.6 S3 M3SA4 | 129 | C222_9.6 P90 BN90LA4 | 130 |
| 152 | 90 | 2.4 | 9.3 | 3900 | C322_9.3 S3 M3SA4 | 133 | C322_9.3 P90 BN90LA4 | 134 |
| 163 | 84 | 1.6 | 8.7 | 2470 | C222_8.7 S3 M3SA4 | 129 | C222_8.7 P90 BN90LA4 | 130 |
| 166 | 82 | 2.5 | 8.5 | 3790 | C322_8.5 S3 M3SA4 | 133 | C322_8.5 P90 BN90LA4 | 134 |
| 177 | 77 | 1.8 | 15.8 | 2440 | C222_15.8 S2 M2SB2 | 129 | C222_15.8 P90 BN90SA2 | 130 |
| 190 | 72 | 2.3 | 5.0 | 3610 | C322_5.0 S3 M3LA6 | 133 | C322_5.0 P100 BN100LA6 | 134 |
| 197 | 69 | 2.9 | 7.2 | 3640 | C322_7.2 S3 M3SA4 | 133 | C322_7.2 P90 BN90LA4 | 134 |
| 199 | 69 | 1.9 | 7.1 | 2380 | C222_7.1 S3 M3SA4 | 129 | C222_7.1 P90 BN90LA4 | 130 |
| 203 | 67 | 3.0 | 4.6 | 4050 | C362_4.6 S3 M3LA6 | 137 | C362_4.6 P100 BN100LA6 | 138 |
| 225 | 61 | 2.6 | 6.3 | 3450 | C322_6.3 S3 M3SA4 | 133 | C322_6.3 P90 BN90LA4 | 134 |
| 226 | 60 | 0.9 | 6.2 | 600 | C122_6.2 S3 M3SA4 | 125 | C122_6.2 P90 BN90LA4 | 126 |
| 232 | 59 | 1.8 | 6.1 | 2250 | C222_6.1 S3 M3SA4 | 129 | C222_6.1 P90 BN90LA4 | 130 |
| 235 | 58 | 0.9 | 11.9 | 1250 | C122_11.9 S2 M2SB2 | 125 | C122_11.9 P90 BN90SA2 | 126 |
| 249 | 55 | 2.8 | 5.7 | 3320 | C322_5.7 S3 M3SA4 | 133 | C322_5.7 P90 BN90LA4 | 134 |
| 252 | 54 | 0.9 | 5.6 | 720 | C122_5.6 S3 M3SA4 | 125 | C122_5.6 P90 BN90LA4 | 126 |
| 252 | 54 | 1.9 | 5.6 | 2200 | C222_5.6 S3 M3SA4 | 129 | C222_5.6 P90 BN90LA4 | 130 |
| 254 | 54 | 2.0 | 3.7 | 2210 | C222_3.7 S3 M3LA6 | 129 | C222_3.7 P100 BN100LA6 | 130 |
| 278 | 49 | 1.0 | 10.1 | 1340 | C122_10.1 S2 M2SB2 | 125 | C122_10.1 P90 BN90SA2 | 126 |
| 285 | 48 | 3.2 | 5.0 | 3240 | C322_5.0 S3 M3SA4 | 133 | C322_5.0 P90 BN90LA4 | 134 |
| 285 | 48 | 2.1 | 3.3 | 2120 | C222_3.7 S3 M3LA6 | 129 | C222_3.7 P100 BN100LA6 | 130 |
| 290 | 47 | 1.0 | 4.9 | 840 | C122_4.9 S3 M3SA4 | 125 | C122_4.9 P90 BN90LA4 | 126 |
| 296 | 46 | 2.2 | 4.8 | 2140 | C222_4.8 S3 M3SA4 | 129 | C222_4.8 P90 BN90LA4 | 130 |
| 318 | 43 | 1.1 | 8.8 | 1300 | C122_8.8 S2 M2SB2 | 125 | C122_8.8 P90 BN90SA2 | 126 |
| 322 | 42 | 2.6 | 8.7 | 2130 | C222_8.7 S2 M2SB2 | 129 | C222_8.7 P90 BN90SA2 | 130 |
| 327 | 42 | 1.1 | 4.3 | 930 | C122_4.3 S3 M3SA4 | 125 | C122_4.3 P90 BN90LA4 | 126 |
| 331 | 41 | 2.3 | 4.3 | 2100 | C222_4.3 S3 M3SA4 | 129 | C222_4.3 P90 BN90LA4 | 130 |
| 340 | 40 | 1.1 | 2.8 | 1000 | C122_2.8 S3 M3LA6 | 125 | C122_2.8 P100 BN100LA6 | 126 |
| 345 | 39 | 2.4 | 2.7 | 2060 | C222_2.7 S3 M3LA6 | 129 | C222_2.7 P100 BN100LA6 | 130 |
| 367 | 37 | 1.2 | 7.6 | 1270 | C122_7.6 S2 M2SB2 | 125 | C122_7.6 P90 BN90SA2 | 126 |
| 380 | 36 | 2.5 | 3.7 | 2020 | C222_3.7 S3 M3SA4 | 129 | C222_3.7 P90 BN90LA4 | 130 |
| 386 | 35 | 1.2 | 3.7 | 1100 | C122_3.7 S3 M3SA4 | 125 | C122_3.7 P90 BN90LA4 | 126 |
| 395 | 34 | 3.1 | 7.1 | 2030 | C222_7.1 S2 M2SB2 | 129 | C222_7.1 P90 BN90SA2 | 130 |
| 424 | 32 | 2.6 | 3.3 | 2000 | C222_3.3 S3 M3SA4 | 129 | C222_3.3 P90 BN90LA4 | 130 |
| 440 | 31 | 1.3 | 3.2 | 1120 | C122_3.2 S3 M3SA4 | 125 | C122_3.2 P90 BN90LA4 | 126 |
| 449 | 30 | 1.4 | 6.2 | 1180 | C122_6.2 S2 M2SB2 | 125 | C122_6.2 P90 BN90SA2 | 126 |
| 460 | 30 | 2.9 | 6.1 | 1920 | C222_6.1 S2 M2SB2 | 129 | C222_6.1 P90 BN90SA2 | 130 |
| 500 | 27 | 3.0 | 5.6 | 1860 | C222_5.6 S2 M2SB2 | 129 | C222_5.6 P90 BN90SA2 | 130 |
| 500 | 27 | 1.5 | 5.6 | 1140 | C122_5.6 S2 M2SB2 | 125 | C122_5.6 P90 BN90SA2 | 126 |
| 510 | 27 | 1.4 | 2.8 | 1140 | C122_2.8 S3 M3SA4 | 125 | C122_2.8 P90 BN90LA4 | 126 |
| 518 | 26 | 3.0 | 2.7 | 1870 | C222_2.7 S3 M3SA4 | 129 | C222_2.7 P90 BN90LA4 | 130 |
| 575 | 24 | 1.6 | 4.9 | 1110 | C122_4.9 S2 M2SB2 | 125 | C122_4.9 P90 BN90SA2 | 126 |
| 587 | 23 | 3.5 | 4.8 | 1810 | C222_4.8 S2 M2SB2 | 129 | C222_4.8 P90 BN90SA2 | 130 |
| 651 | 21 | 1.7 | 4.3 | 1070 | C122_4.3 S2 M2SB2 | 125 | C122_4.3 P90 BN90SA2 | 126 |
| 767 | 18 | 1.9 | 3.7 | 1030 | C122_3.7 S2 M2SB2 | 125 | C122_3.7 P90 BN90SA2 | 126 |

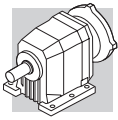


1.5 kW

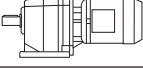



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-----|---------------|---|--|---|---|
| 875 | 16 | 2.1 | 3.2 | 990 | C122_3.2 S2 M2SB2 | 125 | C122_3.2 P90 BN90SA2 | 126 |
| 1012 | 13 | 2.2 | 2.8 | 960 | C122_2.8 S2 M2SB2 | 125 | C122_2.8 P90 BN90SA2 | 126 |

2.2 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 1.6 | 12315 | 1.0 | 908.2 | 85000 | C1004_908.2 S3 M3LA4 | 162 | C1004_908.2 P100 BN100LA4 | 163 |
| 2.0 | 9767 | 1.2 | 720.3 | 85000 | C1004_720.3 S3 M3LA4 | 162 | C1004_720.3 P100 BN100LA4 | 163 |
| 2.4 | 7900 | 1.5 | 582.6 | 85000 | C1004_582.6 S3 M3LA4 | 162 | C1004_582.6 P100 BN100LA4 | 163 |
| 2.6 | 7244 | 1.0 | 534.2 | 60000 | C904_534.2 S3 M3LA4 | 159 | C904_534.2 P100 BN100LA4 | 160 |
| 3.1 | 6198 | 1.2 | 457.1 | 60000 | C904_457.1 S3 M3LA4 | 159 | C904_457.1 P100 BN100LA4 | 160 |
| 3.7 | 5159 | 2.3 | 380.5 | 85000 | C1004_380.5 S3 M3LA4 | 162 | C1004_380.5 P100 BN100LA4 | 163 |
| 3.8 | 5014 | 1.4 | 369.8 | 60000 | C904_369.8 S3 M3LA4 | 159 | C904_369.8 P100 BN100LA4 | 160 |
| 4.8 | 3972 | 1.8 | 292.9 | 60000 | C904_292.9 S3 M3LA4 | 159 | C904_292.9 P100 BN100LA4 | 160 |
| 4.9 | 3874 | 1.0 | 285.7 | 35000 | C804_285.7 S3 M3LA4 | 156 | C804_285.7 P100 BN100LA4 | 157 |
| 5.4 | 3551 | 1.1 | 261.9 | 35000 | C804_261.9 S3 M3LA4 | 156 | C804_261.9 P100 BN100LA4 | 157 |
| 6.1 | 3142 | 2.3 | 231.7 | 60000 | C904_231.7 S3 M3LA4 | 159 | C904_231.7 P100 BN100LA4 | 160 |
| 6.5 | 2991 | 1.3 | 215.8 | 35000 | C803_215.8 S3 M3LA4 | 156 | C803_215.8 P100 BN100LA4 | 157 |
| 7.6 | 2555 | 1.6 | 184.4 | 35000 | C803_184.4 S3 M3LA4 | 156 | C803_184.4 P100 BN100LA4 | 157 |
| 7.9 | 2483 | 0.9 | 179.2 | 25000 | C703_179.2 S3 M3LA4 | 153 | C703_179.2 P100 BN100LA4 | 154 |
| 8.7 | 2256 | 1.0 | 162.8 | 25000 | C703_162.8 S3 M3LA4 | 153 | C703_162.8 P100 BN100LA4 | 154 |
| 10.3 | 1904 | 1.2 | 137.4 | 25000 | C703_137.4 S3 M3LA4 | 153 | C703_137.4 P100 BN100LA4 | 154 |
| 10.3 | 1894 | 2.1 | 136.7 | 35000 | C803_136.7 S3 M3LA4 | 156 | C803_136.7 P100 BN100LA4 | 157 |
| 11.0 | 1776 | 0.9 | 128.1 | 16000 | C613_128.1 S3 M3LA4 | 149 | C613_128.1 P100 BN100LA4 | 150 |
| 12.4 | 1574 | 1.0 | 113.6 | 16000 | C613_113.6 S3 M3LA4 | 149 | C613_113.6 P100 BN100LA4 | 150 |
| 12.5 | 1558 | 1.5 | 112.4 | 25000 | C703_112.4 S3 M3LA4 | 153 | C703_112.4 P100 BN100LA4 | 154 |
| 12.9 | 1517 | 2.6 | 109.5 | 35000 | C803_109.5 S3 M3LA4 | 156 | C803_109.5 P100 BN100LA4 | 157 |
| 13.6 | 1438 | 1.6 | 103.8 | 25000 | C703_103.8 S3 M3LA4 | 153 | C703_103.8 P100 BN100LA4 | 154 |
| 13.6 | 1436 | 1.1 | 103.6 | 16000 | C613_103.6 S3 M3LA4 | 149 | C613_103.6 P100 BN100LA4 | 150 |
| 14.5 | 1350 | 3.0 | 97.4 | 35000 | C803_97.4 S3 M3LA4 | 156 | C803_97.4 P100 BN100LA4 | 157 |
| 15.5 | 1261 | 1.3 | 91.0 | 16000 | C613_91.0 S3 M3LA4 | 149 | C613_91.0 P100 BN100LA4 | 150 |
| 15.8 | 1237 | 3.2 | 89.3 | 35000 | C803_89.3 S3 M3LA4 | 156 | C803_89.3 P100 BN100LA4 | 157 |
| 16.0 | 1222 | 1.9 | 88.2 | 25000 | C703_88.2 S3 M3LA4 | 153 | C703_88.2 P100 BN100LA4 | 154 |
| 17.0 | 1151 | 1.4 | 83.0 | 16000 | C613_83.0 S3 M3LA4 | 149 | C613_83.0 P100 BN100LA4 | 150 |
| 17.3 | 1128 | 2.0 | 81.4 | 25000 | C703_81.4 S3 M3LA4 | 153 | C703_81.4 P100 BN100LA4 | 154 |
| 17.7 | 1107 | 0.9 | 79.9 | 10000 | C513_79.9 S3 M3LA4 | 145 | C513_79.9 P100 BN100LA4 | 146 |
| 19.0 | 1028 | 1.6 | 74.2 | 16000 | C613_74.2 S3 M3LA4 | 149 | C613_74.2 P100 BN100LA4 | 150 |
| 19.3 | 1011 | 1.0 | 72.9 | 10000 | C513_72.9 S3 M3LA4 | 145 | C513_72.9 P100 BN100LA4 | 146 |
| 19.8 | 989 | 2.3 | 71.3 | 25000 | C703_71.3 S3 M3LA4 | 153 | C703_71.3 P100 BN100LA4 | 154 |
| 20.8 | 938 | 1.7 | 67.7 | 16000 | C613_67.7 S3 M3LA4 | 149 | C613_67.7 P100 BN100LA4 | 150 |
| 21.4 | 913 | 2.5 | 65.9 | 25000 | C703_65.9 S3 M3LA4 | 153 | C703_65.9 P100 BN100LA4 | 154 |
| 21.8 | 895 | 1.1 | 64.6 | 10000 | C513_64.6 S3 M3LA4 | 145 | C513_64.6 P100 BN100LA4 | 146 |
| 23.9 | 817 | 1.2 | 59.0 | 10000 | C513_59.0 S3 M3LA4 | 145 | C513_59.0 P100 BN100LA4 | 146 |
| 24.1 | 812 | 2.0 | 58.6 | 16000 | C613_58.6 S3 M3LA4 | 149 | C613_58.6 P100 BN100LA4 | 150 |
| 24.7 | 807 | 1.0 | 57.0 | 10000 | C512_57.0 S3 M3LA4 | 145 | C512_57.0 P100 BN100LA4 | 146 |
| 25.0 | 783 | 2.9 | 56.5 | 25000 | C703_56.5 S3 M3LA4 | 153 | C703_56.5 P100 BN100LA4 | 154 |
| 26.4 | 741 | 2.2 | 53.5 | 16000 | C613_53.5 S3 M3LA4 | 149 | C613_53.5 P100 BN100LA4 | 150 |
| 27.4 | 728 | 1.0 | 51.4 | 10000 | C512_51.4 S3 M3LA4 | 145 | C512_51.4 P100 BN100LA4 | 146 |

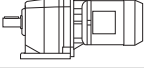






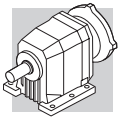
2.2 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 27.6 | 709 | 1.4 | 51.2 | 10000 | C513_51.2 S3 M3LA4 | 145 | C513_51.2 P100 BN100LA4 | 146 |
| 29.5 | 677 | 1.2 | 47.8 | 10000 | C512_47.8 S3 M3LA4 | 145 | C512_47.8 P100 BN100LA4 | 146 |
| 29.6 | 660 | 2.4 | 47.6 | 16000 | C613_47.6 S3 M3LA4 | 149 | C613_47.6 P100 BN100LA4 | 150 |
| 30 | 651 | 0.9 | 47.0 | 6440 | C413_47.0 S3 M3LA4 | 141 | C413_47.0 P100 BN100LA4 | 142 |
| 30 | 647 | 1.5 | 46.7 | 10000 | C513_46.7 S3 M3LA4 | 145 | C513_46.7 P100 BN100LA4 | 146 |
| 32 | 602 | 2.7 | 43.4 | 16000 | C613_43.4 S3 M3LA4 | 149 | C613_43.4 P100 BN100LA4 | 150 |
| 33 | 610 | 1.3 | 43.1 | 10000 | C512_43.1 S3 M3LA4 | 145 | C512_43.1 P100 BN100LA4 | 146 |
| 35 | 561 | 1.8 | 40.5 | 10000 | C513_40.5 S3 M3LA4 | 145 | C513_40.5 P100 BN100LA4 | 146 |
| 35 | 571 | 1.4 | 40.4 | 10000 | C512_40.4 S3 M3LA4 | 145 | C512_40.4 P100 BN100LA4 | 146 |
| 35 | 559 | 1.1 | 40.3 | 6460 | C413_40.3 S3 M3LA4 | 141 | C413_40.3 P100 BN100LA4 | 142 |
| 37 | 538 | 2.5 | 38.0 | 16000 | C612_38.0 S3 M3LA4 | 149 | C612_38.0 P100 BN100LA4 | 150 |
| 38 | 525 | 1.0 | 37.1 | 6370 | C412_37.1 S3 M3LA4 | 141 | C412_37.1 P100 BN100LA4 | 142 |
| 38 | 512 | 2.0 | 37.0 | 10000 | C513_37.0 S3 M3LA4 | 145 | C513_37.0 P100 BN100LA4 | 146 |
| 38 | 510 | 1.2 | 36.8 | 6390 | C413_36.8 S3 M3LA4 | 141 | C413_36.8 P100 BN100LA4 | 142 |
| 39 | 515 | 1.5 | 36.4 | 10000 | C512_36.4 S3 M3LA4 | 145 | C512_36.4 P100 BN100LA4 | 146 |
| 39 | 501 | 3.1 | 36.1 | 16000 | C613_36.1 S3 M3LA4 | 149 | C613_36.1 P100 BN100LA4 | 150 |
| 41 | 484 | 2.5 | 34.2 | 16000 | C612_34.2 S3 M3LA4 | 149 | C612_34.2 P100 BN100LA4 | 150 |
| 41 | 479 | 0.9 | 34.6 | 5350 | C363_34.6 S3 M3LA4 | 137 | C363_34.6 P100 BN100LA4 | 138 |
| 42 | 473 | 1.1 | 33.4 | 6290 | C412_33.4 S3 M3LA4 | 141 | C412_33.4 P100 BN100LA4 | 142 |
| 43 | 468 | 1.7 | 33.0 | 10000 | C512_33.0 S3 M3LA4 | 145 | C512_33.0 P100 BN100LA4 | 146 |
| 43 | 457 | 3.3 | 33.0 | 16000 | C613_33.0 S3 M3LA4 | 149 | C613_33.0 P100 BN100LA4 | 150 |
| 45 | 445 | 1.1 | 31.4 | 6290 | C412_31.4 S3 M3LA4 | 141 | C412_31.4 P100 BN100LA4 | 142 |
| 46 | 431 | 3.1 | 30.4 | 16000 | C612_30.4 S3 M3LA4 | 149 | C612_30.4 P100 BN100LA4 | 150 |
| 47 | 421 | 1.9 | 29.8 | 10000 | C512_29.8 S3 M3LA4 | 145 | C512_29.8 P100 BN100LA4 | 146 |
| 49 | 398 | 1.1 | 28.7 | 5220 | C363_28.7 S3 M3LA4 | 137 | C363_28.7 P100 BN100LA4 | 138 |
| 50 | 401 | 1.2 | 28.3 | 6190 | C412_28.3 S3 M3LA4 | 141 | C412_28.3 P100 BN100LA4 | 142 |
| 51 | 388 | 3.5 | 27.4 | 15900 | C612_27.4 S3 M3LA4 | 149 | C612_27.4 P100 BN100LA4 | 150 |
| 54 | 367 | 2.2 | 25.9 | 10000 | C512_25.9 S3 M3LA4 | 145 | C512_25.9 P100 BN100LA4 | 146 |
| 54 | 363 | 1.2 | 26.2 | 5140 | C363_26.2 S3 M3LA4 | 137 | C363_26.2 P100 BN100LA4 | 138 |
| 56 | 355 | 0.8 | 25.1 | 4270 | C322_25.1 S3 M3LA4 | 133 | C322_25.1 P100 BN100LA4 | 134 |
| 56 | 355 | 1.4 | 25.0 | 6120 | C412_25.0 S3 M3LA4 | 141 | C412_25.0 P100 BN100LA4 | 142 |
| 60 | 331 | 2.4 | 23.4 | 10000 | C512_23.4 S3 M3LA4 | 145 | C512_23.4 P100 BN100LA4 | 146 |
| 62 | 324 | 0.9 | 22.9 | 4240 | C322_22.9 S3 M3LA4 | 133 | C322_22.9 P100 BN100LA4 | 134 |
| 63 | 319 | 1.6 | 22.6 | 6000 | C412_22.6 S3 M3LA4 | 141 | C412_22.6 P100 BN100LA4 | 142 |
| 64 | 307 | 1.4 | 22.1 | 5060 | C363_22.1 S3 M3LA4 | 137 | C363_22.1 P100 BN100LA4 | 138 |
| 66 | 308 | 0.9 | 14.1 | 4170 | C322_14.1 S3 M3LC6 | 133 | C322_14.1 P112 BN112M6 | 134 |
| 67 | 297 | 2.7 | 21.0 | 10000 | C512_21.0 S3 M3LA4 | 145 | C512_21.0 P100 BN100LA4 | 146 |
| 70 | 284 | 1.0 | 20.1 | 4200 | C322_20.1 S3 M3LA4 | 133 | C322_20.1 P100 BN100LA4 | 134 |
| 71 | 280 | 1.7 | 19.8 | 5890 | C412_19.8 S3 M3LA4 | 141 | C412_19.8 P100 BN100LA4 | 142 |
| 74 | 269 | 1.4 | 19.0 | 4920 | C362_19.0 S3 M3LA4 | 137 | C362_19.0 P100 BN100LA4 | 138 |
| 75 | 267 | 3.0 | 18.9 | 10000 | C512_18.9 S3 M3LA4 | 145 | C512_18.9 P100 BN100LA4 | 146 |
| 76 | 269 | 1.1 | 12.3 | 4100 | C322_12.3 S3 M3LC6 | 133 | C322_12.3 P112 BN112M6 | 134 |
| 78 | 257 | 1.1 | 18.2 | 4120 | C322_18.2 S3 M3LA4 | 133 | C322_18.2 P100 BN100LA4 | 134 |
| 79 | 252 | 1.9 | 17.8 | 5760 | C412_17.8 S3 M3LA4 | 141 | C412_17.8 P100 BN100LA4 | 142 |
| 82 | 244 | 1.6 | 17.2 | 4800 | C362_17.2 S3 M3LA4 | 137 | C362_17.2 P100 BN100LA4 | 138 |
| 83 | 245 | 1.1 | 11.2 | 4060 | C322_11.2 S3 M3LC6 | 133 | C322_11.2 P112 BN112M6 | 134 |
| 85 | 235 | 3.4 | 16.6 | 10000 | C512_16.6 S3 M3LA4 | 145 | C512_16.6 P100 BN100LA4 | 146 |
| 89 | 224 | 2.0 | 15.8 | 5650 | C412_15.8 S3 M3LA4 | 141 | C412_15.8 P100 BN100LA4 | 142 |
| 90 | 221 | 1.2 | 15.6 | 4060 | C322_15.6 S3 M3LA4 | 133 | C322_15.6 P100 BN100LA4 | 134 |
| 96 | 209 | 1.8 | 14.8 | 4710 | C362_14.8 S3 M3LA4 | 137 | C362_14.8 P100 BN100LA4 | 138 |
| 99 | 202 | 2.2 | 14.2 | 5510 | C412_14.2 S3 M3LA4 | 141 | C412_14.2 P100 BN100LA4 | 142 |

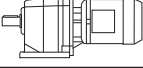





2.2 kW

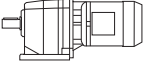



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 100 | 203 | 1.3 | 9.3 | 3960 | C322_9.3 S3 M3LC6 | 133 | C322_9.3 P112 BN112M6 | 134 |
| 100 | 199 | 1.3 | 14.1 | 3980 | C322_14.1 S3 M3LA4 | 133 | C322_14.1 P100 BN100LA4 | 134 |
| 106 | 189 | 2.0 | 13.3 | 4590 | C362_13.3 S3 M3LA4 | 137 | C362_13.3 P100 BN100LA4 | 138 |
| 114 | 175 | 2.4 | 12.4 | 5360 | C412_12.4 S3 M3LA4 | 141 | C412_12.4 P100 BN100LA4 | 142 |
| 114 | 176 | 0.9 | 12.4 | 2270 | C222_12.4 S3 M3LA4 | 129 | C222_12.4 P100 BN100LA4 | 130 |
| 114 | 174 | 1.4 | 12.3 | 3900 | C322_12.3 S3 M3LA4 | 133 | C322_12.3 P100 BN100LA4 | 134 |
| 109 | 186 | 1.3 | 8.5 | 3890 | C322_8.5 S3 M3LC6 | 133 | C322_8.5 P112 BN112M6 | 134 |
| 121 | 165 | 2.3 | 11.7 | 4490 | C362_11.7 S3 M3LA4 | 137 | C362_11.7 P100BN100LA4 | 138 |
| 126 | 158 | 2.7 | 11.2 | 5220 | C412_11.2 S3 M3LA4 | 141 | C412_11.2 P100 BN100LA4 | 142 |
| 126 | 159 | 1.5 | 11.2 | 3800 | C322_11.2 S3 M3LA4 | 133 | C322_11.2 P100 BN100LA4 | 134 |
| 127 | 157 | 1.0 | 11.1 | 2250 | C222_11.1 S3 M3LA4 | 129 | C222_11.1 P100 BN100LA4 | 130 |
| 130 | 154 | 1.5 | 7.2 | 3810 | C322_7.2 S3 M3LC6 | 133 | C322_7.2 P112 BN112M6 | 134 |
| 131 | 152 | 1.0 | 7.1 | 2260 | C222_7.1 S3 M3LC6 | 129 | C222_7.1 P112 BN112M6 | 130 |
| 133 | 150 | 2.5 | 10.6 | 4320 | C362_10.6 S3 M3LA4 | 137 | C362_10.6 P100 BN100LA4 | 138 |
| 146 | 137 | 1.1 | 9.6 | 2250 | C222_9.6 S3 M3LA4 | 129 | C222_9.6 P100 BN100LA4 | 130 |
| 147 | 136 | 2.9 | 9.6 | 5050 | C412_9.6 S3 M3LA4 | 141 | C412_9.6 P100 BN100LA4 | 142 |
| 148 | 138 | 1.3 | 6.3 | 3510 | C322_6.3 S3 M3LC6 | 133 | C322_6.3 P112 BN112M6 | 134 |
| 152 | 132 | 1.7 | 9.3 | 3690 | C322_9.3 S3 M3LA4 | 133 | C322_9.3 P100 BN100LA4 | 134 |
| 160 | 125 | 3.1 | 8.8 | 4210 | C362_8.8 S3 M3LA4 | 137 | C362_8.8 P100 BN100LA4 | 138 |
| 163 | 123 | 1.1 | 8.7 | 2220 | C222_8.7 S3 M3LA4 | 129 | C222_8.7 P100 BN100LA4 | 130 |
| 163 | 125 | 1.4 | 5.7 | 3450 | C322_5.7 S3 M3LC6 | 133 | C322_5.7 P112 BN112M6 | 134 |
| 166 | 120 | 1.7 | 8.5 | 3600 | C322_8.5 S3 M3LA4 | 133 | C322_8.5 P100 BN100LA4 | 134 |
| 188 | 106 | 1.5 | 5.0 | 3410 | C322_5.0 S3 M3LC6 | 133 | C322_5.0 P112 BN112M6 | 134 |
| 197 | 101 | 2.0 | 7.2 | 3480 | C322_7.2 S3 M3LA4 | 133 | C322_7.2 P100 BN100LA4 | 134 |
| 199 | 100 | 1.3 | 7.1 | 2180 | C222_7.1 S3 M3LA4 | 129 | C222_7.1 P100 BN100LA4 | 130 |
| 225 | 89 | 1.7 | 6.3 | 3250 | C322_6.3 S3 M3LA4 | 133 | C322_6.3 P100 BN100LA4 | 134 |
| 232 | 86 | 1.2 | 6.1 | 2040 | C222_6.1 S3 M3LA4 | 129 | C222_6.1 P100 BN100LA4 | 130 |
| 241 | 83 | 2.4 | 5.8 | 3710 | C362_5.8 S3 M3LA4 | 137 | C362_5.8 P100 BN100LA4 | 138 |
| 249 | 80 | 1.9 | 5.7 | 3180 | C322_5.7 S3 M3LA4 | 133 | C322_5.7 P100 BN100LA4 | 134 |
| 252 | 79 | 1.3 | 5.6 | 2050 | C222_5.6 S3 M3LA4 | 129 | C222_5.6 P100 BN100LA4 | 130 |
| 267 | 75 | 2.7 | 5.3 | 3550 | C362_5.3 S3 M3LA4 | 137 | C362_5.3 P100 BN100LA4 | 138 |
| 285 | 70 | 2.2 | 5.0 | 3100 | C322_5.0 S3 M3LA4 | 133 | C322_5.0 P100 BN100LA4 | 134 |
| 296 | 68 | 1.5 | 4.8 | 1970 | C222_4.8 S3 M3LA4 | 129 | C222_4.8 P100 BN100LA4 | 130 |
| 302 | 66 | 2.7 | 9.3 | 3130 | C322_9.3 S3 M3SA2 | 133 | C322_9.3 P90 BN90L2 | 134 |
| 305 | 65 | 3.1 | 4.6 | 3490 | C362_4.6 S3 M3LA4 | 137 | C362_4.6 P100 BN100LA4 | 138 |
| 313 | 64 | 2.4 | 4.5 | 3000 | C322_4.5 S3 M3LA4 | 133 | C322_4.5 P100 BN100LA4 | 134 |
| 328 | 61 | 1.8 | 8.7 | 2000 | C222_8.7 S3 M3SA2 | 129 | C222_8.7 P90 BN90L2 | 130 |
| 331 | 60 | 1.6 | 4.3 | 1970 | C222_4.3 S3 M3LA4 | 129 | C222_4.3 P100 BN100LA4 | 130 |
| 335 | 60 | 2.8 | 8.5 | 3010 | C322_8.5 S3 M3SA2 | 133 | C322_8.5 P90 BN90L2 | 134 |
| 346 | 58 | 3.5 | 2.7 | 3380 | C362_2.7 S3 M3LC6 | 137 | C362_2.7 P112 BN112M6 | 138 |
| 369 | 54 | 0.8 | 7.6 | 930 | C122_7.6 S3 M3SA2 | 125 | C122_7.6 P90 BN90L2 | 126 |
| 377 | 53 | 2.8 | 3.7 | 2890 | C322_3.7 S3 M3LA4 | 133 | C322_3.7 P100 BN100LA4 | 134 |
| 380 | 52 | 1.7 | 3.7 | 1890 | C222_3.7 S3 M3LA4 | 129 | C222_3.7 P100 BN100LA4 | 130 |
| 392 | 51 | 3.1 | 7.2 | 2920 | C322_7.2 S3 M3SA2 | 133 | C322_7.2 P90 BN90L2 | 134 |
| 397 | 50 | 2.1 | 7.1 | 1920 | C222_7.1 S3 M3SA2 | 129 | C222_7.1 P90 BN90L2 | 130 |
| 414 | 48 | 2.9 | 3.4 | 2800 | C322_3.4 S3 M3LA4 | 133 | C322_3.4 P100 BN100LA4 | 134 |
| 424 | 47 | 1.8 | 3.3 | 1890 | C222_3.3 S3 M3LA4 | 129 | C222_3.3 P100 BN100LA4 | 130 |
| 440 | 45 | 0.9 | 3.2 | 580 | C122_3.2 S3 M3LA4 | 125 | C122_3.2 P100 BN100LA4 | 126 |
| 449 | 44 | 3.4 | 6.3 | 2760 | C322_6.3 S3 M3SA2 | 133 | C322_6.3 P90 BN90L2 | 134 |
| 462 | 43 | 2.0 | 6.1 | 1820 | C222_6.1 S3 M3SA2 | 129 | C222_6.1 P90 BN90L2 | 130 |
| 663 | 30 | 2.1 | 5.6 | 1770 | C222_5.6 S3 M3SA2 | 129 | C222_5.6 P90 BN90L2 | 130 |



2.2 kW

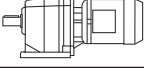



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-----|---------------|---|--|---|---|
| 490 | 41 | 3.2 | 2.9 | 2700 | C322_2.9 S3 M3LA4 | 133 | C322_2.9 P100 BN100LA4 | 134 |
| 510 | 39 | 0.9 | 2.8 | 690 | C122_2.8 S3 M3LA4 | 125 | C122_2.8 P100 BN100LA4 | 126 |
| 518 | 39 | 2.1 | 2.7 | 1770 | C222_2.7 S3 M3LA4 | 129 | C222_2.7 P100 BN100LA4 | 130 |
| 589 | 34 | 2.4 | 4.8 | 1720 | C222_4.8 S3 M3SA2 | 129 | C222_4.8 P90 BN90L2 | 130 |
| 663 | 30 | 2.5 | 4.3 | 1670 | C222_4.3 S3 M3SA2 | 129 | C222_4.3 P90 BN90L2 | 130 |
| 758 | 26 | 2.7 | 3.7 | 1620 | C222_3.7 S3 M3SA2 | 129 | C222_3.7 P90 BN90L2 | 130 |
| 770 | 26 | 1.3 | 3.7 | 970 | C122_3.7 S3 M3SA2 | 125 | C122_3.7 P90 BN90L2 | 126 |
| 864 | 23 | 2.9 | 3.3 | 1550 | C222_3.3 S3 M3SA2 | 129 | C222_3.3 P90 BN90L2 | 130 |
| 891 | 22 | 1.4 | 3.2 | 940 | C122_3.2 S3 M3SA2 | 125 | C122_3.2 P90 BN90L2 | 126 |
| 1015 | 20 | 1.5 | 2.8 | 920 | C122_2.8 S3 M3SA2 | 125 | C122_2.8 P90 BN90L2 | 126 |
| 1032 | 19 | 3.4 | 2.7 | 1490 | C222_2.7 S3 M3SA2 | 129 | C222_2.7 P90 BN90L2 | 130 |

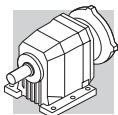
3 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 2.0 | 13319 | 0.9 | 720.3 | 85000 | C1004_720.3 S3 M3LB4 | 162 | C1004_720.3 P100 BN100LB4 | 163 |
| 2.4 | 10773 | 1.1 | 582.6 | 85000 | C1004_582.6 S3 M3LB4 | 162 | C1004_582.6 P100 BN100LB4 | 163 |
| 3.4 | 7747 | 0.9 | 419.0 | 60000 | C904_419.0 S3 M3LB4 | 159 | C904_419.0 P100 BN100LB4 | 160 |
| 3.4 | 7577 | 1.6 | 409.8 | 85000 | C1004_409.8 S3 M3LB4 | 162 | C1004_409.8 P100 BN100LB4 | 163 |
| 4.2 | 6268 | 1.1 | 339.0 | 60000 | C904_339.0 S3 M3LB4 | 159 | C904_339.0 P100 BN100LB4 | 160 |
| 4.4 | 5984 | 2.0 | 323.6 | 85000 | C1004_323.6 S3 M3LB4 | 162 | C1004_323.6 P100 BN100LB4 | 163 |
| 5.3 | 4965 | 1.5 | 268.5 | 60000 | C904_268.5 S3 M3LB4 | 159 | C904_268.5 P100 BN100LB4 | 160 |
| 5.4 | 4863 | 2.5 | 263.0 | 85000 | C1004_263.0 S3 M3LB4 | 162 | C1004_263.0 P100 BN100LB4 | 163 |
| 6.5 | 4079 | 1.0 | 215.8 | 35000 | C803_215.8 S3 M3LB4 | 156 | C803_215.8 P100 BN100LB4 | 157 |
| 6.6 | 3927 | 1.8 | 212.4 | 60000 | C904_212.4 S3 M3LB4 | 159 | C904_212.4 P100 BN100LB4 | 160 |
| 7.1 | 3739 | 1.0 | 197.9 | 35000 | C803_197.9 S3 M3LB4 | 156 | C803_197.9 P100 BN100LB4 | 157 |
| 8.2 | 3252 | 2.2 | 172.1 | 60000 | C903_172.1 S3 M3LB4 | 159 | C903_172.1 P100 BN100LB4 | 160 |
| 8.3 | 3193 | 1.3 | 169.0 | 35000 | C803_169.0 S3 M3LB4 | 156 | C803_169.0 P100 BN100LB4 | 157 |
| 9.5 | 2818 | 1.4 | 149.1 | 35000 | C803_149.1 S3 M3LB4 | 156 | C803_149.1 P100 BN100LB4 | 157 |
| 9.6 | 2765 | 2.6 | 146.3 | 60000 | C903_146.3 S3 M3LB4 | 159 | C903_146.3 P100 BN100LB4 | 160 |
| 10.5 | 2535 | 2.8 | 134.1 | 60000 | C903_134.1 S3 M3LB4 | 159 | C903_134.1 P100 BN100LB4 | 160 |
| 12.1 | 2206 | 3.3 | 116.7 | 60000 | C903_116.7 S3 M3LB4 | 159 | C903_116.7 P100 BN100LB4 | 160 |
| 12.5 | 2125 | 1.1 | 112.4 | 25000 | C703_112.4 S3 M3LB4 | 153 | C703_112.4 P100 BN100LB4 | 154 |
| 12.9 | 2069 | 1.9 | 109.5 | 35000 | C803_109.5 S3 M3LB4 | 156 | C803_109.5 P100 BN100LB4 | 157 |
| 13.6 | 1961 | 1.2 | 103.8 | 25000 | C703_103.8 S3 M3LB4 | 153 | C703_103.8 P100 BN100LB4 | 154 |
| 14.5 | 1840 | 2.2 | 97.4 | 35000 | C803_97.4 S3 M3LB4 | 156 | C803_97.4 P100 BN100LB4 | 157 |
| 15.5 | 1720 | 0.9 | 91.0 | 16000 | C613_91.0 S3 M3LB4 | 149 | C613_91.0 P100 BN100LB4 | 150 |
| 15.8 | 1687 | 2.4 | 89.3 | 35000 | C803_89.3 S3 M3LB4 | 156 | C803_89.3 P100 BN100LB4 | 157 |
| 16.0 | 1667 | 1.4 | 88.2 | 25000 | C703_88.2 S3 M3LB4 | 153 | C703_88.2 P100 BN100LB4 | 154 |
| 17.0 | 1569 | 1.0 | 83.0 | 16000 | C613_83.0 S3 M3LB4 | 149 | C613_83.0 P100 BN100LB4 | 150 |
| 17.3 | 1538 | 1.5 | 81.4 | 25000 | C703_81.4 S3 M3LB4 | 153 | C703_81.4 P100 BN100LB4 | 154 |
| 18.3 | 1453 | 2.8 | 76.9 | 35000 | C803_76.9 S3 M3LB4 | 156 | C803_76.9 P100 BN100LB4 | 157 |
| 19.0 | 1402 | 1.1 | 74.2 | 16000 | C613_74.2 S3 M3LB4 | 149 | C613_74.2 P100 BN100LB4 | 150 |
| 19.8 | 1348 | 1.7 | 71.3 | 25000 | C703_71.3 S3 M3LB4 | 153 | C703_71.3 P100 BN100LB4 | 154 |
| 20.0 | 1332 | 3.0 | 70.5 | 35000 | C803_70.5 S3 M3LB4 | 156 | C803_70.5 P100 BN100LB4 | 157 |
| 20.8 | 1279 | 1.3 | 67.7 | 16000 | C613_67.7 S3 M3LB4 | 149 | C613_67.7 P100 BN100LB4 | 150 |
| 24.1 | 1107 | 1.4 | 58.6 | 16000 | C613_58.6 S3 M3LB4 | 149 | C613_58.6 P100 BN100LB4 | 150 |
| 25.0 | 1068 | 2.2 | 56.5 | 25000 | C703_56.5 S3 M3LB4 | 153 | C703_56.5 P100 BN100LB4 | 154 |

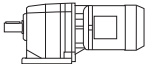





3 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 26.4 | 1010 | 1.6 | 53.5 | 16000 | C613_53.5 S3 M3LB4 | 149 | C613_53.5 P100 BN100LB4 | 150 |
| 27.6 | 967 | 1.0 | 51.2 | 10000 | C513_51.2 S3 M3LB4 | 145 | C513_51.2 P100 BN100LB4 | 146 |
| 29.6 | 900 | 1.8 | 47.6 | 16000 | C613_47.6 S3 M3LB4 | 149 | C613_47.6 P100 BN100LB4 | 150 |
| 30 | 883 | 1.1 | 46.7 | 10000 | C513_46.7 S3 M3LB4 | 145 | C513_46.7 P100 BN100LB4 | 146 |
| 32 | 845 | 2.7 | 44.7 | 25000 | C703_44.7 S3 M3LB4 | 153 | C703_44.7 P100 BN100LB4 | 154 |
| 32 | 821 | 1.9 | 43.4 | 16000 | C613_43.4 S3 M3LB4 | 149 | C613_43.4 P100 BN100LB4 | 150 |
| 33 | 832 | 0.9 | 43.1 | 10000 | C512_43.1 S3 M3LB4 | 145 | C512_43.1 P100 BN100LB4 | 146 |
| 34 | 780 | 2.9 | 41.3 | 25000 | C703_41.3 S3 M3LB4 | 153 | C703_41.3 P100 BN100LB4 | 154 |
| 35 | 765 | 1.3 | 40.5 | 10000 | C513_40.5 S3 M3LB4 | 145 | C513_40.5 P100 BN100LB4 | 146 |
| 35 | 779 | 1.0 | 40.4 | 10000 | C512_40.4 S3 M3LB4 | 145 | C512_40.4 P100 BN100LB4 | 146 |
| 37 | 734 | 1.8 | 38.0 | 16000 | C612_38.0 S3 M3LB4 | 149 | C612_38.0 P100 BN100LB4 | 150 |
| 38 | 698 | 1.4 | 37.0 | 10000 | C513_37.0 S3 M3LB4 | 145 | C513_37.0 P100 BN100LB4 | 146 |
| 39 | 702 | 1.1 | 36.4 | 10000 | C512_36.4 S3 M3LB4 | 145 | C512_36.4 P100 BN100LB4 | 146 |
| 39 | 683 | 2.3 | 36.1 | 16000 | C613_36.1 S3 M3LB4 | 149 | C613_36.1 P100 BN100LB4 | 150 |
| 41 | 661 | 1.9 | 34.2 | 16000 | C612_34.2 S3 M3LB4 | 149 | C612_34.2 P100 BN100LB4 | 150 |
| 43 | 638 | 1.2 | 33.0 | 10000 | C512_33.0 S3 M3LB4 | 145 | C512_33.0 P100 BN100LB4 | 146 |
| 43 | 623 | 2.4 | 33.0 | 16000 | C613_33.0 S3 M3LB4 | 149 | C613_33.0 P100 BN100LB4 | 150 |
| 45 | 590 | 1.0 | 31.2 | 5550 | C413_31.2 S3 M3LB4 | 141 | C413_31.2 P100 BN100LB4 | 142 |
| 46 | 588 | 2.3 | 30.4 | 15900 | C612_30.4 S3 M3LB4 | 149 | C612_30.4 P100 BN100LB4 | 150 |
| 47 | 575 | 1.4 | 29.8 | 10000 | C512_29.8 S3 M3LB4 | 145 | C512_29.8 P100 BN100LB4 | 146 |
| 50 | 546 | 0.9 | 28.3 | 5460 | C412_28.3 S3 M3LB4 | 141 | C412_28.3 P100 BN100LB4 | 142 |
| 51 | 519 | 1.9 | 27.4 | 10000 | C513_27.4 S3 M3LB4 | 145 | C513_27.4 P100 BN100LB4 | 146 |
| 51 | 529 | 2.6 | 27.4 | 15400 | C612_27.4 S3 M3LB4 | 149 | C612_27.4 P100 BN100LB4 | 150 |
| 54 | 500 | 1.6 | 25.9 | 10000 | C512_25.9 S3 M3LB4 | 145 | C512_25.9 P100 BN100LB4 | 146 |
| 54 | 487 | 0.9 | 26.2 | 4500 | C363_26.2 S3 M3LB4 | 137 | C363_26.2 P100 BN100LB4 | 138 |
| 56 | 483 | 1.0 | 25.0 | 5480 | C412_25.0 S3 M3LB4 | 141 | C412_25.0 P100 BN100LB4 | 142 |
| 57 | 479 | 2.8 | 24.8 | 15100 | C612_24.8 S3 M3LB4 | 149 | C612_24.8 P100 BN100LB4 | 150 |
| 59 | 451 | 2.0 | 23.9 | 10000 | C513_23.9 S3 M3LB4 | 145 | C513_23.9 P100 BN100LB4 | 146 |
| 60 | 451 | 1.8 | 23.4 | 10000 | C512_23.4 S3 M3LB4 | 145 | C512_23.4 P100 BN100LB4 | 146 |
| 63 | 435 | 1.1 | 22.6 | 5420 | C412_22.6 S3 M3LB4 | 141 | C412_22.6 P100 BN100LB4 | 142 |
| 63 | 431 | 3.1 | 22.4 | 14600 | C612_22.4 S3 M3LB4 | 149 | C612_22.4 P100 BN100LB4 | 150 |
| 64 | 412 | 1.0 | 22.1 | 4530 | C363_22.1 S3 M3LB4 | 137 | C363_22.1 P100 BN100LB4 | 138 |
| 65 | 412 | 2.2 | 21.8 | 10000 | C513_21.8 S3 M3LB4 | 145 | C513_21.8 P100 BN100LB4 | 146 |
| 67 | 405 | 2.0 | 21.0 | 10000 | C512_21.0 S3 M3LB4 | 145 | C512_21.0 P100 BN100LB4 | 146 |
| 71 | 381 | 1.3 | 19.8 | 5390 | C412_19.8 S3 M3LB4 | 141 | C412_19.8 P100 BN100LB4 | 142 |
| 74 | 361 | 1.1 | 19.0 | 4450 | C362_19.0 S3 M3LB4 | 137 | C362_19.0 P100 BN100LB4 | 138 |
| 75 | 365 | 2.2 | 18.9 | 10000 | C512_18.9 S3 M3LB4 | 145 | C512_18.9 P100 BN100LB4 | 146 |
| 79 | 343 | 1.4 | 17.8 | 5300 | C412_17.8 S3 M3LB4 | 141 | C412_17.8 P100 BN100LB4 | 142 |
| 82 | 327 | 1.2 | 17.2 | 4400 | C362_17.2 S3 M3LB4 | 137 | C362_17.2 P100 BN100LB4 | 138 |
| 85 | 320 | 2.5 | 16.6 | 9790 | C512_16.6 S3 M3LB4 | 145 | C512_16.6 P100 BN100LB4 | 146 |
| 89 | 305 | 1.5 | 15.8 | 5240 | C412_15.8 S3 M3LB4 | 141 | C412_15.8 P100 BN100LB4 | 142 |
| 90 | 296 | 0.9 | 15.6 | 3680 | C322_15.6 S3 M3LB4 | 133 | C322_15.6 P100 BN100LB4 | 134 |
| 94 | 289 | 2.8 | 15.0 | 9540 | C512_15.0 S3 M3LB4 | 145 | C512_15.0 P100 BN100LB4 | 146 |
| 96 | 280 | 1.4 | 14.8 | 4340 | C362_14.8 S3 M3LB4 | 137 | C362_14.8 P100 BN100LB4 | 138 |
| 99 | 275 | 1.6 | 14.2 | 5140 | C412_14.2 S3 M3LB4 | 141 | C412_14.2 P100 BN100LB4 | 142 |
| 100 | 267 | 0.9 | 14.1 | 3650 | C322_14.1 S3 M3LB4 | 133 | C322_14.1 P100 BN100LB4 | 134 |
| 106 | 253 | 1.5 | 13.3 | 4260 | C362_13.3 S3 M3LB4 | 137 | C362_13.3 P100 BN100LB4 | 138 |
| 107 | 253 | 3.0 | 13.1 | 9200 | C512_13.1 S3 M3LB4 | 145 | C512_13.1 P100 BN100LB4 | 146 |
| 114 | 239 | 1.8 | 12.4 | 5040 | C412_12.4 S3 M3LB4 | 141 | C412_12.4 P100 BN100LB4 | 142 |
| 114 | 234 | 1.0 | 12.3 | 3580 | C322_12.3 S3 M3LB4 | 133 | C322_12.3 P100 BN100LB4 | 134 |
| 119 | 228 | 3.4 | 11.8 | 8950 | C512_11.8 S3 M3LB4 | 145 | C512_11.8 P100 BN100LB4 | 146 |

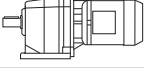





3 kW

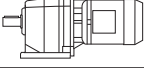



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 121 | 222 | 1.7 | 11.7 | 4200 | C362_11.7 S3 M3LB4 | 137 | C362_11.7 P100 BN100LB4 | 138 |
| 126 | 215 | 1.9 | 11.2 | 4930 | C412_11.2 S3 M3LB4 | 141 | C412_11.2 P100 BN100LB4 | 142 |
| 126 | 213 | 1.1 | 11.2 | 3520 | C322_11.2 S3 M3LB4 | 133 | C322_11.2 P100 BN100LB4 | 134 |
| 133 | 201 | 1.9 | 10.6 | 4100 | C362_10.6 S3 M3LB4 | 137 | C362_10.6 P100 BN100LB4 | 138 |
| 142 | 191 | 1.2 | 20.1 | 3480 | C322_20.1 S3 M3LA2 | 133 | C322_20.1 P100 BN100L2 | 134 |
| 147 | 185 | 2.1 | 9.6 | 4800 | C412_9.6 S3 M3LB4 | 141 | C412_9.6 P100 BN100LB4 | 142 |
| 152 | 177 | 1.2 | 9.3 | 3450 | C322_9.3 S3 M3LB4 | 133 | C322_9.3 P100 BN100LB4 | 134 |
| 157 | 173 | 1.3 | 18.2 | 3410 | C322_18.2 S3 M3LA2 | 133 | C322_18.2 P100 BN100L2 | 134 |
| 160 | 167 | 2.3 | 8.8 | 3990 | C362_8.8 S3 M3LB4 | 137 | C362_8.8 P100 BN100LB4 | 138 |
| 166 | 161 | 1.3 | 8.5 | 3400 | C322_8.5 S3 M3LB4 | 133 | C322_8.5 P100 BN100LB4 | 134 |
| 176 | 153 | 2.4 | 8.0 | 3840 | C362_8.0 S3 M3LB4 | 137 | C362_8.0 P100 BN100LB4 | 138 |
| 181 | 151 | 0.9 | 15.8 | 1940 | C222_15.8 S3 M3LA2 | 129 | C222_15.8 P100 BN100L2 | 130 |
| 183 | 148 | 1.4 | 15.6 | 3340 | C322_15.6 S3 M3LA2 | 133 | C322_15.6 P100 BN100L2 | 134 |
| 197 | 136 | 1.5 | 7.2 | 3300 | C322_7.2 S3 M3LB4 | 133 | C322_7.2 P100 BN100LB4 | 134 |
| 199 | 135 | 1.0 | 7.1 | 1940 | C222_7.1 S3 M3LB4 | 129 | C222_7.1 P100 BN100LB4 | 130 |
| 200 | 136 | 2.6 | 7.1 | 4490 | C412_7.1 S3 M3LB4 | 141 | C412_7.1 P100 BN100LB4 | 142 |
| 203 | 134 | 1.5 | 14.1 | 3250 | C322_14.1 S3 M3LA2 | 133 | C322_14.1 P100 BN100L2 | 134 |
| 208 | 129 | 2.8 | 6.8 | 3780 | C362_6.8 S3 M3LB4 | 137 | C362_6.8 P100 BN100LB4 | 138 |
| 222 | 123 | 2.8 | 6.4 | 4370 | C412_6.4 S3 M3LB4 | 141 | C412_6.4 P100 BN100LB4 | 142 |
| 225 | 119 | 1.3 | 6.3 | 3100 | C322_6.3 S3 M3LB4 | 133 | C322_6.3 P100 BN100LB4 | 134 |
| 232 | 117 | 1.7 | 12.3 | 3190 | C322_12.3 S3 M3LA2 | 133 | C322_12.3 P100 BN100L2 | 134 |
| 232 | 116 | 0.9 | 6.1 | 1600 | C222_6.1 S3 M3LB4 | 129 | C222_6.1 P100 BN100LB4 | 130 |
| 237 | 115 | 2.3 | 6.0 | 4090 | C412_6.0 S3 M3LB4 | 141 | C412_6.0 P100 BN100LB4 | 142 |
| 241 | 111 | 1.8 | 5.8 | 3530 | C362_5.8 S3 M3LB4 | 137 | C362_5.8 P100 BN100LB4 | 138 |
| 249 | 107 | 1.4 | 5.7 | 3040 | C322_5.7 S3 M3LB4 | 133 | C322_5.7 P100 BN100LB4 | 134 |
| 252 | 106 | 1.0 | 5.6 | 1750 | C222_5.6 S3 M3LB4 | 129 | C222_5.6 P100 BN100LB4 | 130 |
| 258 | 105 | 1.1 | 11.1 | 1850 | C222_11.1 S3 M3LA2 | 129 | C222_11.1 P100 BN100L2 | 130 |
| 255 | 106 | 1.8 | 11.2 | 3090 | C322_11.2 S3 M3LA2 | 133 | C322_11.2 P100 BN100L2 | 134 |
| 267 | 100 | 2.0 | 5.3 | 3380 | C362_5.3 S3 M3LB4 | 137 | C362_5.3 P100 BN100LB4 | 138 |
| 285 | 94 | 1.6 | 5.0 | 2950 | C322_5.0 S3 M3LB4 | 133 | C322_5.0 P100 BN100LB4 | 134 |
| 296 | 91 | 1.1 | 4.8 | 1780 | C222_4.8 S3 M3LB4 | 129 | C222_4.8 P100 BN100LB4 | 130 |
| 298 | 91 | 1.3 | 9.6 | 1880 | C222_9.6 S3 M3LA2 | 129 | C222_9.6 P100 BN100L2 | 130 |
| 302 | 90 | 2.9 | 4.7 | 3880 | C412_4.7 S3 M3LB4 | 141 | C412_4.7 P100 BN100LB4 | 142 |
| 305 | 88 | 2.3 | 4.6 | 3270 | C362_4.6 S3 M3LB4 | 137 | C362_4.6 P100 BN100LB4 | 138 |
| 308 | 88 | 2.0 | 9.3 | 2990 | C322_9.3 S3 M3LA2 | 133 | C322_9.3 P100 BN100L2 | 134 |
| 313 | 85 | 1.8 | 4.5 | 2880 | C322_4.5 S3 M3LB4 | 133 | C322_4.5 P100 BN100LB4 | 134 |
| 329 | 83 | 1.3 | 8.7 | 1840 | C222_8.7 S3 M3LA2 | 129 | C222_8.7 P100 BN100L2 | 130 |
| 331 | 81 | 1.2 | 4.3 | 1800 | C222_4.3 S3 M3LB4 | 129 | C222_4.3 P100 BN100LB4 | 130 |
| 336 | 80 | 2.5 | 4.2 | 3190 | C362_4.2 S3 M3LB4 | 137 | C362_4.2 P100 BN100LB4 | 138 |
| 336 | 81 | 2.1 | 8.5 | 2900 | C322_8.5 S3 M3LA2 | 133 | C322_8.5 P100 BN100L2 | 134 |
| 377 | 71 | 2.1 | 3.7 | 2780 | C322_3.7 S3 M3LB4 | 133 | C322_3.7 P100 BN100LB4 | 134 |
| 380 | 70 | 1.3 | 3.7 | 1740 | C222_3.7 S3 M3LB4 | 129 | C222_3.7 P100 BN100LB4 | 130 |
| 399 | 68 | 2.3 | 7.2 | 2810 | C322_7.2 S3 M3LA2 | 133 | C322_7.2 P100 BN100L2 | 134 |
| 404 | 66 | 3.0 | 3.5 | 3130 | C362_3.5 S3 M3LB4 | 137 | C362_3.5 P100 BN100LB4 | 138 |
| 404 | 67 | 1.6 | 7.1 | 1800 | C222_7.1 S3 M3LA2 | 129 | C222_7.1 P100 BN100L2 | 130 |
| 414 | 65 | 2.1 | 3.4 | 2690 | C322_3.4 S3 M3LB4 | 133 | C322_3.4 P100 BN100LB4 | 134 |
| 424 | 63 | 1.3 | 3.3 | 1740 | C222_3.3 S3 M3LB4 | 129 | C222_3.3 P100 BN100LB4 | 130 |
| 457 | 60 | 2.5 | 6.3 | 2650 | C322_6.3 S3 M3LA2 | 133 | C322_6.3 P100 BN100L2 | 134 |
| 470 | 58 | 1.5 | 6.1 | 1690 | C222_6.1 S3 M3LA2 | 129 | C222_6.1 P100 BN100L2 | 130 |
| 490 | 55 | 2.4 | 2.9 | 2610 | C322_2.9 S3 M3LB4 | 133 | C322_2.9 P100 BN100LB4 | 134 |
| 502 | 54 | 2.6 | 5.7 | 2570 | C322_5.7 S3 M3LA2 | 133 | C322_5.7 P100 BN100L2 | 134 |

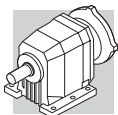


3 kW





| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-----|---------------|---|--|---|---|
| 511 | 53 | 1.5 | 5.6 | 1650 | C222_5.6 S3 M3LA2 | 129 | C222_5.6 P100 BN100L2 | 130 |
| 518 | 52 | 1.5 | 2.7 | 1660 | C222_2.7 S3 M3LB4 | 129 | C222_2.7 P100 BN100LB4 | 130 |
| 578 | 47 | 2.9 | 5.0 | 2500 | C322_5.0 S3 M3LA2 | 133 | C322_5.0 P100 BN100L2 | 134 |
| 636 | 54 | 2.4 | 4.5 | 2400 | C322_4.5 S3 M3LA2 | 133 | C322_4.5 P100 BN100L2 | 134 |
| 600 | 45 | 1.8 | 4.8 | 1620 | C222_4.8 S3 M3LA2 | 129 | C222_4.8 P100 BN100L2 | 130 |
| 665 | 41 | 1.8 | 4.3 | 1580 | C222_4.3 S3 M3LA2 | 129 | C222_4.3 P100 BN100L2 | 130 |
| 766 | 36 | 3.4 | 3.7 | 2320 | C322_3.7 S3 M3LA2 | 133 | C322_3.7 P100 BN100L2 | 134 |
| 771 | 35 | 2.0 | 3.7 | 1540 | C222_3.7 S3 M3LA2 | 129 | C222_3.7 P100 BN100L2 | 130 |
| 783 | 35 | 1.0 | 3.7 | 560 | C122_3.7 S3 M3LA2 | 125 | C122_3.7 P100 BN100L2 | 126 |
| 867 | 83 | 2.2 | 3.3 | 1480 | C222_3.3 S3 M3LA2 | 129 | C222_3.3 P100 BN100L2 | 130 |
| 894 | 30 | 1.1 | 3.2 | 630 | C122_3.2 S3 M3LA2 | 125 | C122_3.2 P100 BN100L2 | 126 |
| 1033 | 26 | 1.1 | 2.8 | 750 | C122_2.8 S3 M3LA2 | 125 | C122_2.8 P100 BN100L2 | 126 |
| 1051 | 26 | 2.5 | 2.7 | 1430 | C222_2.7 S3 M3LA2 | 129 | C222_2.7 P100 BN100L2 | 130 |

4 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|--|---|--|--|
| 2.8 | 12569 | 1.0 | 502.6 | 85000 | C1004_502.6 S3 M3LC4 | 162 | C1004_502.6 P112 BN112M4 | 163 |
| 3.4 | 10249 | 1.2 | 409.8 | 85000 | C1004_409.8 S3 M3LC4 | 162 | C1004_409.8 P112 BN112M4 | 163 |
| 4.3 | 8093 | 1.5 | 323.6 | 85000 | C1004_323.6 S3 M3LC4 | 162 | C1004_323.6 P112 BN112M4 | 163 |
| 4.7 | 7325 | 1.0 | 292.9 | 60000 | C904_292.9 S3 M3LC4 | 159 | C904_292.9 P112 BN112M4 | 160 |
| 5.2 | 6715 | 1.1 | 268.5 | 60000 | C904_268.5 S3 M3LC4 | 159 | C904_268.5 P112 BN112M4 | 160 |
| 5.7 | 6107 | 2.0 | 244.2 | 85000 | C1004_244.2 S3 M3LC4 | 162 | C1004_244.2 P112 BN112M4 | 163 |
| 6.0 | 5795 | 1.2 | 231.7 | 60000 | C904_231.7 S3 M3LC4 | 159 | C904_231.7 P112 BN112M4 | 160 |
| 7.5 | 4637 | 2.6 | 185.4 | 85000 | C1004_185.4 S3 M3LC4 | 162 | C1004_185.4 P112 BN112M4 | 163 |
| 8.1 | 4399 | 1.6 | 172.1 | 60000 | C903_172.1 S3 M3LC4 | 159 | C903_172.1 P112 BN112M4 | 160 |
| 8.2 | 4319 | 0.9 | 169.0 | 35000 | C803_169.0 S3 M3LC4 | 156 | C803_169.0 P112 BN112M4 | 157 |
| 10.2 | 3493 | 1.1 | 136.7 | 35000 | C803_136.7 S3 M3LC4 | 156 | C803_136.7 P112 BN112M4 | 157 |
| 10.4 | 3428 | 2.1 | 134.1 | 60000 | C903_134.1 S3 M3LC4 | 159 | C903_134.1 P112 BN112M4 | 160 |
| 11.9 | 2983 | 2.4 | 116.7 | 60000 | C903_116.7 S3 M3LC4 | 159 | C903_116.7 P112 BN112M4 | 160 |
| 12.7 | 2799 | 1.4 | 109.5 | 35000 | C803_109.5 S3 M3LC4 | 156 | C803_109.5 P112 BN112M4 | 157 |
| 14.3 | 2489 | 1.6 | 97.4 | 35000 | C803_97.4 S3 M3LC4 | 156 | C803_97.4 P112 BN112M4 | 157 |
| 14.4 | 2460 | 2.9 | 96.2 | 60000 | C903_96.2 S3 M3LC4 | 159 | C903_96.2 P112 BN112M4 | 160 |
| 15.6 | 2282 | 1.8 | 89.3 | 35000 | C803_89.3 S3 M3LC4 | 156 | C803_89.3 P112 BN112M4 | 157 |
| 15.8 | 2254 | 1.0 | 88.2 | 25000 | C703_88.2 S3 M3LC4 | 153 | C703_88.2 P112 BN112M4 | 154 |
| 17.1 | 2081 | 1.1 | 81.4 | 25000 | C703_81.4 S3 M3LC4 | 153 | C703_81.4 P112 BN112M4 | 154 |
| 19.5 | 1823 | 1.3 | 71.3 | 25000 | C703_71.3 S3 M3LC4 | 153 | C703_71.3 P112 BN112M4 | 154 |
| 19.7 | 1802 | 2.2 | 70.5 | 35000 | C803_70.5 S3 M3LC4 | 156 | C803_70.5 P112 BN112M4 | 157 |
| 20.5 | 1730 | 0.9 | 67.7 | 16000 | C613_67.7 S3 M3LC4 | 149 | C613_67.7 P112 BN112M4 | 150 |
| 23.7 | 1498 | 1.1 | 58.6 | 16000 | C613_58.6 S3 M3LC4 | 149 | C613_58.6 P112 BN112M4 | 150 |
| 24.3 | 1464 | 2.7 | 57.3 | 35000 | C803_57.3 S3 M3LC4 | 156 | C803_57.3 P112 BN112M4 | 157 |
| 24.6 | 1444 | 1.6 | 56.5 | 25000 | C703_56.5 S3 M3LC4 | 153 | C703_56.5 P112 BN112M4 | 154 |
| 26.0 | 1366 | 1.2 | 53.5 | 16000 | C613_53.5 S3 M3LC4 | 149 | C613_53.5 P112 BN112M4 | 150 |
| 26.6 | 1333 | 1.7 | 52.2 | 25000 | C703_52.2 S3 M3LC4 | 153 | C703_52.2 P112 BN112M4 | 154 |
| 29.2 | 1217 | 1.3 | 47.6 | 16000 | C613_47.6 S3 M3LC4 | 149 | C613_47.6 P112 BN112M4 | 150 |
| 29.3 | 1213 | 3.1 | 47.4 | 35000 | C803_47.4 S3 M3LC4 | 156 | C803_47.4 P112 BN112M4 | 157 |
| 31 | 1142 | 2.0 | 44.7 | 25000 | C703_44.7 S3 M3LC4 | 153 | C703_44.7 P112 BN112M4 | 154 |
| 32 | 1112 | 3.4 | 43.5 | 35000 | C803_43.5 S3 M3LC4 | 156 | C803_43.5 P112 BN112M4 | 157 |

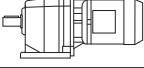





4 kW

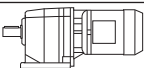



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 32 | 1110 | 1.4 | 43.4 | 16000 | C613_43.4 S3 M3LC4 | 149 | C613_43.4 P112 BN112M4 | 150 |
| 34 | 1055 | 2.2 | 41.3 | 25000 | C703_41.3 S3 M3LC4 | 153 | C703_41.3 P112 BN112M4 | 154 |
| 34 | 1035 | 1.0 | 40.5 | 10000 | C513_40.5 S3 M3LC4 | 145 | C513_40.5 P112 BN112M4 | 146 |
| 37 | 992 | 1.4 | 38.0 | 16000 | C612_38.0 S3 M3LC4 | 149 | C612_38.0 P112 BN112M4 | 150 |
| 38 | 945 | 1.1 | 37.0 | 10000 | C513_37.0 S3 M3LC4 | 145 | C513_37.0 P112 BN112M4 | 146 |
| 40 | 907 | 2.3 | 34.7 | 23400 | C702_34.7 S3 M3LC4 | 153 | C702_34.7 P112 BN112M4 | 154 |
| 41 | 893 | 1.4 | 34.2 | 15700 | C612_34.2 S3 M3LC4 | 149 | C612_34.2 P112 BN112M4 | 150 |
| 42 | 862 | 0.9 | 33.0 | 10000 | C512_33.0 S3 M3LC4 | 145 | C512_33.0 P112 BN112M4 | 146 |
| 46 | 795 | 1.7 | 30.4 | 15300 | C612_30.4 S3 M3LC4 | 149 | C612_30.4 P112 BN112M4 | 150 |
| 47 | 777 | 1.0 | 29.8 | 10000 | C512_29.8 S3 M3LC4 | 145 | C512_29.8 P112 BN112M4 | 146 |
| 50 | 724 | 2.9 | 27.7 | 22300 | C702_27.7 S3 M3LC4 | 153 | C702_27.7 P112 BN112M4 | 154 |
| 51 | 716 | 1.9 | 27.4 | 14900 | C612_27.4 S3 M3LC4 | 149 | C612_27.4 P112 BN112M4 | 150 |
| 54 | 676 | 1.2 | 25.9 | 10000 | C512_25.9 S3 M3LC4 | 145 | C512_25.9 P112 BN112M4 | 146 |
| 56 | 648 | 2.1 | 24.8 | 14600 | C612_24.8 S3 M3LC4 | 149 | C612_24.8 P112 BN112M4 | 150 |
| 60 | 610 | 1.3 | 23.4 | 10000 | C512_23.4 S3 M3LC4 | 145 | C512_23.4 P112 BN112M4 | 146 |
| 62 | 584 | 2.3 | 22.4 | 14200 | C612_22.4 S3 M3LC4 | 149 | C612_22.4 P112 BN112M4 | 150 |
| 66 | 547 | 1.5 | 21.0 | 9920 | C512_21.0 S3 M3LC4 | 145 | C512_21.0 P112 BN112M4 | 146 |
| 70 | 516 | 0.9 | 19.8 | 4760 | C412_19.8 S3 M3LC4 | 141 | C412_19.8 P112 BN112M4 | 142 |
| 71 | 512 | 2.6 | 19.6 | 13800 | C612_19.6 S3 M3LC4 | 149 | C612_19.6 P112 BN112M4 | 150 |
| 74 | 493 | 1.6 | 18.9 | 9730 | C512_18.9 S3 M3LC4 | 145 | C512_18.9 P112 BN112M4 | 146 |
| 78 | 465 | 1.0 | 17.8 | 4720 | C412_17.8 S3 M3LC4 | 141 | C412_17.8 P112 BN112M4 | 142 |
| 79 | 461 | 2.9 | 17.7 | 13400 | C612_17.7 S3 M3LC4 | 149 | C612_17.7 P112 BN112M4 | 150 |
| 84 | 433 | 1.8 | 16.6 | 9440 | C512_16.6 S3 M3LC4 | 145 | C512_16.6 P112 BN112M4 | 146 |
| 87 | 416 | 3.2 | 15.9 | 13100 | C612_15.9 S3 M3LC4 | 149 | C612_15.9 P112 BN112M4 | 150 |
| 88 | 413 | 1.1 | 15.8 | 4740 | C412_15.8 S3 M3LC4 | 141 | C412_15.8 P112 BN112M4 | 142 |
| 93 | 391 | 2.0 | 15.0 | 9230 | C512_15.0 S3 M3LC4 | 145 | C512_15.0 P112 BN112M4 | 146 |
| 95 | 378 | 1.0 | 14.8 | 3880 | C362_14.8 S3 M3LC4 | 137 | C362_14.8 P112 BN112M4 | 138 |
| 98 | 372 | 1.2 | 14.2 | 4690 | C412_14.2 S3 M3LC4 | 141 | C412_14.2 P112 BN112M4 | 142 |
| 105 | 342 | 1.1 | 13.3 | 3840 | C362_13.3 S3 M3LC4 | 137 | C362_13.3 P112 BN112M4 | 138 |
| 106 | 343 | 2.2 | 13.1 | 8930 | C512_13.1 S3 M3LC4 | 145 | C512_13.1 P112 BN112M4 | 146 |
| 112 | 324 | 1.3 | 12.4 | 4660 | C412_12.4 S3 M3LC4 | 141 | C412_12.4 P112 BN112M4 | 142 |
| 117 | 309 | 2.5 | 11.8 | 8720 | C512_11.8 S3 M3LC4 | 145 | C512_11.8 P112 BN112M4 | 146 |
| 120 | 299 | 1.3 | 11.7 | 3840 | C362_11.7 S3 M3LC4 | 137 | C362_11.7 P112 BN112M4 | 138 |
| 125 | 291 | 1.4 | 11.2 | 4580 | C412_11.2 S3 M3LC4 | 141 | C412_11.2 P112 BN112M4 | 142 |
| 132 | 272 | 1.4 | 10.6 | 3780 | C362_10.6 S3 M3LC4 | 137 | C362_10.6 P112 BN112M4 | 138 |
| 143 | 255 | 2.7 | 9.8 | 8290 | C512_9.8 S3 M3LC4 | 145 | C512_9.8 P112 BN112M4 | 146 |
| 145 | 251 | 1.6 | 9.6 | 4510 | C412_9.6 S3 M3LC4 | 141 | C412_9.6 P112 BN112M4 | 142 |
| 151 | 238 | 0.9 | 9.3 | 3150 | C322_9.3 S3 M3LC4 | 133 | C322_9.3 P112 BN112M4 | 134 |
| 158 | 229 | 3.0 | 8.8 | 8070 | C512_8.8 S3 M3LC4 | 145 | C512_8.8 P112 BN112M4 | 146 |
| 159 | 226 | 1.7 | 8.8 | 3720 | C362_8.8 S3 M3LC4 | 137 | C362_8.8 P112 BN112M4 | 138 |
| 161 | 226 | 1.7 | 8.6 | 4420 | C412_8.6 S3 M3LC4 | 141 | C412_8.6 P112 BN112M4 | 142 |
| 165 | 218 | 1.0 | 8.5 | 3110 | C322_8.5 S3 M3LC4 | 133 | C322_8.5 P112 BN112M4 | 134 |
| 174 | 206 | 1.8 | 8.0 | 3650 | C362_8.0 S3 M3LC4 | 137 | C362_8.0 P112 BN112M4 | 138 |
| 179 | 202 | 3.2 | 7.8 | 7800 | C512_7.8 S3 M3LC4 | 145 | C512_7.8 P112 BN112M4 | 146 |
| 184 | 197 | 1.1 | 15.6 | 3090 | C322_15.6 S3 M3LB2 | 133 | C322_15.6 P112 BN112M2 | 134 |
| 195 | 184 | 1.1 | 7.2 | 3070 | C322_7.2 S3 M3LC4 | 133 | C322_7.2 P112 BN112M4 | 134 |
| 197 | 184 | 1.9 | 7.1 | 4280 | C412_7.1 S3 M3LC4 | 141 | C412_7.1 P112 BN112M4 | 142 |
| 199 | 182 | 3.5 | 7.0 | 7580 | C512_7.0 S3 M3LC4 | 145 | C512_7.0 P112 BN112M4 | 146 |
| 204 | 178 | 1.2 | 14.1 | 3040 | C322_14.1 S3 M3LB2 | 133 | C322_14.1 P112 BN112M2 | 134 |
| 206 | 174 | 2.0 | 6.8 | 3580 | C362_6.8 S3 M3LC4 | 137 | C362_6.8 P112 BN112M4 | 138 |
| 218 | 166 | 2.1 | 6.4 | 4180 | C412_6.4 S3 M3LC4 | 141 | C412_6.4 P112 BN112M4 | 142 |

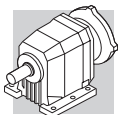


4 kW





| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 223 | 161 | 1.0 | 6.3 | 2840 | C322_6.3 S3 M3LC4 | 133 | C322_6.3 P112 BN112M4 | 134 |
| 233 | 156 | 1.3 | 12.3 | 2990 | C322_12.3 S3 M3LB2 | 133 | C322_12.3 P112 BN112M2 | 134 |
| 234 | 155 | 1.7 | 6.0 | 3840 | C412_6.0 S3 M3LC4 | 141 | C412_6.0 P112 BN112M4 | 142 |
| 239 | 150 | 1.3 | 5.8 | 3310 | C362_5.8 S3 M3LC4 | 137 | C362_5.8 P112 BN112M4 | 138 |
| 248 | 145 | 1.1 | 5.7 | 2780 | C322_5.7 S3 M3LC4 | 133 | C322_5.7 P112 BN112M4 | 134 |
| 256 | 142 | 1.3 | 11.2 | 2900 | C322_11.2 S3 M3LB2 | 133 | C322_11.2 P112 BN112M2 | 134 |
| 265 | 135 | 1.5 | 5.3 | 3200 | C362_5.3 S3 M3LC4 | 137 | C362_5.3 P112 BN112M4 | 138 |
| 283 | 127 | 1.2 | 5.0 | 2760 | C322_5.0 S3 M3LC4 | 133 | C322_5.0 P112 BN112M4 | 134 |
| 298 | 122 | 0.9 | 9.6 | 1680 | C222_9.6 S3 M3LB2 | 129 | C222_9.6 P112 BN112M2 | 130 |
| 303 | 119 | 1.7 | 4.6 | 3180 | C362_4.6 S3 M3LC4 | 137 | C362_4.6 P112 BN112M4 | 138 |
| 309 | 118 | 1.5 | 9.3 | 2840 | C322_9.3 S3 M3LB2 | 133 | C322_9.3 P112 BN112M2 | 134 |
| 311 | 115 | 1.3 | 4.5 | 2690 | C322_4.5 S3 M3LC4 | 133 | C322_4.5 P112 BN112M4 | 134 |
| 330 | 110 | 1.0 | 8.7 | 1660 | C222_8.7 S3 M3LB2 | 129 | C222_8.7 P112 BN112M2 | 130 |
| 333 | 108 | 1.9 | 4.2 | 3060 | C362_4.2 S3 M3LC4 | 137 | C362_4.2 P112 BN112M4 | 138 |
| 336 | 109 | 0.9 | 4.3 | 1300 | C222_4.3 S3 M3LC4 | 129 | C222_4.3 P112 BN112M4 | 130 |
| 338 | 107 | 1.6 | 8.5 | 2750 | C322_8.5 S3 M3LB2 | 133 | C322_8.5 P112 BN112M2 | 134 |
| 375 | 96 | 1.6 | 3.7 | 2640 | C322_3.7 S3 M3LC4 | 133 | C322_3.7 P112 BN112M4 | 134 |
| 378 | 95 | 0.9 | 3.7 | 1560 | C222_3.7 S3 M3LC4 | 129 | C222_3.7 P112 BN112M4 | 130 |
| 401 | 91 | 1.8 | 7.2 | 2690 | C322_7.2 S3 M3LB2 | 133 | C322_7.2 P112 BN112M2 | 134 |
| 402 | 89 | 2.2 | 3.5 | 3010 | C362_3.5 S3 M3LC4 | 137 | C362_3.5 P112 BN112M4 | 138 |
| 405 | 90 | 1.2 | 7.1 | 1650 | C222_7.1 S3 M3LB2 | 129 | C222_7.1 P112 BN112M2 | 130 |
| 411 | 87 | 1.6 | 3.4 | 2580 | C322_3.4 S3 M3LC4 | 133 | C322_3.4 P112 BN112M4 | 134 |
| 421 | 85 | 1.0 | 3.3 | 1540 | C222_3.3 S3 M3LC4 | 129 | C222_3.3 P112 BN112M4 | 130 |
| 440 | 82 | 2.5 | 3.2 | 2890 | C362_3.2 S3 M3LC4 | 137 | C362_3.2 P112 BN112M4 | 138 |
| 458 | 79 | 1.9 | 6.3 | 2530 | C322_6.3 S3 M3LB2 | 133 | C322_6.3 P112 BN112M2 | 134 |
| 471 | 77 | 1.1 | 6.1 | 1540 | C222_6.1 S3 M3LB2 | 129 | C222_6.1 P112 BN112M2 | 130 |
| 486 | 74 | 1.8 | 2.9 | 2500 | C322_2.9 S3 M3LC4 | 133 | C322_2.9 P112 BN112M4 | 134 |
| 513 | 54 | 1.5 | 5.6 | 1520 | C222_5.6 S3 M3LB2 | 129 | C222_5.6 P112 BN112M2 | 130 |
| 514 | 70 | 1.1 | 2.7 | 1530 | C222_2.7 S3 M3LC4 | 129 | C222_2.7 P112 BN112M4 | 130 |
| 521 | 69 | 2.9 | 2.7 | 2840 | C362_2.7 S3 M3LC4 | 137 | C362_2.7 P112 BN112M4 | 138 |
| 580 | 63 | 2.2 | 5.0 | 2410 | C322_5.0 S3 M3LB2 | 133 | C322_5.0 P112 BN112M2 | 134 |
| 602 | 60 | 1.3 | 4.8 | 1500 | C222_4.8 S3 M3LB2 | 129 | C222_4.8 P112 BN112M2 | 130 |
| 638 | 56 | 2.3 | 4.5 | 2330 | C322_4.5 S3 M3LB2 | 133 | C322_4.5 P112 BN112M2 | 134 |
| 667 | 54 | 1.4 | 4.3 | 1470 | C222_4.3 S3 M3LB2 | 129 | C222_4.3 P112 BN112M2 | 130 |
| 768 | 47 | 2.5 | 3.7 | 2250 | C322_3.7 S3 M3LB2 | 133 | C322_3.7 P112 BN112M2 | 134 |
| 774 | 47 | 1.5 | 3.7 | 1450 | C222_3.7 S3 M3LB2 | 129 | C222_3.7 P112 BN112M2 | 130 |
| 844 | 43 | 2.7 | 3.4 | 2170 | C322_3.4 S3 M3LB2 | 133 | C322_3.4 P112 BN112M2 | 134 |
| 870 | 42 | 1.6 | 3.3 | 1410 | C222_3.3 S3 M3LB2 | 129 | C222_3.3 P112 BN112M2 | 130 |
| 997 | 36 | 2.9 | 2.9 | 2100 | C322_2.9 S3 M3LB2 | 133 | C322_2.9 P112 BN112M2 | 134 |
| 1054 | 34 | 1.9 | 2.7 | 1370 | C222_2.7 S3 M3LB2 | 129 | C222_2.7 P112 BN112M2 | 130 |

5.5 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 3.8 | 12630 | 1.0 | 380.5 | 85000 | C1004_380.5 S4 M4SA4 | 162 | C1004_380.5 P132 BN132S4 | 163 |
| 4.4 | 10741 | 1.1 | 323.6 | 85000 | C1004_323.6 S4 M4SA4 | 162 | C1004_323.6 P132 BN132S4 | 163 |
| 4.8 | 9974 | 1.2 | 300.5 | 85000 | C1004_300.5 S4 M4SA4 | 162 | C1004_300.5 P132 BN132S4 | 163 |
| 5.5 | 8730 | 1.4 | 263.0 | 85000 | C1004_263.0 S4 M4SA4 | 162 | C1004_263.0 P132 BN132S4 | 163 |

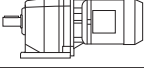





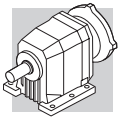
5.5 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 5.9 | 8106 | 1.5 | 244.2 | 85000 | C1004_244.2 S4 M4SA4 | 162 | C1004_244.2 P132 BN132S4 | 163 |
| 6.2 | 7691 | 0.9 | 231.7 | 60000 | C904_231.7 S4 M4SA4 | 159 | C904_231.7 P132 BN132S4 | 160 |
| 6.8 | 7050 | 1.0 | 212.4 | 60000 | C904_212.4 S4 M4SA4 | 159 | C904_212.4 P132 BN132S4 | 160 |
| 7.2 | 6625 | 1.8 | 199.6 | 85000 | C1004_199.6 S4 M4SA4 | 162 | C1004_199.6 P132 BN132S4 | 163 |
| 8.4 | 5838 | 1.2 | 172.1 | 60000 | C903_172.1 S4 M4SA4 | 159 | C903_172.1 P132 BN132S4 | 160 |
| 9.6 | 5103 | 2.4 | 150.4 | 85000 | C1003_150.4 S4 M4SA4 | 162 | C1003_150.4 P132 BN132S4 | 163 |
| 9.8 | 4964 | 1.5 | 146.3 | 60000 | C903_146.3 S4 M4SA4 | 159 | C903_146.3 P132 BN132S4 | 160 |
| 12.1 | 4052 | 1.0 | 119.5 | 35000 | C803_119.5 S4 M4SA4 | 156 | C803_119.5 P132 BN132S4 | 157 |
| 12.3 | 3960 | 1.8 | 116.7 | 60000 | C903_116.7 S4 M4SA4 | 159 | C903_116.7 P132 BN132S4 | 160 |
| 14.8 | 3304 | 1.2 | 97.4 | 35000 | C803_97.4 S4 M4SA4 | 156 | C803_97.4 P132 BN132S4 | 157 |
| 15.0 | 3265 | 2.2 | 96.2 | 60000 | C903_96.2 S4 M4SA4 | 159 | C903_96.2 P132 BN132S4 | 160 |
| 17.7 | 2755 | 2.6 | 81.2 | 59100 | C903_81.2 S4 M4SA4 | 159 | C903_81.2 P132 BN132S4 | 160 |
| 18.7 | 2609 | 1.5 | 76.9 | 35000 | C803_76.9 S4 M4SA4 | 156 | C803_76.9 P132 BN132S4 | 157 |
| 20.2 | 2420 | 1.0 | 71.3 | 25000 | C703_71.3 S4 M4SA4 | 153 | C703_71.3 P132 BN132S4 | 154 |
| 20.4 | 2392 | 1.7 | 70.5 | 35000 | C803_70.5 S4 M4SA4 | 156 | C803_70.5 P132 BN132S4 | 157 |
| 21.9 | 2234 | 1.0 | 65.9 | 25000 | C703_65.9 S4 M4SA4 | 153 | C703_65.9 P132 BN132S4 | 154 |
| 25.1 | 1944 | 2.1 | 57.3 | 35000 | C803_57.3 S4 M4SA4 | 156 | C803_57.3 P132 BN132S4 | 157 |
| 25.5 | 1917 | 1.2 | 56.5 | 25000 | C703_56.5 S4 M4SA4 | 153 | C703_56.5 P132 BN132S4 | 154 |
| 27.6 | 1770 | 1.3 | 52.2 | 24700 | C703_52.2 S4 M4SA4 | 153 | C703_52.2 P132 BN132S4 | 154 |
| 30 | 1616 | 1.0 | 47.6 | 15300 | C613_47.6 S4 M4SA4 | 149 | C613_47.6 P132 BN132S4 | 150 |
| 30 | 1609 | 2.4 | 47.4 | 35000 | C803_47.4 S4 M4SA4 | 156 | C803_47.4 P132 BN132S4 | 157 |
| 32 | 1516 | 1.5 | 44.7 | 24100 | C703_44.7 S4 M4SA4 | 153 | C703_44.7 P132 BN132S4 | 154 |
| 33 | 1475 | 2.6 | 43.5 | 35000 | C803_43.5 S4 M4SA4 | 156 | C803_43.5 P132 BN132S4 | 157 |
| 33 | 1474 | 1.1 | 43.4 | 15000 | C613_43.4 S4 M4SA4 | 149 | C613_43.4 P132 BN132S4 | 150 |
| 35 | 1400 | 1.6 | 41.3 | 23800 | C703_41.3 S4 M4SA4 | 153 | C703_41.3 P132 BN132S4 | 154 |
| 37 | 1355 | 2.4 | 39.1 | 35000 | C802_39.1 S4 M4SA4 | 156 | C802_39.1 P132 BN132S4 | 157 |
| 38 | 1317 | 1.0 | 38.0 | 14800 | C612_38.0 S4 M4SA4 | 149 | C612_38.0 P132 BN132S4 | 150 |
| 41 | 1204 | 1.7 | 34.7 | 22100 | C702_34.7 S4 M4SA4 | 153 | C702_34.7 P132 BN132S4 | 154 |
| 42 | 1186 | 1.0 | 34.2 | 14500 | C612_34.2 S4 M4SA4 | 149 | C612_34.2 P132 BN132S4 | 150 |
| 46 | 1086 | 3.4 | 31.3 | 33400 | C802_31.3 S4 M4SA4 | 156 | C802_31.3 P132 BN132S4 | 157 |
| 47 | 1055 | 1.3 | 30.4 | 14300 | C612_30.4 S4 M4SA4 | 149 | C612_30.4 P132 BN132S4 | 150 |
| 48 | 1020 | 1.0 | 30.1 | 9610 | C513_30.1 S4 M4SA4 | 145 | C513_30.1 P132 BN132S4 | 146 |
| 52 | 961 | 2.2 | 27.7 | 21200 | C702_27.7 S4 M4SA4 | 153 | C702_27.7 P132 BN132S4 | 154 |
| 52 | 931 | 1.0 | 27.4 | 9490 | C513_27.4 S4 M4SA4 | 145 | C513_27.4 P132 BN132S4 | 146 |
| 53 | 950 | 1.4 | 27.4 | 13900 | C612_27.4 S4 M4SA4 | 149 | C612_27.4 P132 BN132S4 | 150 |
| 58 | 860 | 1.6 | 24.8 | 13700 | C612_24.8 S4 M4SA4 | 149 | C612_24.8 P132 BN132S4 | 150 |
| 62 | 809 | 1.0 | 23.4 | 9310 | C512_23.4 S4 M4SA4 | 145 | C512_23.4 P132 BN132S4 | 146 |
| 63 | 792 | 2.7 | 22.9 | 20400 | C702_22.9 S4 M4SA4 | 153 | C702_22.9 P132 BN132S4 | 154 |
| 64 | 775 | 1.7 | 22.4 | 13400 | C612_22.4 S4 M4SA4 | 149 | C612_22.4 P132 BN132S4 | 150 |
| 69 | 726 | 1.1 | 21.0 | 9150 | C512_21.0 S4 M4SA4 | 145 | C512_21.0 P132 BN132S4 | 146 |
| 73 | 679 | 2.0 | 19.6 | 13100 | C612_19.6 S4 M4SA4 | 149 | C612_19.6 P132 BN132S4 | 150 |
| 75 | 668 | 3.1 | 19.3 | 19700 | C702_19.3 S4 M4SA4 | 153 | C702_19.3 P132 BN132S4 | 154 |
| 76 | 655 | 1.2 | 18.9 | 9030 | C512_18.9 S4 M4SA4 | 145 | C512_18.9 P132 BN132S4 | 146 |
| 82 | 612 | 2.2 | 17.7 | 12700 | C612_17.7 S4 M4SA4 | 149 | C612_17.7 P132 BN132S4 | 150 |
| 87 | 575 | 1.4 | 16.6 | 8810 | C512_16.6 S4 M4SA4 | 145 | C512_16.6 P132 BN132S4 | 146 |
| 90 | 552 | 2.4 | 15.9 | 12500 | C612_15.9 S4 M4SA4 | 149 | C612_15.9 P132 BN132S4 | 150 |
| 96 | 519 | 1.5 | 15.0 | 8660 | C512_15.0 S4 M4SA4 | 145 | C512_15.0 P132 BN132S4 | 146 |
| 100 | 497 | 2.7 | 14.3 | 12100 | C612_14.3 S4 M4SA4 | 149 | C612_14.3 P132 BN132S4 | 150 |
| 101 | 494 | 0.9 | 14.2 | 4000 | C412_14.2 S4 M4SA4 | 141 | C412_14.2 P132 BN132S4 | 142 |
| 110 | 455 | 1.6 | 13.1 | 8420 | C512_13.1 S4 M4SA4 | 145 | C512_13.1 P132 BN132S4 | 146 |
| 116 | 429 | 1.0 | 12.4 | 4060 | C412_12.4 S4 M4SA4 | 141 | C412_12.4 P132 BN132S4 | 142 |

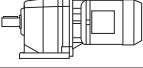





5.5 kW

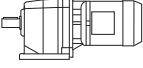



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 119 | 419 | 3.2 | 12.1 | 11600 | C612_12.1 S4 M4SA4 | 149 | C612_12.1 P132 BN132S4 | 150 |
| 122 | 410 | 1.9 | 11.8 | 8250 | C512_11.8 S4 M4SA4 | 145 | C512_11.8 P132 BN132S4 | 146 |
| 123 | 399 | 1.0 | 11.7 | 3380 | C362_11.7 S4 M4SA4 | 137 | C362_11.7 P132 BN132S4 | 138 |
| 129 | 387 | 1.1 | 11.2 | 4030 | C412_11.2 S4 M4SA4 | 141 | C412_11.2 P132 BN132S4 | 142 |
| 136 | 363 | 1.0 | 10.6 | 3350 | C362_10.6 S4 M4SA4 | 137 | C362_10.6 P132 BN132S4 | 138 |
| 148 | 338 | 2.0 | 9.8 | 7890 | C512_9.8 S4 M4SA4 | 145 | C512_9.8 P132 BN132S4 | 146 |
| 150 | 333 | 1.2 | 9.6 | 4030 | C412_9.6 S4 M4SA4 | 141 | C412_9.6 P132 BN132S4 | 142 |
| 164 | 305 | 2.2 | 8.8 | 7700 | C512_8.8 S4 M4SA4 | 145 | C512_8.8 P132 BN132S4 | 146 |
| 164 | 301 | 1.3 | 8.8 | 3350 | C362_8.8 S4 M4SA4 | 137 | C362_8.8 P132 BN132S4 | 138 |
| 167 | 299 | 1.3 | 8.6 | 3980 | C412_8.6 S4 M4SA4 | 141 | C412_8.6 P132 BN132S4 | 142 |
| 179 | 275 | 1.3 | 8.0 | 3330 | C362_8.0 S4 M4SA4 | 137 | C362_8.0 P132 BN132S4 | 138 |
| 186 | 269 | 2.4 | 7.8 | 7460 | C512_7.8 S4 M4SA4 | 145 | C512_7.8 P132 BN132S4 | 146 |
| 204 | 245 | 1.4 | 7.1 | 3920 | C412_7.1 S4 M4SA4 | 141 | C412_7.1 P132 BN132S4 | 142 |
| 206 | 242 | 2.6 | 7.0 | 7280 | C512_7.0 S4 M4SA4 | 145 | C512_7.0 P132 BN132S4 | 146 |
| 212 | 232 | 1.5 | 6.8 | 3280 | C362_6.8 S4 M4SA4 | 137 | C362_6.8 P132 BN132S4 | 138 |
| 226 | 221 | 1.6 | 6.4 | 3840 | C412_6.4 S4 M4SA4 | 141 | C412_6.4 P132 BN132S4 | 142 |
| 240 | 208 | 3.2 | 6.0 | 9480 | C612_6.0 S4 M4SA4 | 149 | C612_6.0 P132 BN132S4 | 150 |
| 242 | 206 | 1.3 | 6.0 | 3430 | C412_6.0 S4 M4SA4 | 141 | C412_6.0 P132 BN132S4 | 142 |
| 246 | 200 | 1.0 | 5.8 | 3020 | C362_5.8 S4 M4SA4 | 137 | C362_5.8 P132 BN132S4 | 138 |
| 256 | 195 | 2.2 | 5.6 | 6720 | C512_5.6 S4 M4SA4 | 145 | C512_5.6 P132 BN132S4 | 146 |
| 259 | 193 | 1.7 | 11.2 | 3770 | C412_11.2 S4 M4SA2 | 141 | C412_11.2 P132 BN132SA2 | 142 |
| 262 | 191 | 1.3 | 3.6 | 3410 | C412_3.6 S4 M4LB6 | 141 | C412_3.6 P132 BN132MB6 | 142 |
| 273 | 181 | 1.1 | 5.3 | 2930 | C362_5.3 S4 M4SA4 | 137 | C362_5.3 P132 BN132S4 | 138 |
| 286 | 175 | 2.4 | 3.3 | 6530 | C512_3.3 S4 M4LB6 | 145 | C512_3.3 P132 BN132MB6 | 146 |
| 291 | 169 | 0.9 | 5.0 | 2480 | C322_5.0 S4 M4SA4 | 133 | C322_5.0 P132 BN132S4 | 134 |
| 301 | 166 | 1.9 | 9.6 | 3680 | C412_9.6 S4 M4SA2 | 141 | C412_9.6 P132 BN132SA2 | 142 |
| 309 | 162 | 1.6 | 4.7 | 3360 | C412_4.7 S4 M4SA4 | 141 | C412_4.7 P132 BN132S4 | 142 |
| 312 | 158 | 1.3 | 4.6 | 2860 | C362_4.6 S4 M4SA4 | 137 | C362_4.6 P132 BN132S4 | 138 |
| 320 | 154 | 1.0 | 4.5 | 2500 | C322_4.5 S4 M4SA4 | 133 | C322_4.5 P132 BN132S4 | 134 |
| 323 | 154 | 2.8 | 4.5 | 6330 | C512_4.5 S4 M4SA4 | 145 | C512_4.5 P132 BN132S4 | 146 |
| 334 | 149 | 2.0 | 8.6 | 3600 | C412_8.6 S4 M4SA2 | 141 | C412_8.6 P132 BN132SA2 | 142 |
| 343 | 144 | 1.4 | 4.2 | 2830 | C362_4.2 S4 M4SA4 | 137 | C362_4.2 P132 BN132S4 | 138 |
| 355 | 140 | 1.7 | 2.7 | 3300 | C412_2.7 S4 M4LB6 | 141 | C412_2.7 P132 BN132MB6 | 142 |
| 359 | 139 | 2.9 | 2.6 | 6150 | C512_2.6 S4 M4LB6 | 145 | C512_2.6 P132 BN132MB6 | 146 |
| 361 | 138 | 2.1 | 8.0 | 2850 | C362_8.0 S4 M4SA2 | 137 | C362_8.0 P132 BN132SA2 | 138 |
| 386 | 128 | 1.2 | 3.7 | 2410 | C322_3.7 S4 M4SA4 | 133 | C322_3.7 P132 BN132S4 | 134 |
| 399 | 125 | 2.0 | 3.6 | 3240 | C412_3.6 S4 M4SA4 | 141 | C412_3.6 P132 BN132S4 | 142 |
| 409 | 122 | 2.3 | 7.1 | 3460 | C412_7.1 S4 M4SA2 | 141 | C412_7.1 P132 BN132SA2 | 142 |
| 413 | 119 | 1.7 | 3.5 | 2750 | C362_3.5 S4 M4SA4 | 137 | C362_3.5 P132 BN132S4 | 138 |
| 422 | 117 | 1.2 | 3.4 | 2370 | C322_3.4 S4 M4SA4 | 133 | C322_3.4 P132 BN132S4 | 134 |
| 425 | 118 | 2.4 | 6.8 | 2750 | C362_6.8 S4 M4SA2 | 137 | C362_6.8 P132 BN132SA2 | 138 |
| 453 | 109 | 1.8 | 3.2 | 2700 | C362_3.2 S4 M4SA4 | 137 | C362_3.2 P132 BN132S4 | 138 |
| 454 | 110 | 2.5 | 6.4 | 3370 | C412_6.4 S4 M4SA2 | 141 | C412_6.4 P132 BN132SA2 | 142 |
| 485 | 103 | 2.5 | 6.0 | 3140 | C412_6.0 S4 M4SA2 | 141 | C412_6.0 P132 BN132SA2 | 142 |
| 498 | 100 | 2.0 | 5.8 | 2620 | C362_5.8 S4 M4SA2 | 137 | C362_5.8 P132 BN132SA2 | 138 |
| 500 | 98 | 1.3 | 2.9 | 2310 | C322_2.9 S4 M4SA4 | 133 | C322_2.9 P132 BN132S4 | 134 |
| 536 | 92 | 2.2 | 2.7 | 2620 | C362_2.7 S4 M4SA4 | 137 | C362_2.7 P132 BN132S4 | 138 |
| 542 | 92 | 2.7 | 2.7 | 3070 | C412_2.7 S4 M4SA4 | 141 | C412_2.7 P132 BN132S4 | 142 |
| 545 | 92 | 2.2 | 5.3 | 2550 | C362_5.3 S4 M4SA2 | 137 | C362_5.3 P132 BN132SA2 | 138 |
| 578 | 86 | 1.6 | 5.0 | 2230 | C322_5.0 S4 M4SA2 | 133 | C322_5.0 P132 BN132SA2 | 134 |
| 620 | 81 | 3.2 | 4.7 | 2990 | C412_4.7 S4 M4SA2 | 141 | C412_4.7 P132 BN132SA2 | 142 |



5.5 kW

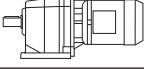



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 642 | 78 | 1.7 | 4.5 | 2190 | C322_4.5 S4 M4SA2 | 133 | C322_4.5 P132 BN132SA2 | 134 |
| 781 | 64 | 1.9 | 3.7 | 2120 | C322_3.7 S4 M4SA2 | 133 | C322_3.7 P132 BN132SA2 | 134 |
| 850 | 59 | 2.0 | 3.4 | 2080 | C322_3.4 S4 M4SA2 | 133 | C322_3.4 P132 BN132SA2 | 134 |
| 1004 | 50 | 2.1 | 2.9 | 2000 | C322_2.9 S4 M4SA2 | 133 | C322_2.9 P132 BN132SA2 | 134 |

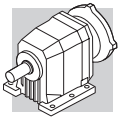
7.5 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 5.5 | 11904 | 1.0 | 263.0 | 85000 | C1004_263.0 S4 M4LA4 | 162 | C1004_263.0 P132 BN132MA4 | 163 |
| 7.2 | 9034 | 1.3 | 199.6 | 85000 | C1004_199.6 S4 M4LA4 | 162 | C1004_199.6 P132 BN132MA4 | 163 |
| 8.4 | 7961 | 0.9 | 172.1 | 60000 | C903_172.1 S4 M4LA4 | 159 | C903_172.1 P132 BN132MA4 | 160 |
| 9.6 | 6958 | 1.7 | 150.4 | 85000 | C1003_150.4 S4 M4LA4 | 162 | C1003_150.4 P132 BN132MA4 | 163 |
| 9.8 | 6769 | 1.1 | 146.3 | 59600 | C903_146.3 S4 M4LA4 | 159 | C903_146.3 P132 BN132MA4 | 160 |
| 12.3 | 5400 | 1.3 | 116.7 | 58600 | C903_116.7 S4 M4LA4 | 159 | C903_116.7 P132 BN132MA4 | 160 |
| 12.9 | 5176 | 2.3 | 111.9 | 85000 | C1003_111.9 S4 M4LA4 | 162 | C1003_111.9 P132 BN132MA4 | 163 |
| 16.1 | 4129 | 1.0 | 89.3 | 35000 | C803_89.3 S4 M4LA4 | 156 | C803_89.3 P132 BN132MA4 | 157 |
| 16.3 | 4081 | 1.7 | 88.2 | 56600 | C903_88.2 S4 M4LA4 | 159 | C903_88.2 P132 BN132MA4 | 160 |
| 16.8 | 3958 | 3.0 | 85.6 | 85000 | C1003_85.6 S4 M4LA4 | 162 | C1003_85.6 P132 BN132MA4 | 163 |
| 19.3 | 3444 | 2.1 | 74.4 | 55200 | C903_74.4 S4 M4LA4 | 159 | C903_74.4 P132 BN132MA4 | 160 |
| 20.4 | 3261 | 1.2 | 70.5 | 35000 | C803_70.5 S4 M4LA4 | 156 | C803_70.5 P132 BN132MA4 | 157 |
| 23.0 | 2891 | 1.4 | 62.5 | 35000 | C803_62.5 S4 M4LA4 | 156 | C803_62.5 P132 BN132MA4 | 157 |
| 24.3 | 2738 | 2.6 | 59.2 | 53000 | C903_59.2 S4 M4LA4 | 159 | C903_59.2 P132 BN132MA4 | 160 |
| 27.6 | 2413 | 1.0 | 52.2 | 22900 | C703_52.2 S4 M4LA4 | 153 | C703_52.2 P132 BN132MA4 | 154 |
| 30 | 2195 | 1.7 | 47.4 | 35000 | C803_47.4 S4 M4LA4 | 156 | C803_47.4 P132 BN132MA4 | 157 |
| 32 | 2068 | 1.1 | 44.7 | 22500 | C703_44.7 S4 M4LA4 | 153 | C703_44.7 P132 BN132MA4 | 154 |
| 35 | 1909 | 1.2 | 41.3 | 22300 | C703_41.3 S4 M4LA4 | 153 | C703_41.3 P132 BN132MA4 | 154 |
| 37 | 1848 | 1.7 | 39.1 | 33600 | C802_39.1 S4 M4LA4 | 156 | C802_39.1 P132 BN132MA4 | 157 |
| 40 | 1672 | 0.9 | 36.1 | 13300 | C613_36.1 S4 M4LA4 | 149 | C613_36.1 P132 BN132MA4 | 150 |
| 41 | 1642 | 1.3 | 34.7 | 20500 | C702_34.7 S4 M4LA4 | 153 | C702_34.7 P132 BN132MA4 | 154 |
| 44 | 1525 | 1.0 | 33.0 | 13100 | C613_33.0 S4 M4LA4 | 149 | C613_33.0 P132 BN132MA4 | 150 |
| 46 | 1481 | 2.5 | 31.3 | 32200 | C802_31.3 S4 M4LA4 | 156 | C802_31.3 P132 BN132MA4 | 157 |
| 47 | 1439 | 0.9 | 30.4 | 13000 | C612_30.4 S4 M4LA4 | 149 | C612_30.4 P132 BN132MA4 | 150 |
| 49 | 1358 | 1.1 | 29.4 | 13100 | C613_29.4 S4 M4LA4 | 149 | C613_29.4 P132 BN132MA4 | 150 |
| 52 | 1310 | 1.6 | 27.7 | 20000 | C702_27.7 S4 M4LA4 | 153 | C702_27.7 P132 BN132MA4 | 154 |
| 53 | 1296 | 1.0 | 27.4 | 12800 | C612_27.4 S4 M4LA4 | 149 | C612_27.4 P132 BN132MA4 | 150 |
| 55 | 1226 | 3.0 | 25.9 | 31000 | C802_25.9 S4 M4LA4 | 156 | C802_25.9 P132 BN132MA4 | 157 |
| 58 | 1173 | 1.2 | 24.8 | 12700 | C612_24.8 S4 M4LA4 | 149 | C612_24.8 P132 BN132MA4 | 150 |
| 60 | 1132 | 3.1 | 24.0 | 30500 | C802_24.0 S4 M4LA4 | 156 | C802_24.0 P132 BN132MA4 | 157 |
| 63 | 1080 | 1.9 | 22.9 | 19400 | C702_22.9 S4 M4LA4 | 153 | C702_22.9 P132 BN132MA4 | 154 |
| 64 | 1056 | 1.3 | 22.4 | 12500 | C612_22.4 S4 M4LA4 | 149 | C612_22.4 P132 BN132MA4 | 150 |
| 65 | 1051 | 3.5 | 22.2 | 30000 | C802_22.2 S4 M4LA4 | 156 | C802_22.2 P132 BN132MA4 | 157 |
| 73 | 926 | 1.5 | 19.6 | 12300 | C612_19.6 S4 M4LA4 | 149 | C612_19.6 P132 BN132MA4 | 150 |
| 75 | 911 | 2.3 | 19.3 | 18900 | C702_19.3 S4 M4LA4 | 153 | C702_19.3 P132 BN132MA4 | 154 |
| 82 | 834 | 1.6 | 17.7 | 12000 | C612_17.7 S4 M4LA4 | 149 | C612_17.7 P132 BN132MA4 | 150 |
| 86 | 789 | 2.6 | 16.7 | 18200 | C702_16.7 S4 M4LA4 | 153 | C702_16.7 P132 BN132MA4 | 154 |
| 87 | 784 | 1.0 | 16.6 | 8070 | C512_16.6 S4 M4LA4 | 145 | C512_16.6 P132 BN132MA4 | 146 |
| 90 | 753 | 1.8 | 15.9 | 11800 | C612_15.9 S4 M4LA4 | 149 | C612_15.9 P132 BN132MA4 | 150 |
| 96 | 707 | 1.1 | 15.0 | 8000 | C512_15.0 S4 M4LA4 | 145 | C512_15.0 P132 BN132MA4 | 146 |

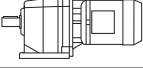






7.5 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 100 | 678 | 2.0 | 14.3 | 11500 | C612_14.3 S4 M4LA4 | 149 | C612_14.3 P132 BN132MA4 | 150 |
| 110 | 620 | 1.2 | 13.1 | 7840 | C512_13.1 S4 M4LA4 | 145 | C512_13.1 P132 BN132MA4 | 146 |
| 111 | 616 | 3.4 | 13.0 | 17500 | C702_13.0 S4 M4LA4 | 153 | C702_13.0 P132 BN132MA4 | 154 |
| 119 | 571 | 2.4 | 12.1 | 11100 | C612_12.1 S4 M4LA4 | 149 | C612_12.1 P132 BN132MA4 | 150 |
| 122 | 559 | 1.4 | 11.8 | 7730 | C512_11.8 S4 M4LA4 | 145 | C512_11.8 P132 BN132MA4 | 146 |
| 132 | 515 | 2.6 | 10.9 | 10900 | C612_10.9 S4 M4LA4 | 149 | C612_10.9 P132 BN132MA4 | 150 |
| 147 | 464 | 2.9 | 9.8 | 10600 | C612_9.8 S4 M4LA4 | 149 | C612_9.8 P132 BN132MA4 | 150 |
| 148 | 461 | 1.5 | 9.8 | 7450 | C512_9.8 S4 M4LA4 | 145 | C512_9.8 P132 BN132MA4 | 146 |
| 163 | 418 | 3.2 | 8.8 | 10300 | C612_8.8 S4 M4LA4 | 149 | C612_8.8 P132 BN132MA4 | 150 |
| 164 | 415 | 1.6 | 8.8 | 7320 | C512_8.8 S4 M4LA4 | 145 | C512_8.8 P132 BN132MA4 | 146 |
| 164 | 418 | 0.9 | 8.8 | 2880 | C362_8.8 S4 M4LA4 | 137 | C362_8.8 P132 BN132MA4 | 138 |
| 167 | 408 | 0.9 | 8.6 | 3430 | C412_8.6 S4 M4LA4 | 141 | C412_8.6 P132 BN132MA4 | 142 |
| 179 | 381 | 1.0 | 8.0 | 2900 | C362_8.0 S4 M4LA4 | 137 | C362_8.0 P132 BN132MA4 | 138 |
| 186 | 366 | 1.7 | 7.8 | 7120 | C512_7.8 S4 M4LA4 | 145 | C512_7.8 P132 BN132MA4 | 146 |
| 204 | 334 | 1.1 | 7.1 | 3470 | C412_7.1 S4 M4LA4 | 141 | C412_7.1 P132 BN132MA4 | 142 |
| 206 | 330 | 1.9 | 7.0 | 6970 | C512_7.0 S4 M4LA4 | 145 | C512_7.0 P132 BN132MA4 | 146 |
| 212 | 322 | 1.1 | 6.8 | 2900 | C362_6.8 S4 M4LA4 | 137 | C362_6.8 P132 BN132MA4 | 138 |
| 226 | 301 | 1.1 | 6.4 | 3440 | C412_6.4 S4 M4LA4 | 141 | C412_6.4 P132 BN132MA4 | 142 |
| 240 | 284 | 2.3 | 6.0 | 9180 | C612_6.0 S4 M4LA4 | 149 | C612_6.0 P132 BN132MA4 | 150 |
| 242 | 281 | 0.9 | 6.0 | 2920 | C412_6.0 S4 M4LA4 | 141 | C412_6.0 P132 BN132MA4 | 142 |
| 256 | 266 | 1.6 | 5.6 | 6410 | C512_5.6 S4 M4LA4 | 145 | C512_5.6 P132 BN132MA4 | 146 |
| 309 | 220 | 1.2 | 4.7 | 2960 | C412_4.7 S4 M4LA4 | 141 | C412_4.7 P132 BN132MA4 | 142 |
| 312 | 220 | 0.9 | 4.6 | 2600 | C362_4.6 S4 M4LA4 | 137 | C362_4.6 P132 BN132MA4 | 138 |
| 316 | 215 | 3.1 | 4.6 | 8550 | C612_4.6 S4 M4LA4 | 149 | C612_4.6 P132 BN132MA4 | 150 |
| 323 | 210 | 2.1 | 4.5 | 6090 | C512_4.5 S4 M4LA4 | 145 | C512_4.5 P132 BN132MA4 | 146 |
| 339 | 201 | 3.3 | 2.8 | 8390 | C612_2.8 S5 M5SA6 | 149 | C612_2.8 P160 BN160M6 | 150 |
| 343 | 199 | 1.0 | 4.2 | 2550 | C362_4.2 S4 M4LA4 | 137 | C362_4.2 P132 BN132MA4 | 138 |
| 363 | 187 | 2.1 | 2.6 | 5920 | C512_2.6 S5 M5SA6 | 145 | C512_2.6 P160 BN160M6 | 146 |
| 399 | 171 | 1.5 | 3.6 | 2930 | C412_3.6 S4 M4LA4 | 141 | C412_3.6 P132 BN132MA4 | 142 |
| 410 | 166 | 1.7 | 7.1 | 3240 | C412_7.1 S4 M4SB2 | 141 | C412_7.1 P132 BN132SB2 | 142 |
| 413 | 166 | 1.2 | 3.5 | 2500 | C362_3.5 S4 M4LA4 | 137 | C362_3.5 P132 BN132MA4 | 138 |
| 435 | 156 | 2.7 | 3.3 | 5660 | C512_3.3 S4 M4LA4 | 145 | C512_3.3 P132 BN132MA4 | 146 |
| 453 | 151 | 1.3 | 3.2 | 2500 | C362_3.2 S4 M4LA4 | 137 | C362_3.2 P132 BN132MA4 | 138 |
| 456 | 149 | 1.8 | 6.4 | 3170 | C412_6.4 S4 M4SB2 | 141 | C412_6.4 P132 BN132SB2 | 142 |
| 487 | 140 | 1.9 | 6.0 | 2880 | C412_6.0 S4 M4SB2 | 141 | C412_6.0 P132 BN132SB2 | 142 |
| 500 | 137 | 1.0 | 2.9 | 2100 | C322_2.9 S4 M4LA4 | 133 | C322_2.9 P132 BN132MA4 | 134 |
| 515 | 132 | 3.1 | 5.6 | 5420 | C512_5.6 S4 M4SB2 | 145 | C512_5.6 P132 BN132SB2 | 146 |
| 536 | 128 | 1.6 | 2.7 | 2440 | C362_2.7 S4 M4LA4 | 137 | C362_2.7 P132 BN132MA4 | 138 |
| 542 | 126 | 1.9 | 2.7 | 2840 | C412_2.7 S4 M4LA4 | 141 | C412_2.7 P132 BN132MA4 | 142 |
| 547 | 126 | 1.6 | 5.3 | 2370 | C362_5.3 S4 M4SB2 | 137 | C362_5.3 P132 BN132SB2 | 138 |
| 548 | 124 | 3.2 | 2.6 | 5330 | C512_2.6 S4 M4LA4 | 145 | C512_2.6 P132 BN132MA4 | 146 |
| 622 | 109 | 2.4 | 4.7 | 2790 | C412_4.7 S4 M4SB2 | 141 | C412_4.7 P132 BN132SB2 | 142 |
| 630 | 109 | 1.8 | 4.6 | 2330 | C362_4.6 S4 M4SB2 | 137 | C362_4.6 P132 BN132SB2 | 138 |
| 690 | 100 | 2.0 | 4.2 | 2290 | C362_4.2 S4 M4SB2 | 137 | C362_4.2 P132 BN132SB2 | 138 |
| 803 | 85 | 3.0 | 3.6 | 2670 | C412_3.6 S4 M4SB2 | 141 | C412_3.6 P132 BN132SB2 | 142 |
| 829 | 83 | 2.4 | 3.5 | 2210 | C362_3.5 S4 M4SB2 | 137 | C362_3.5 P132 BN132SB2 | 138 |
| 906 | 76 | 2.6 | 3.2 | 2170 | C362_3.2 S4 M4SB2 | 137 | C362_3.2 P132 BN132SB2 | 138 |
| 1074 | 64 | 3.1 | 2.7 | 2100 | C362_2.7 S4 M4SB2 | 137 | C362_2.7 P132 BN132SB2 | 138 |







9.2 kW

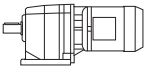



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 7.2 | 11082 | 1.1 | 199.6 | 85000 | C1004_199.6 S4 M4LB4 | 162 | C1004_199.6 P132 BN132MB4 | 163 |
| 7.8 | 10294 | 1.2 | 185.4 | 85000 | C1004_185.4 S4 M4LB4 | 162 | C1004_185.4 P132 BN132MB4 | 163 |
| 9.6 | 8536 | 1.4 | 150.4 | 85000 | C1003_150.4 S4 M4LB4 | 162 | C1003_150.4 P132 BN132MB4 | 163 |
| 10.7 | 7611 | 0.9 | 134.1 | 54900 | C903_134.1 S4 M4LB4 | 159 | C903_134.1 P132 BN132MB4 | 160 |
| 13.5 | 6072 | 1.2 | 107.0 | 54600 | C903_107.0 S4 M4LB4 | 159 | C903_107.0 P132 BN132MB4 | 160 |
| 15.0 | 5461 | 1.3 | 96.2 | 54200 | C903_96.2 S4 M4LB4 | 159 | C903_96.2 P132 BN132MB4 | 160 |
| 15.5 | 5259 | 2.3 | 92.7 | 85000 | C1003_92.7 S4 M4LB4 | 162 | C1003_92.7 P132 BN132MB4 | 163 |
| 17.7 | 4608 | 1.6 | 81.2 | 53300 | C903_81.2 S4 M4LB4 | 159 | C903_81.2 P132 BN132MB4 | 160 |
| 19.3 | 4224 | 1.7 | 74.4 | 52700 | C903_74.4 S4 M4LB4 | 159 | C903_74.4 P132 BN132MB4 | 160 |
| 20.4 | 4001 | 1.0 | 70.5 | 35000 | C803_70.5 S4 M4LB4 | 156 | C803_70.5 P132 BN132MB4 | 157 |
| 24.3 | 3359 | 2.1 | 59.2 | 51100 | C903_59.2 S4 M4LB4 | 159 | C903_59.2 P132 BN132MB4 | 160 |
| 25.1 | 3251 | 1.2 | 57.3 | 35000 | C803_57.3 S4 M4LB4 | 156 | C803_57.3 P132 BN132MB4 | 157 |
| 28.6 | 2854 | 2.5 | 50.3 | 49700 | C903_50.3 S4 M4LB4 | 159 | C903_50.3 P132 BN132MB4 | 160 |
| 30 | 2692 | 1.4 | 47.4 | 34900 | C803_47.4 S4 M4LB4 | 156 | C803_47.4 P132 BN132MB4 | 157 |
| 32 | 2536 | 0.9 | 44.7 | 21100 | C703_44.7 S4 M4LB4 | 153 | C703_44.7 P132 BN132MB4 | 154 |
| 33 | 2468 | 1.5 | 43.5 | 34400 | C803_43.5 S4 M4LB4 | 156 | C803_43.5 P132 BN132MB4 | 157 |
| 35 | 2341 | 1.0 | 41.3 | 21000 | C703_41.3 S4 M4LB4 | 153 | C703_41.3 P132 BN132MB4 | 154 |
| 37 | 2267 | 1.4 | 39.1 | 32300 | C802_39.1 S4 M4LB4 | 156 | C802_39.1 P132 BN132MB4 | 157 |
| 41 | 2034 | 2.7 | 35.1 | 46200 | C902_35.1 S4 M4LB4 | 159 | C902_35.1 P132 BN132MB4 | 160 |
| 41 | 2014 | 1.0 | 34.7 | 19200 | C702_34.7 S4 M4LB4 | 153 | C702_34.7 P132 BN132MB4 | 154 |
| 46 | 1816 | 2.0 | 31.3 | 31100 | C802_31.3 S4 M4LB4 | 156 | C802_31.3 P132 BN132MB4 | 157 |
| 49 | 1706 | 3.5 | 29.4 | 44600 | C902_29.4 S4 M4LB4 | 159 | C902_29.4 P132 BN132MB4 | 160 |
| 52 | 1607 | 1.3 | 27.7 | 18900 | C702_27.7 S4 M4LB4 | 153 | C702_27.7 P132 BN132MB4 | 154 |
| 58 | 1439 | 0.9 | 24.8 | 11800 | C612_24.8 S4 M4LB4 | 149 | C612_24.8 P132 BN132MB4 | 150 |
| 63 | 1325 | 1.6 | 22.9 | 18500 | C702_22.9 S4 M4LB4 | 153 | C702_22.9 P132 BN132MB4 | 154 |
| 64 | 1296 | 1.0 | 22.4 | 11700 | C612_22.4 S4 M4LB4 | 149 | C612_22.4 P132 BN132MB4 | 150 |
| 65 | 1289 | 2.9 | 22.2 | 29200 | C802_22.2 S4 M4LB4 | 156 | C802_22.2 P132 BN132MB4 | 157 |
| 73 | 1136 | 1.2 | 19.6 | 11600 | C612_19.6 S4 M4LB4 | 149 | C612_19.6 P132 BN132MB4 | 150 |
| 75 | 1118 | 1.9 | 19.3 | 18100 | C702_19.3 S4 M4LB4 | 153 | C702_19.3 P132 BN132MB4 | 154 |
| 82 | 1023 | 1.3 | 17.7 | 11400 | C612_17.7 S4 M4LB4 | 149 | C612_17.7 P132 BN132MB4 | 150 |
| 86 | 968 | 2.1 | 16.7 | 17500 | C702_16.7 S4 M4LB4 | 153 | C702_16.7 P132 BN132MB4 | 154 |
| 90 | 923 | 1.5 | 15.9 | 11200 | C612_15.9 S4 M4LB4 | 149 | C612_15.9 P132 BN132MB4 | 150 |
| 94 | 889 | 2.4 | 15.3 | 17500 | C702_15.3 S4 M4LB4 | 153 | C702_15.3 P132 BN132MB4 | 154 |
| 96 | 867 | 0.9 | 15.0 | 7430 | C512_15.0 S4 M4LB4 | 145 | C512_15.0 P132 BN132MB4 | 146 |
| 100 | 832 | 1.6 | 14.3 | 11000 | C612_14.3 S4 M4LB4 | 149 | C612_14.3 P132 BN132MB4 | 150 |
| 102 | 817 | 2.6 | 14.1 | 17000 | C702_14.1 S4 M4LB4 | 153 | C702_14.1 P132 BN132MB4 | 154 |
| 110 | 761 | 1.0 | 13.1 | 7340 | C512_13.1 S4 M4LB4 | 145 | C512_13.1 P132 BN132MB4 | 146 |
| 111 | 755 | 2.8 | 13.0 | 17000 | C702_13.0 S4 M4LB4 | 153 | C702_13.0 P132 BN132MB4 | 154 |
| 119 | 701 | 1.9 | 12.1 | 10700 | C612_12.1 S4 M4LB4 | 149 | C612_12.1 P132 BN132MB4 | 150 |
| 122 | 686 | 1.1 | 11.8 | 7280 | C512_11.8 S4 M4LB4 | 145 | C512_11.8 P132 BN132MB4 | 146 |
| 127 | 658 | 3.2 | 22.9 | 16500 | C702_22.9 S4 M4LA2 | 153 | C702_22.9 P132 BN132M2 | 154 |
| 132 | 631 | 2.1 | 10.9 | 10500 | C612_10.9 S4 M4LB4 | 149 | C612_10.9 P132 BN132MB4 | 150 |
| 147 | 569 | 2.4 | 9.8 | 10300 | C612_9.8 S4 M4LB4 | 149 | C612_9.8 P132 BN132MB4 | 150 |
| 148 | 565 | 1.2 | 9.8 | 7080 | C512_9.8 S4 M4LB4 | 145 | C512_9.8 P132 BN132MB4 | 146 |
| 163 | 513 | 2.6 | 8.8 | 10000 | C612_8.8 S4 M4LB4 | 149 | C612_8.8 P132 BN132MB4 | 150 |
| 164 | 510 | 1.3 | 8.8 | 6990 | C512_8.8 S4 M4LB4 | 145 | C512_8.8 P132 BN132MB4 | 146 |
| 186 | 449 | 1.4 | 7.8 | 6820 | C512_7.8 S4 M4LB4 | 145 | C512_7.8 P132 BN132MB4 | 146 |
| 192 | 434 | 3.1 | 7.5 | 9670 | C612_7.5 S4 M4LB4 | 149 | C612_7.5 P132 BN132MB4 | 150 |
| 206 | 405 | 1.6 | 7.0 | 6710 | C512_7.0 S4 M4LB4 | 145 | C512_7.0 P132 BN132MB4 | 146 |
| 212 | 393 | 0.9 | 6.8 | 2600 | C362_6.8 S4 M4LB4 | 137 | C362_6.8 P132 BN132MB4 | 138 |
| 214 | 391 | 3.5 | 6.7 | 9410 | C612_6.7 S4 M4LB4 | 149 | C612_6.7 P132 BN132MB4 | 150 |

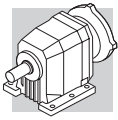


9.2 kW

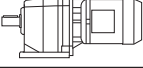



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 226 | 369 | 0.9 | 6.4 | 3100 | C412_6.4 S4 M4LB4 | 141 | C412_6.4 P132 BN132MB4 | 142 |
| 240 | 348 | 1.9 | 6.0 | 8930 | C612_6.0 S4 M4LB4 | 149 | C612_6.0 P132 BN132MB4 | 150 |
| 256 | 326 | 1.3 | 5.6 | 6150 | C512_5.6 S4 M4LB4 | 145 | C512_5.6 P132 BN132MB4 | 146 |
| 260 | 321 | 1.0 | 11.2 | 3110 | C412_11.2 S4 M4LA2 | 141 | C412_11.2 P132 BN132M2 | 142 |
| 309 | 270 | 1.0 | 4.7 | 2620 | C412_4.7 S4 M4LB4 | 141 | C412_4.7 P132 BN132MB4 | 142 |
| 316 | 264 | 2.5 | 4.6 | 8360 | C612_4.6 S4 M4LB4 | 149 | C612_4.6 P132 BN132MB4 | 150 |
| 323 | 258 | 1.7 | 4.5 | 5880 | C512_4.5 S4 M4LB4 | 145 | C512_4.5 P132 BN132MB4 | 146 |
| 336 | 249 | 1.2 | 8.6 | 3090 | C412_8.6 S4 M4LA2 | 141 | C412_8.6 P132 BN132M2 | 142 |
| 374 | 223 | 2.3 | 7.8 | 5870 | C512_7.8 S4 M4LA2 | 145 | C512_7.8 P132 BN132M2 | 146 |
| 399 | 209 | 1.2 | 3.6 | 2670 | C412_3.6 S4 M4LB4 | 141 | C412_3.6 P132 BN132MB4 | 142 |
| 410 | 203 | 1.4 | 7.1 | 3050 | C412_7.1 S4 M4LA2 | 141 | C412_7.1 P132 BN132M2 | 142 |
| 413 | 202 | 1.0 | 3.5 | 2300 | C362_3.5 S4 M4LB4 | 137 | C362_3.5 P132 BN132MB4 | 138 |
| 415 | 201 | 2.5 | 7.0 | 5730 | C512_7.0 S4 M4LA2 | 145 | C512_7.0 P132 BN132M2 | 146 |
| 435 | 192 | 2.2 | 3.3 | 5510 | C512_3.3 S4 M4LB4 | 145 | C512_3.3 P132 BN132MB4 | 146 |
| 453 | 184 | 1.1 | 3.2 | 2300 | C362_3.2 S4 M4LB4 | 137 | C362_3.2 P132 BN132MB4 | 138 |
| 456 | 183 | 1.5 | 6.4 | 3000 | C412_6.4 S4 M4LA2 | 141 | C412_6.4 P132 BN132M2 | 142 |
| 487 | 171 | 1.5 | 6.0 | 2660 | C412_6.0 S4 M4LA2 | 141 | C412_6.0 P132 BN132M2 | 142 |
| 515 | 162 | 2.6 | 5.6 | 5290 | C512_5.6 S4 M4LA2 | 145 | C512_5.6 P132 BN132M2 | 146 |
| 536 | 156 | 1.3 | 2.7 | 2280 | C362_2.7 S4 M4LB4 | 137 | C362_2.7 P132 BN132MB4 | 138 |
| 542 | 154 | 1.6 | 2.7 | 2650 | C412_2.7 S4 M4LB4 | 141 | C412_2.7 P132 BN132MB4 | 142 |
| 548 | 152 | 2.6 | 2.6 | 5210 | C512_2.6 S4 M4LB4 | 145 | C512_2.6 P132 BN132MB4 | 146 |
| 622 | 134 | 1.9 | 4.7 | 2620 | C412_4.7 S4 M4LA2 | 141 | C412_4.7 P132 BN132M2 | 142 |
| 651 | 128 | 3.4 | 4.5 | 4980 | C512_4.5 S4 M4LA2 | 145 | C512_4.5 P132 BN132M2 | 146 |
| 698 | 120 | 1.7 | 4.2 | 2180 | C362_4.2 S4 M4LA2 | 137 | C362_4.2 P132 BN132M2 | 138 |
| 803 | 104 | 2.5 | 3.6 | 2540 | C412_3.6 S4 M4LA2 | 141 | C412_3.6 P132 BN132M2 | 142 |
| 837 | 100 | 2.0 | 3.5 | 2120 | C362_3.5 S4 M4LA2 | 137 | C362_3.5 P132 BN132M2 | 138 |
| 916 | 91 | 2.2 | 3.2 | 2090 | C362_3.2 S4 M4LA2 | 137 | C362_3.2 P132 BN132M2 | 138 |
| 1091 | 77 | 3.2 | 2.7 | 2410 | C412_2.7 S4 M4LA2 | 141 | C412_2.7 P132 BN132M2 | 142 |
| 1091 | 77 | 2.6 | 2.7 | 2020 | C362_2.7 S4 M4LA2 | 137 | C362_2.7 P132 BN132M2 | 138 |

11 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 7.2 | 13251 | 0.9 | 199.6 | 85000 | C1004_199.6 S4 M4LC4 | 162 | C1004_199.6 P160 BN160MR4 | 163 |
| 9.6 | 10206 | 1.2 | 150.4 | 85000 | C1003_150.4 S4 M4LC4 | 162 | C1003_150.4 P160 BN160MR4 | 163 |
| 12.3 | 7920 | 0.9 | 116.7 | 50800 | C903_116.7 S4 M4LC4 | 159 | C903_116.7 P160 BN160MR4 | 160 |
| 12.9 | 7592 | 1.6 | 111.9 | 85000 | C1003_111.9 S4 M4LC4 | 162 | C1003_111.9 P160 BN160MR4 | 163 |
| 15.5 | 6287 | 1.9 | 92.7 | 85000 | C1003_92.7 S4 M4LC4 | 162 | C1003_92.7 P160 BN160MR4 | 163 |
| 16.3 | 5985 | 1.2 | 88.2 | 50700 | C903_88.2 S4 M4LC4 | 159 | C903_88.2 P160 BN160MR4 | 160 |
| 19.3 | 5051 | 1.4 | 74.4 | 50200 | C903_74.4 S4 M4LC4 | 159 | C903_74.4 P160 BN160MR4 | 160 |
| 20.7 | 4710 | 2.5 | 69.4 | 84800 | C1003_69.4 S4 M4LC4 | 162 | C1003_69.4 P160 BN160MR4 | 163 |
| 24.3 | 4016 | 1.8 | 59.2 | 49000 | C903_59.2 S4 M4LC4 | 159 | C903_59.2 P160 BN160MR4 | 160 |
| 25.1 | 3887 | 1.0 | 57.3 | 34200 | C803_57.3 S4 M4LC4 | 156 | C803_57.3 P160 BN160MR4 | 157 |
| 28.6 | 3413 | 2.1 | 50.3 | 48000 | C903_50.3 S4 M4LC4 | 159 | C903_50.3 P160 BN160MR4 | 160 |
| 30 | 3219 | 1.2 | 47.4 | 33500 | C803_47.4 S4 M4LC4 | 156 | C803_47.4 P160 BN160MR4 | 157 |
| 33 | 2951 | 1.3 | 43.5 | 33100 | C803_43.5 S4 M4LC4 | 156 | C803_43.5 P160 BN160MR4 | 157 |
| 37 | 2673 | 2.7 | 39.4 | 46100 | C903_39.4 S4 M4LC4 | 159 | C903_39.4 P160 BN160MR4 | 160 |
| 37 | 2711 | 1.2 | 39.1 | 30900 | C802_39.1 S4 M4LC4 | 156 | C802_39.1 P160 BN160MR4 | 157 |







11 kW

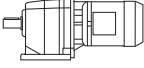



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 41 | 2432 | 2.2 | 35.1 | 45000 | C902_35.1 S4 M4LC4 | 159 | C902_35.1 P160 BN160MR4 | 160 |
| 46 | 2172 | 1.7 | 31.3 | 30000 | C802_31.3 S4 M4LC4 | 156 | C802_31.3 P160 BN160MR4 | 157 |
| 52 | 1921 | 1.1 | 27.7 | 17800 | C702_27.7 S4 M4LC4 | 153 | C702_27.7 P160 BN160MR4 | 154 |
| 55 | 1798 | 2.1 | 25.9 | 29200 | C802_25.9 S4 M4LC4 | 156 | C802_25.9 P160 BN160MR4 | 157 |
| 63 | 1584 | 1.3 | 22.9 | 17600 | C702_22.9 S4 M4LC4 | 153 | C702_22.9 P160 BN160MR4 | 154 |
| 65 | 1542 | 2.4 | 22.2 | 28400 | C802_22.2 S4 M4LC4 | 156 | C802_22.2 P160 BN160MR4 | 157 |
| 70 | 1423 | 2.5 | 20.5 | 28000 | C802_20.5 S4 M4LC4 | 156 | C802_20.5 P160 BN160MR4 | 157 |
| 73 | 1358 | 1.0 | 19.6 | 10800 | C612_19.6 S4 M4LC4 | 149 | C612_19.6 P160 BN160MR4 | 150 |
| 75 | 1337 | 1.6 | 19.3 | 17300 | C702_19.3 S4 M4LC4 | 153 | C702_19.3 P160 BN160MR4 | 154 |
| 80 | 1251 | 3.0 | 18.1 | 27300 | C802_18.1 S4 M4LC4 | 156 | C802_18.1 P160 BN160MR4 | 157 |
| 82 | 1223 | 1.1 | 17.7 | 10700 | C612_17.7 S4 M4LC4 | 149 | C612_17.7 P160 BN160MR4 | 150 |
| 86 | 1158 | 1.8 | 16.7 | 16800 | C702_16.7 S4 M4LC4 | 153 | C702_16.7 P160 BN160MR4 | 154 |
| 86 | 1155 | 3.0 | 16.7 | 26900 | C802_16.7 S4 M4LC4 | 156 | C802_16.7 P160 BN160MR4 | 157 |
| 90 | 1104 | 1.2 | 15.9 | 10700 | C612_15.9 S4 M4LC4 | 149 | C612_15.9 P160 BN160MR4 | 150 |
| 94 | 1063 | 2.0 | 15.3 | 16800 | C702_15.3 S4 M4LC4 | 153 | C702_15.3 P160 BN160MR4 | 154 |
| 100 | 994 | 1.4 | 14.3 | 10500 | C612_14.3 S4 M4LC4 | 149 | C612_14.3 P160 BN160MR4 | 150 |
| 102 | 977 | 2.2 | 14.1 | 16400 | C702_14.1 S4 M4LC4 | 153 | C702_14.1 P160 BN160MR4 | 154 |
| 111 | 903 | 2.3 | 13.0 | 16400 | C702_13.0 S4 M4LC4 | 153 | C702_13.0 P160 BN160MR4 | 154 |
| 119 | 838 | 1.6 | 12.1 | 10300 | C612_12.1 S4 M4LC4 | 149 | C612_12.1 P160 BN160MR4 | 150 |
| 122 | 820 | 0.9 | 11.8 | 6810 | C512_11.8 S4 M4LC4 | 145 | C512_11.8 P160 BN160MR4 | 146 |
| 128 | 777 | 2.8 | 11.2 | 15800 | C702_11.2 S4 M4LC4 | 153 | C702_11.2 P160 BN160MR4 | 154 |
| 132 | 755 | 1.8 | 10.9 | 10100 | C612_10.9 S4 M4LC4 | 149 | C612_10.9 P160 BN160MR4 | 150 |
| 141 | 707 | 3.0 | 10.2 | 15700 | C702_10.2 S4 M4LC4 | 153 | C702_10.2 P160 BN160MR4 | 154 |
| 147 | 680 | 2.0 | 9.8 | 9910 | C612_9.8 S4 M4LC4 | 149 | C612_9.8 P160 BN160MR4 | 150 |
| 148 | 676 | 1.0 | 9.8 | 6690 | C512_9.8 S4 M4LC4 | 145 | C512_9.8 P160 BN160MR4 | 146 |
| 151 | 660 | 3.3 | 9.5 | 15400 | C702_9.5 S4 M4LC4 | 153 | C702_9.5 P160 BN160MR4 | 154 |
| 163 | 613 | 2.2 | 8.8 | 9690 | C612_8.8 S4 M4LC4 | 149 | C612_8.8 P160 BN160MR4 | 150 |
| 164 | 609 | 1.1 | 8.8 | 6640 | C512_8.8 S4 M4LC4 | 145 | C512_8.8 P160 BN160MR4 | 146 |
| 186 | 537 | 1.2 | 7.8 | 6510 | C512_7.8 S4 M4LC4 | 145 | C512_7.8 P160 BN160MR4 | 146 |
| 192 | 519 | 2.6 | 7.5 | 9390 | C612_7.5 S4 M4LC4 | 149 | C612_7.5 P160 BN160MR4 | 150 |
| 206 | 484 | 1.3 | 7.0 | 6430 | C512_7.0 S4 M4LC4 | 145 | C512_7.0 P160 BN160MR4 | 146 |
| 214 | 467 | 2.9 | 6.7 | 9150 | C612_6.7 S4 M4LC4 | 149 | C612_6.7 P160 BN160MR4 | 150 |
| 240 | 416 | 1.6 | 6.0 | 8670 | C612_6.0 S4 M4LC4 | 149 | C612_6.0 P160 BN160MR4 | 150 |
| 256 | 390 | 1.1 | 5.6 | 5880 | C512_5.6 S4 M4LC4 | 145 | C512_5.6 P160 BN160MR4 | 146 |
| 290 | 344 | 1.2 | 3.3 | 5770 | C512_3.3 S5 M5SA6 | 145 | C512_3.3 P160 BN160L6 | 146 |
| 316 | 316 | 2.1 | 4.6 | 8160 | C612_4.6 S4 M4LC4 | 149 | C612_4.6 P160 BN160MR4 | 150 |
| 323 | 309 | 1.4 | 4.5 | 5660 | C512_4.5 S4 M4LC4 | 145 | C512_4.5 P160 BN160MR4 | 146 |
| 338 | 295 | 1.0 | 8.6 | 2850 | C412_8.6 S4 M4LC2 | 141 | | |
| 365 | 273 | 1.5 | 2.6 | 5540 | C512_2.6 S5 M5SA6 | 145 | C512_2.6 P160 BN160L6 | 146 |
| 389 | 256 | 2.6 | 3.7 | 7760 | C612_3.7 S4 M4LC4 | 149 | C612_3.7 P160 BN160MR4 | 150 |
| 399 | 250 | 1.0 | 3.6 | 2390 | C412_3.6 S4 M4LC4 | 141 | | |
| 413 | 242 | 1.2 | 7.1 | 2860 | C412_7.1 S4 M4LC2 | 141 | | |
| 435 | 229 | 1.8 | 3.3 | 5340 | C512_3.3 S4 M4LC4 | 145 | C512_3.3 P160 BN160MR4 | 146 |
| 459 | 217 | 1.3 | 6.4 | 2820 | C412_6.4 S4 M4LC2 | 141 | | |
| 491 | 203 | 1.3 | 6.0 | 2440 | C412_6.0 S4 M4LC2 | 141 | | |
| 511 | 195 | 3.4 | 2.8 | 7240 | C612_2.8 S4 M4LC4 | 149 | C612_2.8 P160 BN160MR4 | 150 |
| 519 | 192 | 2.2 | 5.6 | 5140 | C512_5.6 S4 M4LC2 | 145 | C512_5.6 P160 BN160MA2 | 146 |
| 542 | 184 | 1.3 | 2.7 | 2440 | C412_2.7 S4 M4LC4 | 141 | | |
| 548 | 182 | 2.2 | 2.6 | 5080 | C512_2.6 S4 M4LC4 | 145 | C512_2.6 P160 BN160MR4 | 146 |
| 626 | 159 | 1.6 | 4.7 | 2440 | C412_4.7 S4 M4LC2 | 141 | | |
| 656 | 152 | 2.9 | 4.5 | 4870 | C512_4.5 S4 M4LC2 | 145 | C512_4.5 P160 BN160MA2 | 146 |

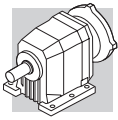


11 kW

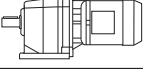



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 809 | 123 | 2.1 | 3.6 | 2400 | C412_3.6 S4 M4LC2 | 141 | | |
| 1098 | 91 | 2.7 | 2.7 | 2300 | C412_2.7 S4 M4LC2 | 141 | | |

15 kW

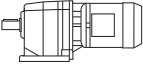



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 10.5 | 12728 | 0.9 | 92.7 | 83900 | | | C1003_92.7 P180 BN180L6 | 163 |
| 12.1 | 10997 | 1.1 | 120.5 | 83800 | C1003_120.5 S5 M5SB4 | 162 | C1003_120.5 P160 BN160L4 | 163 |
| 15.2 | 8782 | 0.8 | 96.2 | 43600 | C903_96.2 S5 M5SB4 | 159 | C903_96.2 P160 BN160L4 | 160 |
| 15.8 | 8456 | 1.4 | 92.7 | 82400 | C1003_92.7 S5 M5SB4 | 162 | C1003_92.7 P160 BN160L4 | 163 |
| 18.0 | 7411 | 1.0 | 81.2 | 44300 | C903_81.2 S5 M5SB4 | 159 | C903_81.2 P160 BN160L4 | 160 |
| 18.4 | 7249 | 1.7 | 79.4 | 81000 | C1003_79.4 S5 M5SB4 | 162 | C1003_79.4 P160 BN160L4 | 163 |
| 24.7 | 5402 | 1.3 | 59.2 | 44400 | C903_59.2 S5 M5SB4 | 159 | C903_59.2 P160 BN160L4 | 160 |
| 25.5 | 5233 | 2.3 | 57.4 | 77400 | C1003_57.4 S5 M5SB4 | 162 | C1003_57.4 P160 BN160L4 | 163 |
| 29.0 | 4590 | 1.5 | 50.3 | 44100 | C903_50.3 S5 M5SB4 | 159 | C903_50.3 P160 BN160L4 | 160 |
| 32 | 4218 | 2.8 | 46.2 | 74500 | C1003_46.2 S5 M5SB4 | 162 | C1003_46.2 P160 BN160L4 | 163 |
| 34 | 3968 | 1.0 | 43.5 | 30300 | C803_43.5 S5 M5SB4 | 156 | C803_43.5 P160 BN160L4 | 157 |
| 37 | 3595 | 2.0 | 39.4 | 43000 | C903_39.4 S5 M5SB4 | 159 | C903_39.4 P160 BN160L4 | 160 |
| 42 | 3272 | 1.7 | 35.1 | 42200 | C902_35.1 S5 M5SB4 | 159 | C902_35.1 P160 BN160L4 | 160 |
| 47 | 2921 | 1.3 | 31.3 | 27500 | C802_31.3 S5 M5SB4 | 156 | C802_31.3 P160 BN160L4 | 157 |
| 54 | 2533 | 2.2 | 27.2 | 40700 | C902_27.2 S5 M5SB4 | 159 | C902_27.2 P160 BN160L4 | 160 |
| 56 | 2419 | 1.5 | 25.9 | 27100 | C802_25.9 S5 M5SB4 | 156 | C802_25.9 P160 BN160L4 | 157 |
| 64 | 2136 | 2.9 | 22.9 | 39500 | C902_22.9 S5 M5SB4 | 159 | C902_22.9 P160 BN160L4 | 160 |
| 66 | 2073 | 1.8 | 22.2 | 26600 | C802_22.2 S5 M5SB4 | 156 | C802_22.2 P160 BN160L4 | 157 |
| 76 | 1798 | 1.2 | 19.3 | 15600 | C702_19.3 S5 M5SB4 | 153 | C702_19.3 P160 BN160L4 | 154 |
| 81 | 1683 | 2.2 | 18.1 | 25800 | C802_18.1 S5 M5SB4 | 156 | C802_18.1 P160 BN160L4 | 157 |
| 92 | 1485 | 0.9 | 15.9 | 9350 | C612_15.9 S5 M5SB4 | 149 | C612_15.9 P160 BN160L4 | 150 |
| 95 | 1429 | 1.5 | 15.3 | 15400 | C702_15.3 S5 M5SB4 | 153 | C702_15.3 P160 BN160L4 | 154 |
| 98 | 1390 | 2.7 | 14.9 | 25000 | C802_14.9 S5 M5SB4 | 156 | C802_14.9 P160 BN160L4 | 157 |
| 102 | 1337 | 1.0 | 14.3 | 9280 | C612_14.3 S5 M5SB4 | 149 | C612_14.3 P160 BN160L4 | 150 |
| 112 | 1215 | 1.7 | 13.0 | 15200 | C702_13.0 S5 M5SB4 | 153 | C702_13.0 P160 BN160L4 | 154 |
| 121 | 1127 | 1.2 | 12.1 | 9270 | C612_12.1 S5 M5SB4 | 149 | C612_12.1 P160 BN160L4 | 150 |
| 121 | 1120 | 3.3 | 12.0 | 24000 | C802_12.0 S5 M5SB4 | 156 | C802_12.0 P160 BN160L4 | 157 |
| 130 | 1045 | 2.1 | 11.2 | 14700 | C702_11.2 S5 M5SB4 | 153 | C702_11.2 P160 BN160L4 | 154 |
| 134 | 1015 | 1.3 | 10.9 | 9140 | C612_10.9 S5 M5SB4 | 149 | C612_10.9 P160 BN160L4 | 150 |
| 149 | 915 | 1.5 | 9.8 | 9090 | C612_9.8 S5 M5SB4 | 149 | C612_9.8 P160 BN160L4 | 150 |
| 153 | 888 | 2.4 | 9.5 | 14400 | C702_9.5 S5 M5SB4 | 153 | C702_9.5 P160 BN160L4 | 154 |
| 165 | 824 | 1.6 | 8.8 | 8930 | C612_8.8 S5 M5SB4 | 149 | C612_8.8 P160 BN160L4 | 150 |
| 182 | 746 | 2.8 | 8.0 | 14200 | | | C702_8.0 P160 BN160L4 | 154 |
| 195 | 698 | 1.9 | 7.5 | 8760 | C612_7.5 S5 M5SB4 | 149 | C612_7.5 P160 BN160L4 | 150 |
| 209 | 651 | 1.0 | 7.0 | 5810 | | | C512_7.0 P160 BN160L4 | 146 |
| 217 | 628 | 2.1 | 6.7 | 8570 | C612_6.7 S5 M5SB4 | 149 | C612_6.7 P160 BN160L4 | 150 |
| 223 | 610 | 1.0 | 13.1 | 5760 | | | C512_13.1 P160 BN160MB2 | 146 |
| 242 | 562 | 2.4 | 12.1 | 8430 | C612_12.1 S5 M5SB2 | 149 | C612_12.1 P160 BN160MB2 | 150 |
| 248 | 550 | 1.1 | 11.8 | 5720 | | | C512_11.8 P160 BN160MB2 | 146 |
| 269 | 506 | 2.7 | 10.9 | 8230 | C612_10.9 S5 M5SB2 | 149 | C612_10.9 P160 BN160MB2 | 150 |
| 298 | 456 | 2.9 | 9.8 | 8090 | C612_9.8 S5 M5SB2 | 149 | C612_9.8 P160 BN160MB2 | 150 |
| 300 | 453 | 1.2 | 9.8 | 5570 | | | C512_9.8 P160 BN160MB2 | 146 |



15 kW

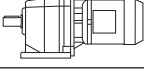



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-----|---------------|---|--|---|---|
| 320 | 425 | 1.6 | 4.6 | 7690 | C612_4.6 S5 M5SB4 | 149 | C612_4.6 P160 BN160L4 | 150 |
| 328 | 415 | 1.0 | 4.5 | 5170 | | | C512_4.5 P160 BN160L4 | 146 |
| 331 | 411 | 3.2 | 8.8 | 7880 | C612_8.8 S5 M5SB2 | 149 | C612_8.8 P160 BN160MB2 | 150 |
| 333 | 408 | 1.3 | 8.8 | 5490 | | | C512_8.8 P160 BN160MB2 | 146 |
| 378 | 360 | 1.4 | 7.8 | 5370 | C612_3.7 S5 M5SB4 | 149 | C512_7.8 P160 BN160MB2 | 146 |
| 395 | 345 | 1.9 | 3.7 | 7370 | | | C612_3.7 P160 BN160L4 | 150 |
| 419 | 325 | 1.5 | 7.0 | 5280 | | | C512_7.0 P160 BN160MB2 | 146 |
| 441 | 308 | 1.4 | 3.3 | 4970 | | | C512_3.3 P160 BN160L4 | 146 |
| 488 | 279 | 2.4 | 6.0 | 7030 | | | C612_6.0 S5 M5SB2 | 149 |
| 518 | 263 | 2.5 | 2.8 | 6940 | C612_2.8 S5 M5SB4 | 149 | C612_2.8 P160 BN160L4 | 150 |
| 520 | 262 | 1.6 | 5.6 | 4840 | | | C512_5.6 P160 BN160MB2 | 146 |
| 555 | 245 | 1.6 | 2.6 | 4780 | C612_4.6 S5 M5SB2 | 149 | C512_2.6 P160 BN160L4 | 146 |
| 643 | 212 | 3.1 | 4.6 | 6580 | | | C612_4.6 P160 BN160MB2 | 150 |
| 658 | 207 | 2.1 | 4.5 | 4630 | | | C512_4.5 P160 BN160MB2 | 146 |
| 886 | 154 | 2.7 | 3.3 | 4330 | | | C512_3.3 P160 BN160MB2 | 146 |
| 1115 | 122 | 3.3 | 2.6 | 4100 | | | C512_2.6 P160 BN160MB2 | 146 |

18.5 kW

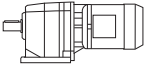



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 13.0 | 12594 | 1.0 | 111.9 | 76600 | C1003_111.9 S5 M5LA4 | 162 | C1003_111.9 P180 BN180M4 | 163 |
| 15.8 | 10429 | 1.2 | 92.7 | 76700 | C1003_92.7 S5 M5LA4 | 162 | C1003_92.7 P180 BN180M4 | 163 |
| 21.0 | 7813 | 1.5 | 69.4 | 75400 | C1003_69.4 S5 M5LA4 | 162 | C1003_69.4 P180 BN180M4 | 163 |
| 22.6 | 7268 | 1.0 | 64.6 | 40300 | C903_64.6 S5 M5LA4 | 159 | C903_64.6 P180 BN180M4 | 160 |
| 26.6 | 6175 | 1.2 | 54.9 | 40700 | C903_54.9 S5 M5LA4 | 159 | C903_54.9 P180 BN180M4 | 160 |
| 27.4 | 5993 | 2.0 | 53.3 | 73100 | C1003_53.3 S5 M5LA4 | 162 | C1003_53.3 P180 BN180M4 | 163 |
| 34 | 4837 | 1.5 | 43.0 | 40600 | C903_43.0 S5 M5LA4 | 159 | C903_43.0 P180 BN180M4 | 160 |
| 34 | 4831 | 2.5 | 42.9 | 70800 | C1003_42.9 S5 M5LA4 | 162 | C1003_42.9 P180 BN180M4 | 163 |
| 42 | 4035 | 1.3 | 35.1 | 39800 | C902_35.1 S5 M5LA4 | 159 | C902_35.1 P180 BN180M4 | 160 |
| 43 | 3860 | 3.0 | 34.3 | 68100 | C1003_34.3 S5 M5LA4 | 162 | C1003_34.3 P180 BN180M4 | 163 |
| 50 | 3384 | 1.7 | 29.4 | 39100 | C902_29.4 S5 M5LA4 | 159 | C902_29.4 P180 BN180M4 | 160 |
| 56 | 2983 | 1.2 | 25.9 | 25300 | C802_25.9 S5 M5LA4 | 156 | C802_25.9 P180 BN180M4 | 157 |
| 66 | 2557 | 1.4 | 22.2 | 25100 | C802_22.2 S5 M5LA4 | 156 | C802_22.2 P180 BN180M4 | 157 |
| 76 | 2217 | 0.9 | 19.3 | 14100 | C702_19.3 S5 M5LA4 | 153 | C702_19.3 P180 BN180M4 | 154 |
| 87 | 1920 | 1.1 | 16.7 | 13800 | C702_16.7 S5 M5LA4 | 153 | C702_16.7 P180 BN180M4 | 154 |
| 88 | 1916 | 1.8 | 16.7 | 24400 | C802_16.7 S5 M5LA4 | 156 | C802_16.7 P180 BN180M4 | 157 |
| 104 | 1620 | 1.3 | 14.1 | 13900 | C702_14.1 S5 M5LA4 | 153 | C702_14.1 P180 BN180M4 | 154 |
| 106 | 1582 | 2.2 | 13.8 | 23700 | C802_13.8 S5 M5LA4 | 156 | C802_13.8 P180 BN180M4 | 157 |
| 121 | 1390 | 1.0 | 12.1 | 8420 | C612_12.1 S5 M5LA4 | 149 | C612_12.1 P180 BN180M4 | 150 |
| 130 | 1289 | 1.7 | 11.2 | 13800 | C702_11.2 S5 M5LA4 | 153 | C702_11.2 P180 BN180M4 | 154 |
| 132 | 1275 | 2.7 | 11.1 | 22900 | C802_11.1 S5 M5LA4 | 156 | C802_11.1 P180 BN180M4 | 157 |
| 134 | 1252 | 1.1 | 10.9 | 8360 | C612_10.9 S5 M5LA4 | 149 | C612_10.9 P180 BN180M4 | 150 |
| 149 | 1129 | 1.2 | 9.8 | 8400 | C612_9.8 S5 M5LA4 | 149 | C612_9.8 P180 BN180M4 | 150 |
| 153 | 1095 | 2.0 | 9.5 | 13600 | C702_9.5 S5 M5LA4 | 153 | C702_9.5 P180 BN180M4 | 154 |
| 165 | 1019 | 3.4 | 8.9 | 21900 | C802_8.9 S5 M5LA4 | 156 | C802_8.9 P180 BN180M4 | 157 |
| 165 | 1016 | 1.3 | 8.8 | 8300 | C612_8.8 S5 M5LA4 | 149 | C612_8.8 P180 BN180M4 | 150 |
| 195 | 860 | 1.6 | 7.5 | 8230 | C612_7.5 S5 M5LA4 | 149 | C612_7.5 P180 BN180M4 | 150 |
| 217 | 775 | 1.7 | 6.7 | 8090 | C612_6.7 S5 M5LA4 | 149 | C612_6.7 P180 BN180M4 | 150 |

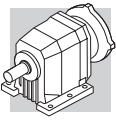


18.5 kW

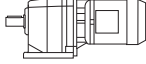



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 233 | 719 | 2.7 | 6.3 | 13100 | | | | |
| 243 | 690 | 1.0 | 6.0 | 7550 | C612_6.0 S5 M5LA4 | 149 | C702_6.3 P180 BN180M4 C612_6.0 P180 BN180M4 | 154 150 |
| 250 | 673 | 2.8 | 5.9 | 12800 | | | C702_5.9 P180 BN180M4 | 154 |
| 269 | 624 | 2.2 | 10.9 | 7840 | C612_10.9 S5 M5SC2 | 149 | C612_10.9 P160BN160L2 | 150 |
| 298 | 562 | 2.4 | 9.8 | 7740 | C612_9.8 S5 M5SC2 | 149 | C612_9.8 P160BN160L2 | 150 |
| 300 | 559 | 1.0 | 9.8 | 5190 | | | C512_9.8 P160BN160L2 | 146 |
| 319 | 526 | 3.2 | 4.6 | 12300 | | | C702_4.6 P180 BN180M4 | 154 |
| 320 | 524 | 1.3 | 4.6 | 7300 | C612_4.6 S5 M5LA4 | 149 | C612_4.6 P180 BN180M4 | 150 |
| 331 | 507 | 2.6 | 8.8 | 7570 | C612_8.8 S5 M5SC2 | 149 | C612_8.8 P160BN160L2 | 150 |
| 333 | 504 | 1.1 | 8.8 | 5160 | | | C512_8.8 P160BN160L2 | 146 |
| 378 | 444 | 1.1 | 7.8 | 5070 | | | C512_7.8 P160BN160L2 | 146 |
| 391 | 429 | 2.9 | 7.5 | 7350 | C612_7.5 S5 M5SC2 | 149 | C612_7.5 P160BN160L2 | 150 |
| 395 | 425 | 1.6 | 3.7 | 7060 | C612_3.7 S5 M5LA4 | 149 | C612_3.7 P180 BN180M4 | 150 |
| 419 | 400 | 1.2 | 7.0 | 5010 | | | C512_7.0 P160BN160L2 | 146 |
| 435 | 386 | 3.1 | 6.7 | 7170 | C612_6.7 S5 M5SC2 | 149 | C612_6.7 P160BN160L2 | 150 |
| 441 | 380 | 1.1 | 3.3 | 4660 | | | C512_3.3 P180 BN180M4 | 146 |
| 488 | 344 | 1.9 | 6.0 | 6780 | C612_6.0 S5 M5SC2 | 149 | C612_6.0 P160BN160L2 | 150 |
| 518 | 324 | 2.1 | 2.8 | 6700 | C612_2.8 S5 M5LA4 | 149 | C612_2.8 P180 BN180M4 | 150 |
| 520 | 323 | 1.3 | 5.6 | 4580 | | | C512_5.6 P160BN160L2 | 146 |
| 555 | 302 | 1.3 | 2.6 | 4540 | | | C512_2.6 P180 BN180M4 | 146 |
| 643 | 261 | 2.5 | 4.6 | 6390 | C612_4.6 S5 M5SC2 | 149 | C612_4.6 P160BN160L2 | 150 |
| 658 | 255 | 1.7 | 4.5 | 4420 | | | C512_4.5 P160BN160L2 | 146 |
| 792 | 212 | 3.1 | 3.7 | 6080 | C612_3.7 S5 M5SC2 | 149 | C612_3.7 P160BN160L2 | 150 |
| 886 | 189 | 2.2 | 3.3 | 4180 | | | C512_3.3 P160BN160L2 | 146 |
| 1115 | 151 | 2.7 | 2.6 | 3980 | | | C512_2.6 P160BN160L2 | 146 |

22 kW

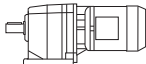



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 14.7 | 13266 | 0.9 | 99.8 | 70600 | | | C1003_99.8 P180 BN180L4 | 163 |
| 18.5 | 10560 | 1.1 | 79.4 | 71200 | | | C1003_79.4 P180 BN180L4 | 163 |
| 24.8 | 7869 | 0.9 | 59.2 | 36700 | | | C903_59.2 P180 BN180L4 | 160 |
| 25.6 | 7623 | 1.6 | 57.4 | 70300 | | | C1003_57.4 P180 BN180L4 | 163 |
| 29.2 | 6686 | 1.1 | 50.3 | 37400 | | | C903_50.3 P180 BN180L4 | 160 |
| 32 | 6144 | 2.0 | 46.2 | 68800 | | | C1003_46.2 P180 BN180L4 | 163 |
| 40 | 4909 | 2.4 | 36.9 | 66700 | | | C1003_36.9 P180 BN180L4 | 163 |
| 42 | 4766 | 1.1 | 35.1 | 37400 | | | C902_35.1 P180 BN180L4 | 160 |
| 50 | 4013 | 2.3 | 29.6 | 64100 | | | C1002_29.6 P180 BN180L4 | 163 |
| 50 | 3997 | 1.5 | 29.4 | 37100 | | | C902_29.4 P180 BN180L4 | 160 |
| 61 | 3252 | 1.1 | 24.0 | 23700 | | | C802_24.0 P180 BN180L4 | 157 |
| 64 | 3112 | 2.0 | 22.9 | 36400 | | | C902_22.9 P180 BN180L4 | 160 |
| 81 | 2451 | 1.5 | 18.1 | 23300 | | | C802_18.1 P180 BN180L4 | 157 |
| 85 | 2350 | 2.8 | 17.3 | 34900 | | | C902_17.3 P180 BN180L4 | 160 |
| 88 | 2268 | 0.9 | 16.7 | 12400 | | | C702_16.7 P180 BN180L4 | 154 |
| 99 | 2025 | 1.8 | 14.9 | 22900 | | | C802_14.9 P180 BN180L4 | 157 |
| 104 | 1914 | 1.1 | 14.1 | 12700 | | | C702_14.1 P180 BN180L4 | 154 |
| 106 | 1881 | 3.2 | 13.9 | 33700 | | | C902_13.9 P180 BN180L4 | 160 |
| 131 | 1522 | 1.4 | 11.2 | 12900 | | | C702_11.2 P180 BN180L4 | 154 |



22 kW

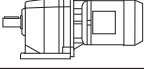



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 133 | 1506 | 2.3 | 11.1 | 22100 | | | C802_11.1 P180 BN180L4 | 157 |
| 135 | 1478 | 0.9 | 10.9 | 7580 | | | C612_10.9 P180 BN180L4 | 150 |
| 150 | 1333 | 1.0 | 9.8 | 7710 | | | C612_9.8 P180 BN180L4 | 150 |
| 154 | 1293 | 1.7 | 9.5 | 12800 | | | C702_9.5 P180 BN180L4 | 154 |
| 166 | 1204 | 2.9 | 8.9 | 21300 | | | C802_8.9 P180 BN180L4 | 157 |
| 166 | 1201 | 1.1 | 8.8 | 7660 | | | C612_8.8 P180 BN180L4 | 150 |
| 184 | 1085 | 1.2 | 15.9 | 7710 | | | C612_15.9 P180 BN180M2 | 150 |
| 196 | 1016 | 1.3 | 7.5 | 7690 | | | C612_7.5 P180 BN180L4 | 150 |
| 197 | 1013 | 2.0 | 7.5 | 12700 | | | C702_7.5 P180 BN180L4 | 154 |
| 209 | 956 | 3.5 | 7.0 | 20400 | | | C802_7.0 P180 BN180L4 | 157 |
| 218 | 915 | 1.5 | 6.7 | 7600 | | | C612_6.7 P180 BN180L4 | 150 |
| 251 | 794 | 2.4 | 5.9 | 12300 | | | C702_5.9 P180 BN180L4 | 154 |
| 269 | 742 | 1.8 | 10.9 | 7460 | | | C612_10.9 P180 BN180M2 | 150 |
| 298 | 669 | 2.0 | 9.8 | 7390 | | | C612_9.8 P180 BN180M2 | 150 |
| 322 | 621 | 2.7 | 4.6 | 11900 | | | C702_4.6 P180 BN180L4 | 154 |
| 323 | 619 | 1.1 | 4.6 | 6910 | | | C612_4.6 P180 BN180L4 | 150 |
| 331 | 602 | 2.2 | 8.8 | 7250 | | | C612_8.8 P180 BN180M2 | 150 |
| 333 | 599 | 0.9 | 8.8 | 4820 | | | C512_8.8 P180 BN180M2 | 146 |
| 378 | 528 | 1.0 | 7.8 | 4770 | | | C512_7.8 P180 BN180M2 | 146 |
| 391 | 510 | 2.4 | 7.5 | 7080 | | | C612_7.5 P180 BN180M2 | 150 |
| 397 | 502 | 1.3 | 3.7 | 6740 | | | C612_3.7 P180 BN180L4 | 150 |
| 419 | 476 | 1.1 | 7.0 | 4740 | | | C512_7.0 P180 BN180M2 | 146 |
| 435 | 459 | 2.6 | 6.7 | 6920 | | | C612_6.7 P180 BN180M2 | 150 |
| 444 | 449 | 0.9 | 3.3 | 4350 | | | C512_3.3 P180 BN180L4 | 146 |
| 488 | 409 | 1.6 | 6.0 | 6530 | | | C612_6.0 P180 BN180M2 | 150 |
| 520 | 384 | 1.1 | 5.6 | 4310 | | | C512_5.6 P180 BN180M2 | 146 |
| 521 | 383 | 1.7 | 2.8 | 6450 | | | C612_2.8 P180 BN180L4 | 150 |
| 559 | 357 | 1.1 | 2.6 | 4290 | | | C512_2.6 P180 BN180L4 | 146 |
| 643 | 310 | 2.1 | 4.6 | 6200 | | | C612_4.6 P180 BN180M2 | 150 |
| 658 | 303 | 1.4 | 4.5 | 4210 | | | C512_4.5 P180 BN180M2 | 146 |
| 792 | 252 | 2.6 | 3.7 | 5930 | | | C612_3.7 P180 BN180M2 | 150 |
| 886 | 225 | 1.9 | 3.3 | 4030 | | | C512_3.3 P180 BN180M2 | 146 |
| 1039 | 192 | 3.5 | 2.8 | 5560 | | | C612_2.8 P180 BN180M2 | 150 |
| 1115 | 179 | 2.2 | 2.6 | 3860 | | | C512_2.6 P180 BN180M2 | 146 |

30 kW

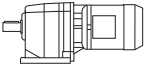



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 21.2 | 12584 | 1.0 | 69.4 | 61300 | | | C1003_69.4 P200 BN200L4 | 163 |
| 25.6 | 10395 | 1.2 | 57.4 | 62200 | | | C1003_57.4 P200 BN200L4 | 163 |
| 32 | 8379 | 1.4 | 46.2 | 62300 | | | C1003_46.2 P200 BN200L4 | 163 |
| 37 | 7142 | 1.0 | 39.4 | 31900 | | | C903_39.4 P200 BN200L4 | 160 |
| 50 | 5472 | 1.7 | 29.6 | 59800 | | | C1002_29.6 P200 BN200L4 | 163 |
| 50 | 5450 | 1.1 | 29.4 | 32600 | | | C902_29.4 P200 BN200L4 | 160 |
| 64 | 4243 | 1.5 | 22.9 | 32900 | | | C902_22.9 P200 BN200L4 | 160 |
| 66 | 4119 | 2.4 | 22.2 | 57700 | | | C1002_22.2 P200 BN200L4 | 163 |
| 79 | 3459 | 1.8 | 18.7 | 32600 | | | C902_18.7 P200 BN200L4 | 160 |
| 79 | 3456 | 3.1 | 18.7 | 56000 | | | C1002_18.7 P200 BN200L4 | 163 |



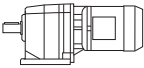



30 kW

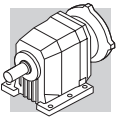
| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 99 | 2761 | 1.3 | 14.9 | 20600 | | | C802_14.9 P200 BN200L4 | 157 |
| 106 | 2566 | 2.4 | 13.9 | 31500 | | | C902_13.9 P200 BN200L4 | 160 |
| 122 | 2225 | 1.7 | 12.0 | 20500 | | | C802_12.0 P200 BN200L4 | 157 |
| 131 | 2079 | 2.7 | 11.2 | 30600 | | | C902_11.2 P200 BN200L4 | 160 |
| 153 | 1778 | 2.1 | 9.6 | 20100 | | | C802_9.6 P200 BN200L4 | 157 |
| 154 | 1763 | 1.2 | 9.5 | 11000 | | | C702_9.5 P200 BN200L4 | 154 |
| 184 | 1482 | 1.4 | 8.0 | 11600 | | | C702_8.0 P200 BN200L4 | 154 |
| 193 | 1412 | 2.4 | 7.6 | 19500 | | | C802_7.6 P200 BN200L4 | 157 |
| 209 | 1303 | 2.6 | 7.0 | 19300 | | | C802_7.0 P200 BN200L4 | 157 |
| 235 | 1158 | 1.7 | 6.3 | 11500 | | | C702_6.3 P200 BN200L4 | 154 |
| 241 | 1131 | 2.8 | 6.1 | 18900 | | | C802_6.1 P200 BN200L4 | 157 |
| 261 | 1044 | 3.0 | 5.6 | 18600 | | | C802_5.6 P200 BN200L4 | 157 |
| 322 | 846 | 2.0 | 4.6 | 11000 | | | C702_4.6 P200 BN200L4 | 154 |

37 kW

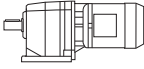



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|--|---|--|--|
| 25.8 | 12734 | 0.9 | 57.4 | 55300 | | | C1003_57.4 P225 BN225S4 | 163 |
| 32 | 10264 | 1.2 | 46.2 | 56600 | | | C1003_46.2 P225 BN225S4 | 163 |
| 40 | 8201 | 1.4 | 36.9 | 57000 | | | C1003_36.9 P225 BN225S4 | 163 |
| 60 | 5631 | 1.2 | 24.8 | 29500 | | | C902_24.8 P225 BN225S4 | 160 |
| 61 | 5467 | 2.0 | 24.1 | 55200 | | | C1002_24.1 P225 BN225S4 | 163 |
| 79 | 4237 | 1.5 | 18.7 | 30100 | | | C902_18.7 P225 BN225S4 | 160 |
| 79 | 4234 | 2.5 | 18.7 | 53600 | | | C1002_18.7 P225 BN225S4 | 163 |
| 89 | 3779 | 0.9 | 16.7 | 18500 | | | C802_16.7 P225 BN225S4 | 157 |
| 107 | 3143 | 1.9 | 13.9 | 29700 | | | C902_13.9 P225 BN225S4 | 160 |
| 108 | 3122 | 1.1 | 13.8 | 18800 | | | C802_13.8 P225 BN225S4 | 157 |
| 123 | 2726 | 1.4 | 12.0 | 18800 | | | C802_12.0 P225 BN225S4 | 157 |
| 132 | 2546 | 2.2 | 11.2 | 29100 | | | C902_11.2 P225 BN225S4 | 160 |
| 154 | 2178 | 1.7 | 9.6 | 18800 | | | C802_9.6 P225 BN225S4 | 157 |
| 164 | 2046 | 2.5 | 9.0 | 28300 | | | C902_9.0 P225 BN225S4 | 160 |
| 194 | 1730 | 2.0 | 7.6 | 18500 | | | C802_7.6 P225 BN225S4 | 157 |
| 202 | 1661 | 2.9 | 7.3 | 27400 | | | C902_7.3 P225 BN225S4 | 160 |
| 242 | 1386 | 2.3 | 6.1 | 18000 | | | C802_6.1 P225 BN225S4 | 157 |
| 264 | 1271 | 3.5 | 5.6 | 26100 | | | C902_5.6 P225 BN225S4 | 160 |
| 286 | 1173 | 3.7 | 5.2 | 25700 | | | C902_5.2 P225 BN225S4 | 160 |

45 kW

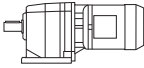



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 32 | 12483 | 1.0 | 46.2 | 50200 | | | C1003_46.2 P225 BN225M4 | 163 |
| 40 | 9974 | 1.2 | 36.9 | 51900 | | | C1003_36.9 P225 BN225M4 | 163 |
| 50 | 8153 | 1.1 | 29.6 | 51900 | | | C1002_29.6 P225 BN225M4 | 163 |
| 65 | 6322 | 1.0 | 22.9 | 26400 | | | C902_22.9 P225 BN225M4 | 160 |
| 67 | 6137 | 1.6 | 22.2 | 51700 | | | C1002_22.2 P225 BN225M4 | 163 |



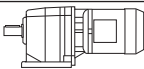



45 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 79 | 5153 | 1.2 | 18.7 | 27200 | | | C902_18.7 P225 BN225M4 | 160 |
| 79 | 5149 | 2.1 | 18.7 | 51000 | | | C1002_18.7 P225 BN225M4 | 163 |
| 107 | 3822 | 1.6 | 13.9 | 27600 | | | C902_13.9 P225 BN225M4 | 160 |
| 108 | 3797 | 0.9 | 13.8 | 16700 | | | C802_13.8 P225 BN225M4 | 157 |
| 123 | 3315 | 1.1 | 12.0 | 17000 | | | C802_12.0 P225 BN225M4 | 157 |
| 132 | 3097 | 1.8 | 11.2 | 27400 | | | C902_11.2 P225 BN225M4 | 160 |
| 154 | 2649 | 1.4 | 9.6 | 17300 | | | C802_9.6 P225 BN225M4 | 157 |
| 164 | 2488 | 2.1 | 9.0 | 26900 | | | C902_9.0 P225 BN225M4 | 160 |
| 194 | 2104 | 1.6 | 7.6 | 17300 | | | C802_7.6 P225 BN225M4 | 157 |
| 202 | 2020 | 2.4 | 7.3 | 26300 | | | C902_7.3 P225 BN225M4 | 160 |
| 262 | 1556 | 2.0 | 5.6 | 17000 | | | C802_5.6 P225 BN225M4 | 157 |
| 264 | 1546 | 2.8 | 5.6 | 25200 | | | C902_5.6 P225 BN225M4 | 160 |
| 279 | 1464 | 2.9 | 5.2 | 25200 | | | C902_5.2 P225 BN225M4 | 160 |

55 kW

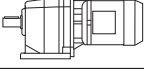



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|--|---|--|--|
| 40 | 12191 | 1.0 | 36.9 | 45400 | | | C1003_36.9 P250 BN250M4 | 163 |
| 50 | 9965 | 0.9 | 29.6 | 46700 | | | C1002_29.6 P250 BN250M4 | 163 |
| 61 | 8126 | 1.3 | 24.1 | 47500 | | | C1002_24.1 P250 BN250M4 | 163 |
| 79 | 6298 | 1.0 | 18.7 | 22200 | | | C902_18.7 P250 BN250M4 | 160 |
| 79 | 6294 | 1.7 | 18.7 | 47700 | | | C1002_18.7 P250 BN250M4 | 163 |
| 107 | 4672 | 1.3 | 13.9 | 24900 | | | C902_13.9 P250 BN250M4 | 160 |
| 110 | 4549 | 2.1 | 13.5 | 46500 | | | C1002_13.5 P250 BN250M4 | 163 |
| 135 | 3686 | 2.4 | 10.9 | 45400 | | | C1002_10.9 P250 BN250M4 | 163 |
| 164 | 3050 | 2.7 | 9.0 | 44100 | | | C1002_9.0 P250 BN250M4 | 163 |
| 164 | 3041 | 1.7 | 9.0 | 25200 | | | C902_9.0 P250 BN250M4 | 160 |
| 202 | 2468 | 2.0 | 7.3 | 24900 | | | C902_7.3 P250 BN250M4 | 160 |
| 209 | 2383 | 3.2 | 7.1 | 42300 | | | C1002_7.1 P250 BN250M4 | 163 |
| 264 | 1889 | 2.3 | 5.6 | 24200 | | | C902_5.6 P250 BN250M4 | 160 |
| 286 | 1744 | 2.5 | 5.2 | 24000 | | | C902_5.2 P250 BN250M4 | 160 |

75 kW

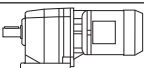



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|----------|----------|---------------|---|--|---|---|
| 62 | 11044 | 1.0 | 24.1 | 38100 | | | C1002_24.1 P280 BN280S4 | 163 |
| 67 | 10194 | 1.0 | 22.2 | 40000 | | | C1002_22.2 P280 BN280S4 | 163 |
| 73 | 9266 | 1.2 | 20.2 | 40500 | | | C1002_20.2 P280 BN280S4 | 163 |
| 80 | 8553 | 1.3 | 18.7 | 41100 | | | C1002_18.7 P280 BN280S4 | 163 |
| 90 | 7552 | 1.3 | 16.5 | 41400 | | | C1002_16.5 P280 BN280S4 | 163 |
| 98 | 6971 | 1.4 | 15.2 | 41800 | | | C1002_15.2 P280 BN280S4 | 163 |
| 110 | 6182 | 1.5 | 13.5 | 41700 | | | C1002_13.5 P280 BN280S4 | 163 |
| 119 | 5707 | 1.6 | 12.5 | 41800 | | | C1002_12.5 P280 BN280S4 | 163 |
| 136 | 5010 | 1.8 | 10.9 | 41500 | | | C1002_10.9 P280 BN280S4 | 163 |
| 147 | 4624 | 1.9 | 10.1 | 41400 | | | C1002_10.1 P280 BN280S4 | 163 |

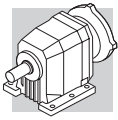


75 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC |  |
|----------------------------|-------------|-----|-----|---------------|---|--|---|---|
| 164 | 4146 | 2.0 | 9.0 | 40900 | | | C1002_9.0 P280 BN280S4 | 163 |
| 178 | 3827 | 2.1 | 8.4 | 40600 | | | C1002_8.4 P280 BN280S4 | 163 |
| 210 | 3238 | 2.4 | 7.1 | 39700 | | | C1002_7.1 P280 BN280S4 | 163 |
| 228 | 2989 | 2.5 | 6.5 | 39300 | | | C1002_6.5 P280 BN280S4 | 163 |
| 278 | 2444 | 2.8 | 5.3 | 38100 | | | C1002_5.3 P280 BN280S4 | 163 |
| 302 | 2256 | 3.0 | 4.9 | 37600 | | | C1002_4.9 P280 BN280S4 | 163 |

90 kW

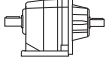

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 73 | 11119 | 1.0 | 20.2 | 30600 | | | C1002_20.2 P280 BN280M4 | 163 |
| 80 | 10264 | 1.0 | 18.7 | 35500 | | | C1002_18.7 P280 BN280M4 | 163 |
| 90 | 9062 | 1.1 | 16.5 | 37100 | | | C1002_16.5 P280 BN280M4 | 163 |
| 98 | 8365 | 1.2 | 15.2 | 37800 | | | C1002_15.2 P280 BN280M4 | 160 |
| 110 | 7419 | 1.3 | 13.5 | 38100 | | | C1002_13.5 P280 BN280M4 | 160 |
| 119 | 6848 | 1.4 | 12.5 | 38500 | | | C1002_12.5 P280 BN280M4 | 163 |
| 136 | 6012 | 1.5 | 10.9 | 38600 | | | C1002_10.9 P280 BN280M4 | 160 |
| 147 | 5549 | 1.6 | 10.1 | 38700 | | | C1002_10.1 P280 BN280M4 | 163 |
| 164 | 4975 | 1.7 | 9.0 | 38500 | | | C1002_9.0 P280 BN280M4 | 160 |
| 178 | 4592 | 1.8 | 8.4 | 38400 | | | C1002_8.4 P280 BN280M4 | 163 |
| 210 | 3886 | 2.0 | 7.1 | 37800 | | | C1002_7.1 P280 BN280M4 | 160 |
| 228 | 3587 | 2.1 | 6.5 | 37600 | | | C1002_6.5 P280 BN280M4 | 157 |
| 278 | 2933 | 2.4 | 5.3 | 36600 | | | C1002_5.3 P280 BN280M4 | 157 |
| 302 | 2707 | 2.5 | 4.9 | 36300 | | | C1002_4.9 P280 BN280M4 | 154 |



26 DONNEES TECHNIQUES REDUCTEURS

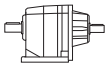

C 12

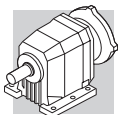
100 Nm

|  | i | n₁ = 2800 min⁻¹ | | | | | n₁ = 1400 min⁻¹ | | | | |  |
|---|------|--|-----------------------------|-----------------------------|----------------------------|----------------------------|--|-----------------------------|-----------------------------|----------------------------|----------------------------|---|
| | | n₂ min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n₂ min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 12 2_2.8 | 2.8 | 1012 | 30 | 3.3 | 750 | 600 | 506 | 37 | 2.1 | 990 | 790 | 128 |
| C 12 2_3.2 | 3.2 | 873 | 32 | 3.1 | 730 | 600 | 436 | 40 | 1.9 | 960 | 790 | |
| C 12 2_3.7 | 3.7 | 767 | 34 | 2.9 | 720 | 610 | 383 | 42 | 1.8 | 960 | 800 | |
| C 12 2_4.3 | 4.3 | 649 | 36 | 2.6 | 710 | 630 | 325 | 45 | 1.6 | 890 | 800 | |
| C 12 2_4.9 | 4.9 | 575 | 38 | 2.4 | 710 | 640 | 288 | 48 | 1.5 | 880 | 800 | |
| C 12 2_5.6 | 5.6 | 500 | 40 | 2.2 | 680 | 650 | 250 | 51 | 1.4 | 840 | 810 | |
| C 12 2_6.2 | 6.2 | 449 | 42 | 2.1 | 650 | 660 | 225 | 53 | 1.3 | 810 | 830 | |
| C 12 2_7.6 | 7.6 | 367 | 45 | 1.8 | 1140 | 1220 | 184 | 56 | 1.1 | 1300 | 1540 | |
| C 12 2_8.8 | 8.8 | 317 | 47 | 1.6 | 1140 | 1280 | 158 | 59 | 1.0 | 1300 | 1620 | |
| C 12 2_10.1 | 10.1 | 278 | 49 | 1.5 | 1150 | 1340 | 139 | 63 | 0.97 | 1300 | 1680 | |
| C 12 2_11.9 | 11.9 | 236 | 53 | 1.4 | 1140 | 1390 | 118 | 67 | 0.87 | 1300 | 1760 | |
| C 12 2_13.4 | 13.4 | 209 | 55 | 1.3 | 1140 | 1460 | 104 | 70 | 0.81 | 1300 | 1840 | |
| C 12 2_15.4 | 15.4 | 182 | 58 | 1.2 | 1130 | 1500 | 91 | 73 | 0.73 | 1300 | 1930 | |
| C 12 2_17.2 | 17.2 | 163 | 60 | 1.1 | 1130 | 1590 | 82 | 76 | 0.68 | 1300 | 2000 | |
| C 12 2_18.4 | 18.4 | 152 | 62 | 1.0 | 1120 | 1620 | 76 | 78 | 0.65 | 1300 | 2000 | |
| C 12 2_20.6 | 20.6 | 136 | 65 | 1.0 | 1110 | 1670 | 68 | 82 | 0.61 | 1300 | 2000 | |
| C 12 2_23.2 | 23.2 | 120 | 67 | 0.89 | 1110 | 1720 | 60 | 85 | 0.56 | 1300 | 2000 | |
| C 12 2_25.4 | 25.4 | 110 | 69 | 0.84 | 1110 | 1800 | 55 | 88 | 0.54 | 1300 | 2000 | |
| C 12 2_29.5 | 29.5 | 95 | 74 | 0.77 | 1100 | 1880 | 47 | 93 | 0.49 | 1300 | 2000 | |
| C 12 2_32.8 | 32.8 | 85 | 75 | 0.71 | 1090 | 1970 | 43 | 90 | 0.42 | 1300 | 2000 | |
| C 12 2_37.0 | 37.0 | 76 | 79 | 0.66 | 1070 | 2000 | 38 | 90 | 0.38 | 1300 | 2000 | |
| C 12 2_42.3 | 42.3 | 66 | 84 | 0.61 | 1060 | 2000 | 33 | 100 | 0.36 | 1300 | 2000 | |
| C 12 2_47.6 | 47.6 | 59 | 85 | 0.55 | 1050 | 2000 | 29.4 | 90 | 0.29 | 1300 | 2000 | |
| C 12 2_55.2 | 55.2 | 51 | 89 | 0.50 | 1030 | 2000 | 25.4 | 90 | 0.25 | 1300 | 2000 | |
| C 12 2_66.2 | 66.2 | 42 | 86 | 0.40 | 1060 | 2000 | 21.2 | 90 | 0.21 | 1300 | 2000 | |



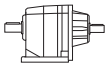

C 12 100 Nm

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 12 2_2.8 | 2.8 | 325 | 43 | 1.5 | 1140 | 910 | 181 | 53 | 1.1 | 1300 | 1080 | 128 |
| C 12 2_3.2 | 3.2 | 281 | 46 | 1.4 | 1100 | 910 | 156 | 57 | 1.0 | 1300 | 1080 | |
| C 12 2_3.7 | 3.7 | 246 | 49 | 1.3 | 1090 | 920 | 137 | 60 | 0.91 | 1300 | 1100 | |
| C 12 2_4.3 | 4.3 | 209 | 52 | 1.2 | 1050 | 920 | 116 | 64 | 0.82 | 1280 | 1100 | |
| C 12 2_4.9 | 4.9 | 185 | 55 | 1.1 | 1050 | 960 | 103 | 67 | 0.76 | 1280 | 1160 | |
| C 12 2_5.6 | 5.6 | 161 | 58 | 1.0 | 1000 | 980 | 89 | 69 | 0.68 | 1300 | 1280 | |
| C 12 2_6.2 | 6.2 | 144 | 61 | 1.0 | 960 | 980 | 80 | 70 | 0.62 | 1300 | 1390 | |
| C 12 2_7.6 | 7.6 | 118 | 65 | 0.85 | 1300 | 1780 | 66 | 79 | 0.57 | 1300 | 2000 | |
| C 12 2_8.8 | 8.8 | 102 | 69 | 0.77 | 1300 | 1830 | 57 | 84 | 0.52 | 1300 | 2000 | |
| C 12 2_10.1 | 10.1 | 89 | 72 | 0.71 | 1300 | 1950 | 50 | 88 | 0.48 | 1300 | 2000 | |
| C 12 2_11.9 | 11.9 | 76 | 77 | 0.64 | 1300 | 2000 | 42 | 89 | 0.41 | 1300 | 2000 | |
| C 12 2_13.4 | 13.4 | 67 | 81 | 0.60 | 1300 | 2000 | 37 | 90 | 0.37 | 1300 | 2000 | |
| C 12 2_15.4 | 15.4 | 58 | 85 | 0.55 | 1300 | 2000 | 32 | 89 | 0.32 | 1300 | 2000 | |
| C 12 2_17.2 | 17.2 | 52 | 88 | 0.51 | 1300 | 2000 | 29.1 | 90 | 0.29 | 1300 | 2000 | |
| C 12 2_18.4 | 18.4 | 49 | 88 | 0.47 | 1300 | 2000 | 27.2 | 89 | 0.27 | 1300 | 2000 | |
| C 12 2_20.6 | 20.6 | 44 | 89 | 0.43 | 1300 | 2000 | 24.2 | 89 | 0.24 | 1300 | 2000 | |
| C 12 2_23.2 | 23.2 | 39 | 89 | 0.38 | 1300 | 2000 | 21.5 | 89 | 0.21 | 1300 | 2000 | |
| C 12 2_25.4 | 25.4 | 35 | 89 | 0.35 | 1300 | 2000 | 19.7 | 89 | 0.19 | 1300 | 2000 | |
| C 12 2_29.5 | 29.5 | 31 | 100 | 0.34 | 1300 | 2000 | 16.9 | 100 | 0.19 | 1300 | 2000 | |
| C 12 2_32.8 | 32.8 | 27.5 | 90 | 0.27 | 1300 | 2000 | 15.3 | 90 | 0.15 | 1300 | 2000 | |
| C 12 2_37.0 | 37.0 | 24.3 | 90 | 0.24 | 1300 | 2000 | 13.5 | 90 | 0.13 | 1300 | 2000 | |
| C 12 2_42.3 | 42.3 | 21.3 | 100 | 0.23 | 1300 | 2000 | 11.8 | 100 | 0.13 | 1300 | 2000 | |
| C 12 2_47.6 | 47.6 | 18.9 | 90 | 0.19 | 1300 | 2000 | 10.5 | 90 | 0.10 | 1300 | 2000 | |
| C 12 2_55.2 | 55.2 | 16.3 | 90 | 0.16 | 1300 | 2000 | 9.1 | 90 | 0.09 | 1300 | 2000 | |
| C 12 2_66.2 | 66.2 | 13.6 | 90 | 0.13 | 1300 | 2000 | 7.6 | 90 | 0.07 | 1300 | 2000 | |



C 22

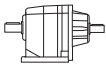

200 Nm

|  | i | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | |  |
|---|-------|-------------------------------|----------------|----------------|---------------|---------------|-------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 22 2_2.7 | 2.7 | 1029 | 65 | 7.4 | — | 1150 | 514 | 80 | 4.5 | — | 1460 | 132 |
| C 22 2_3.3 | 3.3 | 842 | 68 | 6.3 | — | 1230 | 421 | 85 | 3.9 | — | 1560 | |
| C 22 2_3.7 | 3.7 | 755 | 70 | 5.8 | — | 1290 | 378 | 90 | 3.7 | — | 1610 | |
| C 22 2_4.3 | 4.3 | 658 | 75 | 5.4 | — | 1320 | 329 | 94 | 3.4 | — | 1650 | |
| C 22 2_4.8 | 4.8 | 587 | 80 | 5.2 | — | 1370 | 294 | 100 | 3.2 | — | 1730 | |
| C 22 2_5.6 | 5.6 | 501 | 82 | 4.5 | — | 1410 | 250 | 102 | 2.8 | — | 1790 | |
| C 22 2_6.1 | 6.1 | 460 | 85 | 4.3 | — | 1500 | 230 | 105 | 2.7 | — | 1900 | |
| C 22 2_7.1 | 7.1 | 395 | 105 | 4.6 | 1090 | 1570 | 198 | 130 | 2.8 | 1420 | 1990 | |
| C 22 2_8.7 | 8.7 | 324 | 110 | 3.9 | 1130 | 1680 | 162 | 138 | 2.5 | 1430 | 2090 | |
| C 22 2_9.6 | 9.6 | 290 | 115 | 3.7 | 1160 | 1750 | 145 | 145 | 2.3 | 1460 | 2200 | |
| C 22 2_11.1 | 11.1 | 253 | 120 | 3.3 | 1130 | 1820 | 126 | 153 | 2.1 | 1390 | 2270 | |
| C 22 2_12.4 | 12.4 | 226 | 125 | 3.1 | 1160 | 1900 | 113 | 160 | 2.0 | 1420 | 2380 | |
| C 22 2_14.5 | 14.5 | 193 | 133 | 2.8 | 1090 | 1980 | 96 | 168 | 1.8 | 1360 | 2450 | |
| C 22 2_15.8 | 15.8 | 177 | 140 | 2.7 | 1030 | 2030 | 88 | 175 | 1.7 | 1320 | 2570 | |
| C 22 2_18.1 | 18.1 | 154 | 145 | 2.5 | 1000 | 2140 | 77 | 183 | 1.6 | 1250 | 2650 | |
| C 22 2_20.0 | 20.0 | 140 | 150 | 2.3 | 1000 | 2210 | 70 | 190 | 1.5 | 1250 | 2770 | |
| C 22 2_21.5 | 21.5 | 131 | 153 | 2.2 | 970 | 2250 | 65 | 194 | 1.4 | 1190 | 2820 | |
| C 22 2_24.3 | 24.3 | 115 | 160 | 2.0 | 980 | 2350 | 58 | 200 | 1.3 | 1250 | 2970 | |
| C 22 2_27.2 | 27.2 | 103 | 166 | 1.9 | 960 | 2420 | 52 | 200 | 1.1 | 1340 | 3110 | |
| C 22 2_29.6 | 29.6 | 95 | 175 | 1.8 | 850 | 2490 | 47 | 200 | 1.0 | 1350 | 3270 | |
| C 22 2_33.1 | 33.1 | 85 | 178 | 1.7 | 840 | 2590 | 42 | 200 | 0.93 | 1390 | 3400 | |
| C 22 2_36.8 | 36.8 | 76 | 185 | 1.6 | 750 | 2690 | 38 | 200 | 0.84 | 1400 | 3610 | |
| C 22 2_43.3 | 43.3 | 65 | 185 | 1.3 | 830 | 2910 | 32 | 190 | 0.68 | 1610 | 3950 | |
| C 22 2_48.6 | 48.6 | 58 | 150 | 0.95 | 1300 | 3300 | 28.8 | 155 | 0.49 | 1740 | 4400 | |
| C 22 2_54.7 | 54.7 | 51 | 150 | 0.85 | 1320 | 3470 | 25.6 | 155 | 0.44 | 1770 | 4600 | |
| C 22 2_63.3 | 63.3 | 44 | 125 | 0.61 | 1400 | 3860 | 22.1 | 130 | 0.32 | 1820 | 5000 | |
| C 22 3_60.0 | 60.0 | 47 | 180 | 0.93 | 840 | 3400 | 23.3 | 190 | 0.49 | 1230 | 4500 | |
| C 22 3_65.3 | 65.3 | 43 | 200 | 0.94 | 880 | 3440 | 21.4 | 200 | 0.47 | 1270 | 4670 | |
| C 22 3_74.8 | 74.8 | 37 | 200 | 0.83 | 940 | 3600 | 18.7 | 200 | 0.41 | 1270 | 4800 | |
| C 22 3_82.6 | 82.6 | 34 | 200 | 0.75 | 1010 | 3820 | 16.9 | 200 | 0.37 | 1300 | 5000 | |
| C 22 3_88.5 | 88.5 | 32 | 200 | 0.70 | 1040 | 3900 | 15.8 | 200 | 0.35 | 1300 | 5000 | |
| C 22 3_100.2 | 100.2 | 28.0 | 200 | 0.62 | 1090 | 4160 | 14.0 | 200 | 0.31 | 1300 | 5000 | |
| C 22 3_112.0 | 112.0 | 25.0 | 200 | 0.55 | 1130 | 4300 | 12.5 | 200 | 0.28 | 1300 | 5000 | |
| C 22 3_122.2 | 122.2 | 22.9 | 200 | 0.51 | 1160 | 4540 | 11.5 | 200 | 0.25 | 1300 | 5000 | |
| C 22 3_136.5 | 136.5 | 20.5 | 200 | 0.45 | 1180 | 4700 | 10.3 | 200 | 0.23 | 1300 | 5000 | |
| C 22 3_151.7 | 151.7 | 18.5 | 200 | 0.41 | 1220 | 4980 | 9.2 | 200 | 0.20 | 1300 | 5000 | |
| C 22 3_178.5 | 178.5 | 15.7 | 200 | 0.35 | 1260 | 5000 | 7.8 | 200 | 0.17 | 1300 | 5000 | |
| C 22 3_200.7 | 200.7 | 14.0 | 190 | 0.29 | 1280 | 5000 | 7.0 | 190 | 0.15 | 1300 | 5000 | |
| C 22 3_225.8 | 225.8 | 12.4 | 180 | 0.25 | 1300 | 5000 | 6.2 | 185 | 0.13 | 1300 | 5000 | |
| C 22 3_261.0 | 261.0 | 10.7 | 145 | 0.17 | 1300 | 5000 | 5.4 | 155 | 0.09 | 1300 | 5000 | |

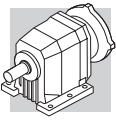
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



C 22 200 Nm

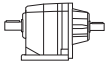

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 22 2_2.7 | 2.7 | 331 | 95 | 3.5 | — | 1670 | 184 | 100 | 2.0 | 400 | 2150 | 132 |
| C 22 2_3.3 | 3.3 | 271 | 100 | 3.0 | — | 1760 | 150 | 103 | 1.7 | 570 | 2300 | |
| C 22 2_3.7 | 3.7 | 243 | 105 | 2.8 | — | 1850 | 135 | 105 | 1.6 | 800 | 2430 | |
| C 22 2_4.3 | 4.3 | 211 | 105 | 2.4 | — | 1980 | 117 | 105 | 1.4 | 940 | 2550 | |
| C 22 2_4.8 | 4.8 | 189 | 105 | 2.2 | 170 | 2090 | 105 | 105 | 1.2 | 1200 | 2710 | |
| C 22 2_5.6 | 5.6 | 161 | 105 | 1.9 | 200 | 2250 | 89 | 112 | 1.1 | 1020 | 2850 | |
| C 22 2_6.1 | 6.1 | 148 | 110 | 1.8 | 200 | 2290 | 82 | 116 | 1.1 | 980 | 2930 | |
| C 22 2_7.1 | 7.1 | 127 | 150 | 2.1 | 1650 | 2310 | 71 | 180 | 1.4 | 2060 | 2820 | |
| C 22 2_8.7 | 8.7 | 104 | 160 | 1.8 | 1650 | 2440 | 58 | 190 | 1.2 | 2100 | 3000 | |
| C 22 2_9.6 | 9.6 | 93 | 170 | 1.7 | 1650 | 2530 | 52 | 200 | 1.1 | 2130 | 3130 | |
| C 22 2_11.1 | 11.1 | 81 | 176 | 1.6 | 1640 | 2650 | 45 | 200 | 0.99 | 2170 | 3270 | |
| C 22 2_12.4 | 12.4 | 73 | 185 | 1.5 | 1650 | 2760 | 40 | 200 | 0.89 | 2200 | 3520 | |
| C 22 2_14.5 | 14.5 | 62 | 193 | 1.3 | 1610 | 2850 | 34 | 200 | 0.76 | 2200 | 3670 | |
| C 22 2_15.8 | 15.8 | 57 | 200 | 1.3 | 1580 | 2990 | 32 | 200 | 0.70 | 2200 | 3920 | |
| C 22 2_18.1 | 18.1 | 50 | 200 | 1.1 | 1650 | 3150 | 27.6 | 200 | 0.61 | 2200 | 4200 | |
| C 22 2_20.0 | 20.0 | 45 | 200 | 0.99 | 1750 | 3340 | 25.0 | 200 | 0.55 | 2200 | 4350 | |
| C 22 2_21.5 | 21.5 | 42 | 200 | 0.92 | 1760 | 3450 | 23.3 | 200 | 0.51 | 2200 | 4550 | |
| C 22 2_24.3 | 24.3 | 37 | 200 | 0.82 | 1900 | 3650 | 20.6 | 200 | 0.45 | 2200 | 4720 | |
| C 22 2_27.2 | 27.2 | 33 | 200 | 0.73 | 1950 | 3820 | 18.4 | 200 | 0.41 | 2200 | 5000 | |
| C 22 2_29.6 | 29.6 | 30 | 200 | 0.67 | 1980 | 3990 | 16.9 | 200 | 0.37 | 2200 | 5000 | |
| C 22 2_33.1 | 33.1 | 27.2 | 200 | 0.60 | 1970 | 4200 | 15.1 | 200 | 0.33 | 2200 | 5000 | |
| C 22 2_36.8 | 36.8 | 24.5 | 200 | 0.54 | 1990 | 4390 | 13.6 | 200 | 0.30 | 2200 | 5000 | |
| C 22 2_43.3 | 43.3 | 20.8 | 190 | 0.44 | 2020 | 4770 | 11.6 | 190 | 0.24 | 2200 | 5000 | |
| C 22 2_48.6 | 48.6 | 18.5 | 160 | 0.33 | 2050 | 5000 | 10.3 | 170 | 0.19 | 2200 | 5000 | |
| C 22 2_54.7 | 54.7 | 16.4 | 160 | 0.29 | 2090 | 5000 | 9.1 | 170 | 0.17 | 2200 | 5000 | |
| C 22 2_63.3 | 63.3 | 14.2 | 135 | 0.21 | 2140 | 5000 | 7.9 | 140 | 0.12 | 2200 | 5000 | |
| C 22 3_60.0 | 60.0 | 15.0 | 190 | 0.31 | 1300 | 5000 | 8.3 | 200 | 0.18 | 1300 | 5000 | |
| C 22 3_65.3 | 65.3 | 13.8 | 200 | 0.31 | 1300 | 5000 | 7.7 | 200 | 0.17 | 1300 | 5000 | |
| C 22 3_74.8 | 74.8 | 12.0 | 200 | 0.27 | 1300 | 5000 | 6.7 | 200 | 0.15 | 1300 | 5000 | |
| C 22 3_82.6 | 82.6 | 10.9 | 200 | 0.25 | 1300 | 5000 | 6.1 | 200 | 0.14 | 1300 | 5000 | |
| C 22 3_88.5 | 88.5 | 10.2 | 200 | 0.22 | 1300 | 5000 | 5.6 | 200 | 0.12 | 1300 | 5000 | |
| C 22 3_100.2 | 100.2 | 9.0 | 200 | 0.20 | 1300 | 5000 | 5.0 | 200 | 0.11 | 1300 | 5000 | |
| C 22 3_112.0 | 112.0 | 8.0 | 200 | 0.18 | 1300 | 5000 | 4.5 | 200 | 0.10 | 1300 | 5000 | |
| C 22 3_122.2 | 122.2 | 7.4 | 200 | 0.17 | 1300 | 5000 | 4.1 | 200 | 0.09 | 1300 | 5000 | |
| C 22 3_136.5 | 136.5 | 6.6 | 200 | 0.15 | 1300 | 5000 | 3.7 | 200 | 0.08 | 1300 | 5000 | |
| C 22 3_151.7 | 151.7 | 5.9 | 200 | 0.13 | 1300 | 5000 | 3.3 | 200 | 0.07 | 1300 | 5000 | |
| C 22 3_178.5 | 178.5 | 5.0 | 200 | 0.11 | 1300 | 5000 | 2.8 | 200 | 0.06 | 1300 | 5000 | |
| C 22 3_200.7 | 200.7 | 4.5 | 195 | 0.10 | 1300 | 5000 | 2.5 | 200 | 0.05 | 1300 | 5000 | |
| C 22 3_225.8 | 225.8 | 4.0 | 195 | 0.09 | 1300 | 5000 | 2.2 | 200 | 0.05 | 1300 | 5000 | |
| C 22 3_261.0 | 261.0 | 3.4 | 160 | 0.06 | 1300 | 5000 | 1.9 | 165 | 0.04 | 1300 | 5000 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



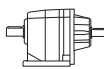

C 32

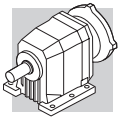
300 Nm

|  | i | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | |  |
|---|-------|-------------------------------|----------------|----------------|---------------|---------------|-------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 32 2_2.9 | 2.9 | 973 | 105 | 11.3 | 670 | 1710 | 486 | 130 | 7.0 | 940 | 2170 | 136 |
| C 32 2_3.4 | 3.4 | 821 | 116 | 10.5 | 480 | 1770 | 411 | 138 | 6.2 | 900 | 2280 | |
| C 32 2_3.7 | 3.7 | 750 | 120 | 9.9 | 560 | 1830 | 375 | 150 | 6.2 | 750 | 2310 | |
| C 32 2_4.5 | 4.5 | 622 | 129 | 8.8 | 450 | 1930 | 311 | 152 | 5.2 | 970 | 2500 | |
| C 32 2_5.0 | 5.0 | 565 | 135 | 8.4 | 470 | 1990 | 283 | 155 | 4.8 | 1100 | 2600 | |
| C 32 2_5.7 | 5.7 | 495 | 141 | 7.7 | 380 | 2080 | 248 | 155 | 4.2 | 1250 | 2760 | |
| C 32 2_6.3 | 6.3 | 447 | 150 | 7.4 | 300 | 2130 | 223 | 155 | 3.8 | 1450 | 2890 | |
| C 32 2_7.2 | 7.2 | 391 | 160 | 6.9 | 1890 | 2370 | 195 | 200 | 4.3 | 2200 | 2990 | |
| C 32 2_8.5 | 8.5 | 330 | 168 | 6.1 | 1900 | 2510 | 165 | 209 | 3.8 | 2200 | 3180 | |
| C 32 2_9.3 | 9.3 | 301 | 175 | 5.8 | 1910 | 2580 | 151 | 220 | 3.7 | 2200 | 3260 | |
| C 32 2_11.2 | 11.2 | 250 | 187 | 5.2 | 1910 | 2740 | 125 | 231 | 3.2 | 2200 | 3480 | |
| C 32 2_12.3 | 12.3 | 227 | 195 | 4.9 | 1910 | 2820 | 114 | 245 | 3.1 | 2200 | 3560 | |
| C 32 2_14.1 | 14.1 | 199 | 205 | 4.5 | 1900 | 2940 | 99 | 251 | 2.8 | 2200 | 3750 | |
| C 32 2_15.6 | 15.6 | 180 | 215 | 4.3 | 1900 | 3030 | 90 | 270 | 2.7 | 2200 | 3820 | |
| C 32 2_18.2 | 18.2 | 154 | 223 | 3.8 | 1900 | 3210 | 77 | 275 | 2.3 | 2200 | 4070 | |
| C 32 2_20.1 | 20.1 | 139 | 235 | 3.6 | 1900 | 3290 | 70 | 295 | 2.3 | 2200 | 4160 | |
| C 32 2_22.9 | 22.9 | 122 | 240 | 3.2 | 1880 | 3470 | 61 | 295 | 2.0 | 2200 | 4400 | |
| C 32 2_25.1 | 25.1 | 111 | 250 | 3.1 | 1890 | 3560 | 56 | 300 | 1.8 | 2200 | 4570 | |
| C 32 2_26.9 | 26.9 | 104 | 255 | 2.9 | 1880 | 3650 | 52 | 300 | 1.7 | 2200 | 4700 | |
| C 32 2_29.8 | 29.8 | 94 | 265 | 2.7 | 1880 | 3770 | 47 | 300 | 1.6 | 2200 | 4920 | |
| C 32 2_33.1 | 33.1 | 85 | 270 | 2.5 | 1880 | 3920 | 42 | 300 | 1.4 | 2200 | 5150 | |
| C 32 2_36.1 | 36.1 | 78 | 280 | 2.4 | 1870 | 4030 | 39 | 300 | 1.3 | 2200 | 5350 | |
| C 32 2_40.7 | 40.7 | 69 | 290 | 2.2 | 1860 | 4200 | 34 | 300 | 1.1 | 2200 | 5500 | |
| C 32 2_45.3 | 45.3 | 62 | 300 | 2.0 | 1860 | 4360 | 31 | 300 | 1.0 | 2200 | 5500 | |
| C 32 2_52.4 | 52.4 | 53 | 300 | 1.8 | 1860 | 4650 | 26.7 | 300 | 0.88 | 2200 | 5500 | |
| C 32 2_59.4 | 59.4 | 47 | 205 | 1.1 | 2020 | 5000 | 23.6 | 215 | 0.56 | 2200 | 5500 | |
| C 32 2_66.8 | 66.8 | 42 | 205 | 0.95 | 2020 | 5500 | 21.0 | 215 | 0.50 | 2200 | 5500 | |
| C 32 3_74.7 | 74.7 | 37 | 280 | 1.2 | 750 | 5500 | 18.7 | 290 | 0.60 | 1170 | 5500 | |
| C 32 3_82.6 | 82.6 | 34 | 300 | 1.1 | 820 | 5500 | 17.0 | 300 | 0.56 | 1240 | 5500 | |
| C 32 3_94.2 | 94.2 | 29.7 | 300 | 0.98 | 900 | 5500 | 14.9 | 300 | 0.49 | 1270 | 5500 | |
| C 32 3_103.3 | 103.3 | 27.1 | 300 | 0.90 | 980 | 5500 | 13.6 | 300 | 0.45 | 1300 | 5500 | |
| C 32 3_110.6 | 110.6 | 25.3 | 300 | 0.84 | 1000 | 5500 | 12.7 | 300 | 0.42 | 1300 | 5500 | |
| C 32 3_122.4 | 122.4 | 22.9 | 300 | 0.76 | 1060 | 5500 | 11.4 | 300 | 0.38 | 1300 | 5500 | |
| C 32 3_136.0 | 136.0 | 20.6 | 300 | 0.68 | 1110 | 5500 | 10.3 | 300 | 0.34 | 1300 | 5500 | |
| C 32 3_148.4 | 148.4 | 18.9 | 300 | 0.62 | 1130 | 5500 | 9.4 | 300 | 0.31 | 1300 | 5500 | |
| C 32 3_167.4 | 167.4 | 16.7 | 300 | 0.55 | 1180 | 5500 | 8.4 | 300 | 0.28 | 1300 | 5500 | |
| C 32 3_186.0 | 186.0 | 15.1 | 300 | 0.50 | 1200 | 5500 | 7.5 | 300 | 0.25 | 1300 | 5500 | |
| C 32 3_215.6 | 215.6 | 13.0 | 300 | 0.43 | 1240 | 5500 | 6.5 | 300 | 0.21 | 1300 | 5500 | |
| C 32 3_244.2 | 244.2 | 11.5 | 240 | 0.30 | 1280 | 5500 | 5.7 | 255 | 0.16 | 1300 | 5500 | |
| C 32 3_274.7 | 274.7 | 10.2 | 240 | 0.27 | 1300 | 5500 | 5.1 | 255 | 0.14 | 1300 | 5500 | |



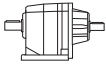

C 32 300 Nm

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 32 2_2.9 | 2.9 | 313 | 150 | 5.2 | 1120 | 2510 | 174 | 155 | 3.0 | 2200 | 3220 | 136 |
| C 32 2_3.4 | 3.4 | 264 | 152 | 4.4 | 1390 | 2690 | 147 | 167 | 2.7 | 2200 | 3390 | |
| C 32 2_3.7 | 3.7 | 241 | 155 | 4.1 | 1570 | 2790 | 134 | 175 | 2.6 | 2200 | 3480 | |
| C 32 2_4.5 | 4.5 | 200 | 158 | 3.5 | 1750 | 3010 | 111 | 188 | 2.3 | 2200 | 3690 | |
| C 32 2_5.0 | 5.0 | 182 | 162 | 3.2 | 1870 | 3120 | 101 | 198 | 2.2 | 2200 | 3790 | |
| C 32 2_5.7 | 5.7 | 159 | 171 | 3.0 | 1730 | 3250 | 88 | 198 | 1.9 | 2200 | 4010 | |
| C 32 2_6.3 | 6.3 | 144 | 178 | 2.8 | 1730 | 3350 | 80 | 200 | 1.8 | 2200 | 4180 | |
| C 32 2_7.2 | 7.2 | 126 | 235 | 3.3 | 2200 | 3450 | 70 | 285 | 2.2 | 2200 | 4200 | |
| C 32 2_8.5 | 8.5 | 106 | 246 | 2.9 | 2200 | 3660 | 59 | 288 | 1.9 | 2200 | 4520 | |
| C 32 2_9.3 | 9.3 | 97 | 260 | 2.8 | 2200 | 3750 | 54 | 300 | 1.8 | 2200 | 4640 | |
| C 32 2_11.2 | 11.2 | 80 | 272 | 2.4 | 2200 | 4010 | 45 | 300 | 1.5 | 2200 | 5030 | |
| C 32 2_12.3 | 12.3 | 73 | 285 | 2.3 | 2200 | 4120 | 41 | 300 | 1.3 | 2200 | 5250 | |
| C 32 2_14.1 | 14.1 | 64 | 290 | 2.0 | 2200 | 4340 | 36 | 300 | 1.2 | 2200 | 5500 | |
| C 32 2_15.6 | 15.6 | 58 | 300 | 1.9 | 2200 | 4500 | 32 | 300 | 1.1 | 2200 | 5500 | |
| C 32 2_18.2 | 18.2 | 50 | 300 | 1.6 | 2200 | 4810 | 27.5 | 300 | 0.91 | 2200 | 5500 | |
| C 32 2_20.1 | 20.1 | 45 | 300 | 1.5 | 2200 | 5030 | 24.9 | 300 | 0.82 | 2200 | 5500 | |
| C 32 2_22.9 | 22.9 | 39 | 300 | 1.3 | 2200 | 5300 | 21.8 | 300 | 0.72 | 2200 | 5500 | |
| C 32 2_25.1 | 25.1 | 36 | 300 | 1.2 | 2200 | 5500 | 19.9 | 300 | 0.66 | 2200 | 5500 | |
| C 32 2_26.9 | 26.9 | 33 | 300 | 1.1 | 2200 | 5500 | 18.6 | 300 | 0.61 | 2200 | 5500 | |
| C 32 2_29.8 | 29.8 | 30 | 300 | 1.0 | 2200 | 5500 | 16.8 | 300 | 0.56 | 2200 | 5500 | |
| C 32 2_33.1 | 33.1 | 27.2 | 300 | 0.90 | 2200 | 5500 | 15.1 | 300 | 0.50 | 2200 | 5500 | |
| C 32 2_36.1 | 36.1 | 24.9 | 300 | 0.82 | 2200 | 5500 | 13.9 | 300 | 0.46 | 2200 | 5500 | |
| C 32 2_40.7 | 40.7 | 22.1 | 300 | 0.73 | 2200 | 5500 | 12.3 | 300 | 0.41 | 2200 | 5500 | |
| C 32 2_45.3 | 45.3 | 19.9 | 300 | 0.66 | 2200 | 5500 | 11.0 | 300 | 0.37 | 2200 | 5500 | |
| C 32 2_52.4 | 52.4 | 17.2 | 300 | 0.57 | 2200 | 5500 | 9.5 | 300 | 0.32 | 2200 | 5500 | |
| C 32 2_59.4 | 59.4 | 15.2 | 220 | 0.37 | 2200 | 5500 | 8.4 | 230 | 0.21 | 2200 | 5500 | |
| C 32 2_66.8 | 66.8 | 13.5 | 220 | 0.33 | 2200 | 5500 | 7.5 | 230 | 0.19 | 2200 | 5500 | |
| C 32 3_74.7 | 74.7 | 12.0 | 290 | 0.38 | 1300 | 5500 | 6.7 | 300 | 0.22 | 1300 | 5500 | |
| C 32 3_82.6 | 82.6 | 10.9 | 300 | 0.36 | 1300 | 5500 | 6.1 | 300 | 0.20 | 1300 | 5500 | |
| C 32 3_94.2 | 94.2 | 9.6 | 300 | 0.32 | 1300 | 5500 | 5.3 | 300 | 0.18 | 1300 | 5500 | |
| C 32 3_103.3 | 103.3 | 8.7 | 300 | 0.29 | 1300 | 5500 | 4.8 | 300 | 0.16 | 1300 | 5500 | |
| C 32 3_110.6 | 110.6 | 8.1 | 300 | 0.27 | 1300 | 5500 | 4.5 | 300 | 0.15 | 1300 | 5500 | |
| C 32 3_122.4 | 122.4 | 7.4 | 300 | 0.24 | 1300 | 5500 | 4.1 | 300 | 0.14 | 1300 | 5500 | |
| C 32 3_136.0 | 136.0 | 6.6 | 300 | 0.22 | 1300 | 5500 | 3.7 | 300 | 0.12 | 1300 | 5500 | |
| C 32 3_148.4 | 148.4 | 6.1 | 300 | 0.20 | 1300 | 5500 | 3.4 | 300 | 0.11 | 1300 | 5500 | |
| C 32 3_167.4 | 167.4 | 5.4 | 300 | 0.18 | 1300 | 5500 | 3.0 | 300 | 0.10 | 1300 | 5500 | |
| C 32 3_186.0 | 186.0 | 4.8 | 300 | 0.16 | 1300 | 5500 | 2.7 | 300 | 0.09 | 1300 | 5500 | |
| C 32 3_215.6 | 215.6 | 4.2 | 300 | 0.14 | 1300 | 5500 | 2.3 | 300 | 0.08 | 1300 | 5500 | |
| C 32 3_244.2 | 244.2 | 3.7 | 260 | 0.11 | 1300 | 5500 | 2.0 | 275 | 0.06 | 1300 | 5500 | |
| C 32 3_274.7 | 274.7 | 3.3 | 260 | 0.09 | 1300 | 5500 | 1.8 | 275 | 0.06 | 1300 | 5500 | |



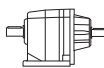

C 36

450 Nm

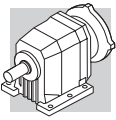
|  | i | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | |  |
|---|-------|-------------------------------|----------------|----------------|---------------|---------------|-------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 36 2_2.7 | 2.7 | 1042 | 140 | 16.1 | 670 | 1750 | 521 | 170 | 9.8 | 1150 | 2240 | 140 |
| C 36 2_3.2 | 3.2 | 880 | 145 | 14.1 | 790 | 1870 | 440 | 177 | 8.6 | 1240 | 2380 | |
| C 36 2_3.5 | 3.5 | 803 | 150 | 13.3 | 910 | 1920 | 402 | 185 | 8.2 | 1320 | 2440 | |
| C 36 2_4.2 | 4.2 | 667 | 157 | 11.5 | 920 | 2050 | 333 | 192 | 7.1 | 1410 | 2620 | |
| C 36 2_4.6 | 4.6 | 606 | 165 | 11.0 | 920 | 2110 | 303 | 200 | 6.7 | 1470 | 2700 | |
| C 36 2_5.3 | 5.3 | 530 | 167 | 9.8 | 990 | 2230 | 265 | 200 | 5.8 | 1650 | 2870 | |
| C 36 2_5.8 | 5.8 | 479 | 170 | 9.0 | 1160 | 2330 | 239 | 200 | 5.3 | 1990 | 3020 | |
| C 36 2_6.8 | 6.8 | 413 | 285 | 13.0 | 1750 | 2130 | 206 | 355 | 8.1 | 2220 | 2710 | |
| C 36 2_8.0 | 8.0 | 349 | 297 | 11.4 | 1770 | 2270 | 174 | 365 | 7.0 | 2250 | 2910 | |
| C 36 2_8.8 | 8.8 | 318 | 310 | 10.9 | 1780 | 2330 | 159 | 380 | 6.7 | 2270 | 3000 | |
| C 36 2_10.6 | 10.6 | 264 | 325 | 9.5 | 1790 | 2500 | 132 | 380 | 5.5 | 2320 | 3290 | |
| C 36 2_11.7 | 11.7 | 240 | 340 | 9.0 | 1790 | 2560 | 120 | 380 | 5.0 | 2370 | 3460 | |
| C 36 2_13.3 | 13.3 | 210 | 350 | 8.1 | 1800 | 2700 | 105 | 380 | 4.4 | 2400 | 3670 | |
| C 36 2_14.8 | 14.8 | 190 | 360 | 7.5 | 1800 | 2810 | 95 | 380 | 4.0 | 2440 | 3890 | |
| C 36 2_17.2 | 17.2 | 163 | 370 | 6.6 | 1810 | 3000 | 81 | 380 | 3.4 | 2460 | 4200 | |
| C 36 2_19.0 | 19.0 | 147 | 380 | 6.2 | 1820 | 3110 | 74 | 380 | 3.1 | 2500 | 4400 | |
| C 36 3_22.1 | 22.1 | 127 | 340 | 4.7 | 2300 | 3570 | 63 | 430 | 3.0 | 2900 | 4490 | |
| C 36 3_26.2 | 26.2 | 107 | 355 | 4.2 | 2300 | 3790 | 53 | 440 | 2.6 | 2910 | 4810 | |
| C 36 3_28.7 | 28.7 | 98 | 385 | 4.1 | 2300 | 3820 | 49 | 450 | 2.4 | 2930 | 4980 | |
| C 36 3_34.6 | 34.6 | 81 | 400 | 3.6 | 2300 | 4100 | 40 | 450 | 2.0 | 2950 | 5420 | |
| C 36 3_38.1 | 38.1 | 74 | 435 | 3.5 | 2300 | 4140 | 37 | 450 | 1.8 | 2970 | 5690 | |
| C 36 3_43.5 | 43.5 | 64 | 440 | 3.1 | 2300 | 4450 | 32 | 450 | 1.6 | 2980 | 6050 | |
| C 36 3_48.2 | 48.2 | 58 | 450 | 2.9 | 2310 | 4580 | 29.1 | 450 | 1.4 | 2990 | 6330 | |
| C 36 3_56.2 | 56.2 | 50 | 450 | 2.5 | 2320 | 4970 | 24.9 | 450 | 1.2 | 2990 | 6500 | |
| C 36 3_62.0 | 62.0 | 45 | 450 | 2.2 | 2330 | 5170 | 22.6 | 450 | 1.1 | 3000 | 6500 | |
| C 36 3_70.8 | 70.8 | 40 | 450 | 2.0 | 2340 | 5520 | 19.8 | 450 | 0.98 | 3000 | 6500 | |
| C 36 3_77.6 | 77.6 | 36 | 450 | 1.8 | 2350 | 5740 | 18.0 | 450 | 0.90 | 3000 | 6500 | |
| C 36 3_83.1 | 83.1 | 34 | 450 | 1.7 | 2350 | 5930 | 16.8 | 450 | 0.84 | 3000 | 6500 | |
| C 36 3_91.9 | 91.9 | 30 | 450 | 1.5 | 2360 | 6200 | 15.2 | 450 | 0.76 | 3000 | 6500 | |
| C 36 3_102.2 | 102.2 | 27.4 | 450 | 1.4 | 2360 | 6400 | 13.7 | 450 | 0.68 | 3000 | 6500 | |
| C 36 3_111.5 | 111.5 | 25.1 | 450 | 1.2 | 2360 | 6500 | 12.6 | 450 | 0.62 | 3000 | 6500 | |
| C 36 3_125.8 | 125.8 | 22.3 | 450 | 1.1 | 2370 | 6500 | 11.1 | 450 | 0.55 | 3000 | 6500 | |
| C 36 3_139.8 | 139.8 | 20.0 | 450 | 0.99 | 2370 | 6500 | 10.0 | 450 | 0.50 | 3000 | 6500 | |
| C 36 3_162.0 | 162.0 | 17.3 | 450 | 0.86 | 2380 | 6500 | 8.6 | 450 | 0.43 | 3000 | 6500 | |
| C 36 3_183.5 | 183.5 | 15.3 | 450 | 0.76 | 2380 | 6500 | 7.6 | 450 | 0.38 | 3000 | 6500 | |
| C 36 3_206.4 | 206.4 | 13.6 | 450 | 0.67 | 2380 | 6500 | 6.8 | 450 | 0.34 | 3000 | 6500 | |
| C 36 4_230.9 | 230.9 | 12.1 | 450 | 0.60 | 1150 | 6500 | 6.1 | 450 | 0.30 | 1300 | 6500 | |
| C 36 4_255.0 | 255.0 | 11.0 | 450 | 0.54 | 1190 | 6500 | 5.5 | 450 | 0.27 | 1300 | 6500 | |
| C 36 4_290.9 | 290.9 | 9.6 | 450 | 0.48 | 1210 | 6500 | 4.8 | 450 | 0.24 | 1300 | 6500 | |
| C 36 4_318.9 | 318.9 | 8.8 | 450 | 0.44 | 1230 | 6500 | 4.4 | 450 | 0.22 | 1300 | 6500 | |
| C 36 4_341.7 | 341.7 | 8.2 | 450 | 0.41 | 1240 | 6500 | 4.1 | 450 | 0.20 | 1300 | 6500 | |
| C 36 4_377.9 | 377.9 | 7.4 | 450 | 0.37 | 1260 | 6500 | 3.7 | 450 | 0.18 | 1300 | 6500 | |
| C 36 4_420.2 | 420.2 | 6.7 | 450 | 0.33 | 1270 | 6500 | 3.3 | 450 | 0.17 | 1300 | 6500 | |
| C 36 4_458.4 | 458.4 | 6.1 | 450 | 0.30 | 1280 | 6500 | 3.1 | 450 | 0.15 | 1300 | 6500 | |
| C 36 4_517.2 | 517.2 | 5.4 | 450 | 0.27 | 1300 | 6500 | 2.7 | 450 | 0.13 | 1300 | 6500 | |
| C 36 4_574.7 | 574.7 | 4.9 | 450 | 0.24 | 1300 | 6500 | 2.4 | 450 | 0.12 | 1300 | 6500 | |
| C 36 4_665.9 | 665.9 | 4.2 | 450 | 0.21 | 1300 | 6500 | 2.1 | 450 | 0.10 | 1300 | 6500 | |
| C 36 4_754.2 | 754.2 | 3.7 | 450 | 0.18 | 1300 | 6500 | 1.9 | 450 | 0.09 | 1300 | 6500 | |
| C 36 4_848.5 | 848.5 | 3.3 | 450 | 0.16 | 1300 | 6500 | 1.6 | 450 | 0.08 | 1300 | 6500 | |



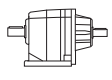

C 36 450 Nm

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 36 2_2.7 | 2.7 | 335 | 190 | 7.0 | 1670 | 2640 | 186 | 200 | 4.1 | 3000 | 3390 | |
| C 36 2_3.2 | 3.2 | 283 | 190 | 5.9 | 2080 | 2790 | 157 | 200 | 3.5 | 3000 | 3650 | |
| C 36 2_3.5 | 3.5 | 258 | 200 | 5.7 | 2160 | 2920 | 143 | 200 | 3.2 | 3000 | 3810 | |
| C 36 2_4.2 | 4.2 | 214 | 200 | 4.7 | 2410 | 3170 | 119 | 200 | 2.6 | 3000 | 4100 | |
| C 36 2_4.6 | 4.6 | 195 | 200 | 4.3 | 2590 | 3320 | 108 | 200 | 2.4 | 3000 | 4300 | |
| C 36 2_5.3 | 5.3 | 171 | 200 | 3.8 | 2630 | 3500 | 95 | 200 | 2.1 | 3000 | 4520 | |
| C 36 2_5.8 | 5.8 | 154 | 200 | 3.4 | 2680 | 3690 | 86 | 200 | 1.9 | 3000 | 4740 | |
| C 36 2_6.8 | 6.8 | 133 | 380 | 5.6 | 2660 | 3290 | 74 | 380 | 3.1 | 3000 | 4400 | |
| C 36 2_8.0 | 8.0 | 112 | 380 | 4.7 | 2720 | 3580 | 62 | 380 | 2.6 | 3000 | 4750 | |
| C 36 2_8.8 | 8.8 | 102 | 380 | 4.3 | 2790 | 3750 | 57 | 380 | 2.4 | 3000 | 4960 | |
| C 36 2_10.6 | 10.6 | 85 | 380 | 3.6 | 2850 | 4110 | 47 | 380 | 2.0 | 3000 | 5360 | |
| C 36 2_11.7 | 11.7 | 77 | 380 | 3.2 | 2900 | 4300 | 43 | 380 | 1.8 | 3000 | 5630 | |
| C 36 2_13.3 | 13.3 | 68 | 380 | 2.8 | 2930 | 4590 | 38 | 380 | 1.6 | 3000 | 5930 | |
| C 36 2_14.8 | 14.8 | 61 | 380 | 2.6 | 2970 | 4800 | 34 | 380 | 1.4 | 3000 | 6240 | |
| C 36 2_17.2 | 17.2 | 52 | 380 | 2.2 | 2980 | 5100 | 29.1 | 380 | 1.2 | 3000 | 6330 | |
| C 36 2_19.0 | 19.0 | 47 | 380 | 2.0 | 3000 | 5390 | 26.3 | 380 | 1.1 | 3000 | 6500 | |
| C 36 3_22.1 | 22.1 | 41 | 450 | 2.0 | 3000 | 5430 | 22.6 | 450 | 1.1 | 3000 | 6500 | |
| C 36 3_26.2 | 26.2 | 34 | 450 | 1.7 | 3000 | 5850 | 19.1 | 450 | 0.95 | 3000 | 6500 | |
| C 36 3_28.7 | 28.7 | 31 | 450 | 1.6 | 3000 | 6120 | 17.4 | 450 | 0.86 | 3000 | 6500 | |
| C 36 3_34.6 | 34.6 | 26.0 | 450 | 1.3 | 3000 | 6500 | 14.5 | 450 | 0.72 | 3000 | 6500 | |
| C 36 3_38.1 | 38.1 | 23.6 | 450 | 1.2 | 3000 | 6500 | 13.1 | 450 | 0.65 | 3000 | 6500 | |
| C 36 3_43.5 | 43.5 | 20.7 | 450 | 1.0 | 3000 | 6500 | 11.5 | 450 | 0.57 | 3000 | 6500 | |
| C 36 3_48.2 | 48.2 | 18.7 | 450 | 0.93 | 3000 | 6500 | 10.4 | 450 | 0.52 | 3000 | 6500 | |
| C 36 3_56.2 | 56.2 | 16.0 | 450 | 0.79 | 3000 | 6500 | 8.9 | 450 | 0.44 | 3000 | 6500 | |
| C 36 3_62.0 | 62.0 | 14.5 | 450 | 0.72 | 3000 | 6500 | 8.1 | 450 | 0.40 | 3000 | 6500 | |
| C 36 3_70.8 | 70.8 | 12.7 | 450 | 0.63 | 3000 | 6500 | 7.1 | 450 | 0.35 | 3000 | 6500 | |
| C 36 3_77.6 | 77.6 | 11.6 | 450 | 0.58 | 3000 | 6500 | 6.4 | 450 | 0.32 | 3000 | 6500 | |
| C 36 3_83.1 | 83.1 | 10.8 | 450 | 0.54 | 3000 | 6500 | 6.0 | 450 | 0.30 | 3000 | 6500 | |
| C 36 3_91.9 | 91.9 | 9.8 | 450 | 0.49 | 3000 | 6500 | 5.4 | 450 | 0.27 | 3000 | 6500 | |
| C 36 3_102.2 | 102.2 | 8.8 | 450 | 0.44 | 3000 | 6500 | 4.9 | 450 | 0.24 | 3000 | 6500 | |
| C 36 3_111.5 | 111.5 | 8.1 | 450 | 0.40 | 3000 | 6500 | 4.5 | 450 | 0.22 | 3000 | 6500 | |
| C 36 3_125.8 | 125.8 | 7.2 | 450 | 0.35 | 3000 | 6500 | 4.0 | 450 | 0.20 | 3000 | 6500 | |
| C 36 3_139.8 | 139.8 | 6.4 | 450 | 0.32 | 3000 | 6500 | 3.6 | 450 | 0.18 | 3000 | 6500 | |
| C 36 3_162.0 | 162.0 | 5.6 | 450 | 0.28 | 3000 | 6500 | 3.1 | 450 | 0.15 | 3000 | 6500 | |
| C 36 3_183.5 | 183.5 | 4.9 | 450 | 0.24 | 3000 | 6500 | 2.7 | 450 | 0.14 | 3000 | 6500 | |
| C 36 3_206.4 | 206.4 | 4.4 | 450 | 0.22 | 3000 | 6500 | 2.4 | 450 | 0.12 | 3000 | 6500 | |
| C 36 4_230.9 | 230.9 | 3.9 | 450 | 0.19 | 1300 | 6500 | 2.2 | 450 | 0.11 | 1300 | 6500 | |
| C 36 4_255.0 | 255.0 | 3.5 | 450 | 0.18 | 1300 | 6500 | 2.0 | 450 | 0.10 | 1300 | 6500 | |
| C 36 4_290.9 | 290.9 | 3.1 | 450 | 0.15 | 1300 | 6500 | 1.7 | 450 | 0.09 | 1300 | 6500 | |
| C 36 4_318.9 | 318.9 | 2.8 | 450 | 0.14 | 1300 | 6500 | 1.6 | 450 | 0.08 | 1300 | 6500 | |
| C 36 4_341.7 | 341.7 | 2.6 | 450 | 0.13 | 1300 | 6500 | 1.5 | 450 | 0.07 | 1300 | 6500 | |
| C 36 4_377.9 | 377.9 | 2.4 | 450 | 0.12 | 1300 | 6500 | 1.3 | 450 | 0.07 | 1300 | 6500 | |
| C 36 4_420.2 | 420.2 | 2.1 | 450 | 0.11 | 1300 | 6500 | 1.2 | 450 | 0.06 | 1300 | 6500 | |
| C 36 4_458.4 | 458.4 | 2.0 | 450 | 0.10 | 1300 | 6500 | 1.1 | 450 | 0.05 | 1300 | 6500 | |
| C 36 4_517.2 | 517.2 | 1.7 | 450 | 0.09 | 1300 | 6500 | 1.0 | 450 | 0.05 | 1300 | 6500 | |
| C 36 4_574.7 | 574.7 | 1.6 | 450 | 0.08 | 1300 | 6500 | 0.9 | 450 | 0.04 | 1300 | 6500 | |
| C 36 4_665.9 | 665.9 | 1.4 | 450 | 0.07 | 1300 | 6500 | 0.8 | 450 | 0.04 | 1300 | 6500 | |
| C 36 4_754.2 | 754.2 | 1.2 | 450 | 0.06 | 1300 | 6500 | 0.7 | 450 | 0.03 | 1300 | 6500 | |
| C 36 4_848.5 | 848.5 | 1.1 | 450 | 0.05 | 1300 | 6500 | 0.6 | 450 | 0.03 | 1300 | 6500 | |

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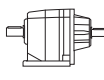



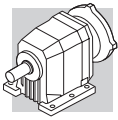
C 41 600 Nm

|  | i | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | |  |
|---|-------|-------------------------------|----------------|----------------|---------------|---------------|-------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 41 2_2.7 | 2.7 | 1037 | 245 | 28 | 980 | 1290 | 519 | 245 | 14.0 | 1390 | 2060 | 144 |
| C 41 2_3.6 | 3.6 | 778 | 255 | 22 | 1070 | 1540 | 389 | 255 | 10.9 | 1650 | 2390 | |
| C 41 2_4.7 | 4.7 | 596 | 260 | 17.1 | 1170 | 1800 | 298 | 260 | 8.5 | 2010 | 2730 | |
| C 41 2_6.0 | 6.0 | 467 | 260 | 13.4 | 1290 | 2100 | 233 | 260 | 6.7 | 2400 | 3110 | |
| C 41 2_6.4 | 6.4 | 438 | 275 | 13.3 | 2270 | 2590 | 219 | 345 | 8.3 | 2860 | 3260 | |
| C 41 2_7.1 | 7.1 | 394 | 285 | 12.4 | 2360 | 2700 | 197 | 355 | 7.7 | 2980 | 3420 | |
| C 41 2_8.6 | 8.6 | 326 | 305 | 10.9 | 2300 | 2860 | 163 | 385 | 6.9 | 2900 | 3600 | |
| C 41 2_9.6 | 9.6 | 292 | 310 | 10.0 | 2410 | 3010 | 146 | 390 | 6.3 | 3030 | 3800 | |
| C 41 2_11.2 | 11.2 | 250 | 335 | 9.2 | 2310 | 3100 | 125 | 420 | 5.8 | 2910 | 3920 | |
| C 41 2_12.4 | 12.4 | 226 | 340 | 8.5 | 2440 | 3270 | 113 | 425 | 5.3 | 3070 | 4140 | |
| C 41 2_14.2 | 14.2 | 197 | 355 | 7.7 | 2330 | 3410 | 99 | 445 | 4.8 | 2980 | 4300 | |
| C 41 2_15.8 | 15.8 | 177 | 360 | 7.0 | 2460 | 3590 | 89 | 450 | 4.4 | 3120 | 4540 | |
| C 41 2_17.8 | 17.8 | 157 | 380 | 6.6 | 2330 | 3680 | 79 | 480 | 4.2 | 3050 | 4630 | |
| C 41 2_19.8 | 19.8 | 141 | 385 | 6.0 | 2460 | 3880 | 71 | 485 | 3.8 | 3180 | 4890 | |
| C 41 2_22.6 | 22.6 | 124 | 410 | 5.6 | 2320 | 3990 | 62 | 500 | 3.4 | 3110 | 5110 | |
| C 41 2_25.0 | 25.0 | 112 | 415 | 5.1 | 2460 | 4210 | 56 | 500 | 3.1 | 3230 | 5420 | |
| C 41 2_28.3 | 28.3 | 99 | 445 | 4.9 | 2310 | 4290 | 49 | 500 | 2.7 | 3180 | 5710 | |
| C 41 2_31.4 | 31.4 | 89 | 445 | 4.4 | 2440 | 4550 | 45 | 500 | 2.5 | 3300 | 6040 | |
| C 41 2_33.4 | 33.4 | 84 | 465 | 4.3 | 2390 | 4560 | 42 | 500 | 2.3 | 3220 | 6170 | |
| C 41 2_37.1 | 37.1 | 75 | 470 | 3.9 | 2440 | 4810 | 38 | 500 | 2.1 | 3320 | 6520 | |
| C 41 2_44.8 | 44.8 | 63 | 500 | 3.4 | 2660 | 5130 | 31 | 500 | 1.7 | 3500 | 7000 | |
| C 41 3_28.5 | 28.5 | 98 | 445 | 4.9 | 3060 | 4300 | 49 | 560 | 3.1 | 3500 | 5420 | |
| C 41 3_31.2 | 31.2 | 90 | 450 | 4.5 | 3090 | 4510 | 45 | 570 | 2.9 | 3500 | 5670 | |
| C 41 3_36.8 | 36.8 | 76 | 480 | 4.1 | 3070 | 4710 | 38 | 600 | 2.6 | 3500 | 5960 | |
| C 41 3_40.3 | 40.3 | 69 | 485 | 3.8 | 3100 | 4940 | 35 | 600 | 2.3 | 3500 | 6280 | |
| C 41 3_47.0 | 47.0 | 60 | 515 | 3.5 | 3070 | 5140 | 29.8 | 600 | 2.0 | 3500 | 6720 | |
| C 41 3_51.5 | 51.5 | 54 | 525 | 3.2 | 3090 | 5360 | 27.2 | 600 | 1.8 | 3500 | 7000 | |
| C 41 3_58.7 | 58.7 | 48 | 550 | 3.0 | 3070 | 5550 | 23.9 | 600 | 1.6 | 3500 | 7000 | |
| C 41 3_64.3 | 64.3 | 44 | 560 | 2.7 | 3090 | 5800 | 21.8 | 600 | 1.5 | 3500 | 7000 | |
| C 41 3_74.4 | 74.4 | 38 | 590 | 2.5 | 3060 | 6040 | 18.8 | 600 | 1.3 | 3500 | 7000 | |
| C 41 3_81.5 | 81.5 | 34 | 600 | 2.3 | 3090 | 6310 | 17.2 | 600 | 1.2 | 3500 | 7000 | |
| C 41 3_93.3 | 93.3 | 30 | 600 | 2.0 | 3080 | 6700 | 15.0 | 600 | 1.0 | 3500 | 7000 | |
| C 41 3_102.3 | 102.3 | 27.4 | 600 | 1.8 | 3110 | 7000 | 13.7 | 600 | 0.92 | 3500 | 7000 | |
| C 41 3_110.1 | 110.1 | 25.4 | 600 | 1.7 | 3090 | 7000 | 12.7 | 600 | 0.86 | 3500 | 7000 | |
| C 41 3_120.6 | 120.6 | 23.2 | 600 | 1.6 | 3110 | 7000 | 11.6 | 600 | 0.78 | 3500 | 7000 | |
| C 41 3_132.9 | 132.9 | 21.1 | 600 | 1.4 | 3090 | 7000 | 10.5 | 600 | 0.71 | 3500 | 7000 | |
| C 41 3_145.6 | 145.6 | 19.2 | 600 | 1.3 | 3120 | 7000 | 9.6 | 600 | 0.65 | 3500 | 7000 | |
| C 41 3_164.1 | 164.1 | 17.1 | 600 | 1.2 | 3100 | 7000 | 8.5 | 600 | 0.58 | 3500 | 7000 | |
| C 41 3_179.9 | 179.9 | 15.6 | 600 | 1.1 | 3120 | 7000 | 7.8 | 600 | 0.53 | 3500 | 7000 | |
| C 41 3_190.8 | 190.8 | 14.7 | 600 | 0.99 | 3110 | 7000 | 7.3 | 600 | 0.50 | 3500 | 7000 | |
| C 41 3_209.1 | 209.1 | 13.4 | 600 | 0.90 | 3130 | 7000 | 6.7 | 600 | 0.45 | 3500 | 7000 | |
| C 41 4_239.9 | 239.9 | 11.7 | 600 | 0.81 | 1480 | 7000 | 5.8 | 600 | 0.40 | 1910 | 7000 | |
| C 41 4_263.0 | 263.0 | 10.6 | 600 | 0.74 | 1500 | 7000 | 5.3 | 600 | 0.37 | 1920 | 7000 | |
| C 41 4_304.2 | 304.2 | 9.2 | 600 | 0.64 | 1520 | 7000 | 4.6 | 600 | 0.32 | 1950 | 7000 | |
| C 41 4_333.4 | 333.4 | 8.4 | 600 | 0.58 | 1530 | 7000 | 4.2 | 600 | 0.29 | 1960 | 7000 | |
| C 41 4_381.8 | 381.8 | 7.3 | 600 | 0.51 | 1540 | 7000 | 3.7 | 600 | 0.25 | 1970 | 7000 | |
| C 41 4_418.5 | 418.5 | 6.7 | 600 | 0.46 | 1550 | 7000 | 3.3 | 600 | 0.23 | 1980 | 7000 | |
| C 41 4_450.2 | 450.2 | 6.2 | 600 | 0.43 | 1560 | 7000 | 3.1 | 600 | 0.21 | 1990 | 7000 | |
| C 41 4_493.5 | 493.5 | 5.7 | 600 | 0.39 | 1570 | 7000 | 2.8 | 600 | 0.20 | 2000 | 7000 | |
| C 41 4_543.5 | 543.5 | 5.2 | 600 | 0.36 | 1570 | 7000 | 2.6 | 600 | 0.18 | 2000 | 7000 | |
| C 41 4_595.8 | 595.8 | 4.7 | 600 | 0.32 | 1580 | 7000 | 2.3 | 600 | 0.16 | 2010 | 7000 | |
| C 41 4_671.3 | 671.3 | 4.2 | 600 | 0.29 | 1590 | 7000 | 2.1 | 600 | 0.14 | 2020 | 7000 | |
| C 41 4_735.9 | 735.9 | 3.8 | 600 | 0.26 | 1590 | 7000 | 1.9 | 600 | 0.13 | 2020 | 7000 | |
| C 41 4_780.4 | 780.4 | 3.6 | 600 | 0.25 | 1600 | 7000 | 1.8 | 600 | 0.12 | 2030 | 7000 | |
| C 41 4_855.5 | 855.5 | 3.3 | 600 | 0.23 | 1600 | 7000 | 1.6 | 600 | 0.11 | 2030 | 7000 | |



C 41 600 Nm

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 41 2_2.7 | 2.7 | 333 | 245 | 9.0 | 2560 | 2650 | 185 | 245 | 5.0 | 3500 | 3590 | 144 |
| C 41 2_3.6 | 3.6 | 250 | 255 | 7.0 | 2710 | 3050 | 139 | 255 | 3.9 | 3500 | 4090 | |
| C 41 2_4.7 | 4.7 | 191 | 260 | 5.5 | 2900 | 3440 | 106 | 260 | 3.0 | 3500 | 4570 | |
| C 41 2_6.0 | 6.0 | 150 | 260 | 4.3 | 3080 | 3890 | 83 | 260 | 2.4 | 3500 | 5110 | |
| C 41 2_6.4 | 6.4 | 141 | 400 | 6.2 | 3310 | 3780 | 78 | 490 | 4.2 | 3500 | 4580 | |
| C 41 2_7.1 | 7.1 | 127 | 415 | 5.8 | 3460 | 3940 | 70 | 500 | 3.9 | 3500 | 4820 | |
| C 41 2_8.6 | 8.6 | 105 | 445 | 5.1 | 3360 | 4180 | 58 | 500 | 3.2 | 3500 | 5290 | |
| C 41 2_9.6 | 9.6 | 94 | 450 | 4.7 | 3500 | 4410 | 52 | 500 | 2.9 | 3500 | 5600 | |
| C 41 2_11.2 | 11.2 | 80 | 490 | 4.3 | 3500 | 4520 | 45 | 500 | 2.5 | 3500 | 5980 | |
| C 41 2_12.4 | 12.4 | 73 | 495 | 4.0 | 3500 | 4780 | 40 | 500 | 2.2 | 3500 | 6320 | |
| C 41 2_14.2 | 14.2 | 63 | 500 | 3.5 | 3500 | 5060 | 35 | 500 | 1.9 | 3500 | 6700 | |
| C 41 2_15.8 | 15.8 | 57 | 500 | 3.1 | 3500 | 5370 | 32 | 500 | 1.7 | 3500 | 7000 | |
| C 41 2_17.8 | 17.8 | 51 | 500 | 2.8 | 3500 | 5650 | 28.1 | 500 | 1.5 | 3500 | 7000 | |
| C 41 2_19.8 | 19.8 | 45 | 500 | 2.5 | 3500 | 5970 | 25.3 | 500 | 1.4 | 3500 | 7000 | |
| C 41 2_22.6 | 22.6 | 40 | 500 | 2.2 | 3500 | 6320 | 22.1 | 500 | 1.2 | 3500 | 7000 | |
| C 41 2_25.0 | 25.0 | 36 | 500 | 2.0 | 3500 | 6670 | 20.0 | 500 | 1.1 | 3500 | 7000 | |
| C 41 2_28.3 | 28.3 | 32 | 500 | 1.8 | 3500 | 7000 | 17.7 | 500 | 0.97 | 3500 | 7000 | |
| C 41 2_31.4 | 31.4 | 28.7 | 500 | 1.6 | 3500 | 7000 | 15.9 | 500 | 0.88 | 3500 | 7000 | |
| C 41 2_33.4 | 33.4 | 26.9 | 500 | 1.5 | 3500 | 7000 | 15.0 | 500 | 0.83 | 3500 | 7000 | |
| C 41 2_37.1 | 37.1 | 24.3 | 500 | 1.3 | 3500 | 7000 | 13.5 | 500 | 0.74 | 3500 | 7000 | |
| C 41 2_44.8 | 44.8 | 20.1 | 500 | 1.1 | 3500 | 7000 | 11.2 | 500 | 0.62 | 3500 | 7000 | |
| C 41 3_28.5 | 28.5 | 32 | 600 | 2.1 | 3500 | 6530 | 17.5 | 600 | 1.2 | 3500 | 7000 | |
| C 41 3_31.2 | 31.2 | 28.8 | 600 | 1.9 | 3500 | 6870 | 16.0 | 600 | 1.1 | 3500 | 7000 | |
| C 41 3_36.8 | 36.8 | 24.5 | 600 | 1.7 | 3500 | 7000 | 13.6 | 600 | 0.92 | 3500 | 7000 | |
| C 41 3_40.3 | 40.3 | 22.3 | 600 | 1.5 | 3500 | 7000 | 12.4 | 600 | 0.84 | 3500 | 7000 | |
| C 41 3_47.0 | 47.0 | 19.1 | 600 | 1.3 | 3500 | 7000 | 10.6 | 600 | 0.72 | 3500 | 7000 | |
| C 41 3_51.5 | 51.5 | 17.5 | 600 | 1.2 | 3500 | 7000 | 9.7 | 600 | 0.66 | 3500 | 7000 | |
| C 41 3_58.7 | 58.7 | 15.3 | 600 | 1.0 | 3500 | 7000 | 8.5 | 600 | 0.58 | 3500 | 7000 | |
| C 41 3_64.3 | 64.3 | 14.0 | 600 | 0.95 | 3500 | 7000 | 7.8 | 600 | 0.53 | 3500 | 7000 | |
| C 41 3_74.4 | 74.4 | 12.1 | 600 | 0.82 | 3500 | 7000 | 6.7 | 600 | 0.45 | 3500 | 7000 | |
| C 41 3_81.5 | 81.5 | 11.0 | 600 | 0.75 | 3500 | 7000 | 6.1 | 600 | 0.41 | 3500 | 7000 | |
| C 41 3_93.3 | 93.3 | 9.6 | 600 | 0.65 | 3500 | 7000 | 5.4 | 600 | 0.36 | 3500 | 7000 | |
| C 41 3_102.3 | 102.3 | 8.8 | 600 | 0.59 | 3500 | 7000 | 4.9 | 600 | 0.33 | 3500 | 7000 | |
| C 41 3_110.1 | 110.1 | 8.2 | 600 | 0.55 | 3500 | 7000 | 4.5 | 600 | 0.31 | 3500 | 7000 | |
| C 41 3_120.6 | 120.6 | 7.5 | 600 | 0.50 | 3500 | 7000 | 4.1 | 600 | 0.28 | 3500 | 7000 | |
| C 41 3_132.9 | 132.9 | 6.8 | 600 | 0.46 | 3500 | 7000 | 3.8 | 600 | 0.25 | 3500 | 7000 | |
| C 41 3_145.6 | 145.6 | 6.2 | 600 | 0.42 | 3500 | 7000 | 3.4 | 600 | 0.23 | 3500 | 7000 | |
| C 41 3_164.1 | 164.1 | 5.5 | 600 | 0.37 | 3500 | 7000 | 3.0 | 600 | 0.21 | 3500 | 7000 | |
| C 41 3_179.9 | 179.9 | 5.0 | 600 | 0.34 | 3500 | 7000 | 2.8 | 600 | 0.19 | 3500 | 7000 | |
| C 41 3_190.8 | 190.8 | 4.7 | 600 | 0.32 | 3500 | 7000 | 2.6 | 600 | 0.18 | 3500 | 7000 | |
| C 41 3_209.1 | 209.1 | 4.3 | 600 | 0.29 | 3500 | 7000 | 2.4 | 600 | 0.16 | 3500 | 7000 | |
| C 41 4_239.9 | 239.9 | 3.8 | 600 | 0.26 | 2200 | 7000 | 2.1 | 600 | 0.14 | 2200 | 7000 | |
| C 41 4_263.0 | 263.0 | 3.4 | 600 | 0.24 | 2200 | 7000 | 1.9 | 600 | 0.13 | 2200 | 7000 | |
| C 41 4_304.2 | 304.2 | 3.0 | 600 | 0.20 | 2200 | 7000 | 1.6 | 600 | 0.11 | 2200 | 7000 | |
| C 41 4_333.4 | 333.4 | 2.7 | 600 | 0.19 | 2200 | 7000 | 1.5 | 600 | 0.10 | 2200 | 7000 | |
| C 41 4_381.8 | 381.8 | 2.4 | 600 | 0.16 | 2200 | 7000 | 1.3 | 600 | 0.09 | 2200 | 7000 | |
| C 41 4_418.5 | 418.5 | 2.2 | 600 | 0.15 | 2200 | 7000 | 1.2 | 600 | 0.08 | 2200 | 7000 | |
| C 41 4_450.2 | 450.2 | 2.0 | 600 | 0.14 | 2200 | 7000 | 1.1 | 600 | 0.08 | 2200 | 7000 | |
| C 41 4_493.5 | 493.5 | 1.8 | 600 | 0.13 | 2200 | 7000 | 1.0 | 600 | 0.07 | 2200 | 7000 | |
| C 41 4_543.5 | 543.5 | 1.7 | 600 | 0.11 | 2200 | 7000 | 0.92 | 600 | 0.06 | 2200 | 7000 | |
| C 41 4_595.8 | 595.8 | 1.5 | 600 | 0.10 | 2200 | 7000 | 0.84 | 600 | 0.06 | 2200 | 7000 | |
| C 41 4_671.3 | 671.3 | 1.3 | 600 | 0.09 | 2200 | 7000 | 0.74 | 600 | 0.05 | 2200 | 7000 | |
| C 41 4_735.9 | 735.9 | 1.2 | 600 | 0.08 | 2200 | 7000 | 0.68 | 600 | 0.05 | 2200 | 7000 | |
| C 41 4_780.4 | 780.4 | 1.2 | 600 | 0.08 | 2200 | 7000 | 0.64 | 600 | 0.04 | 2200 | 7000 | |
| C 41 4_855.5 | 855.5 | 1.1 | 600 | 0.07 | 2200 | 7000 | 0.58 | 600 | 0.04 | 2200 | 7000 | |

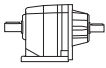



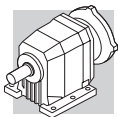
C 51 1000 Nm

| | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | | |
|--------------|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|--|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| C 51 2_2.6 | 2.6 | 1077 | 315 | 37 | 980 | 3340 | 538 | 400 | 24 | 1390 | 4200 | |
| C 51 2_3.3 | 3.3 | 848 | 340 | 32 | 1070 | 3610 | 424 | 420 | 19.6 | 1650 | 4580 | |
| C 51 2_4.5 | 4.5 | 622 | 370 | 25 | 1170 | 4010 | 311 | 435 | 14.9 | 2010 | 5180 | |
| C 51 2_5.6 | 5.6 | 500 | 390 | 21 | 1290 | 4380 | 250 | 435 | 12.0 | 2400 | 5760 | |
| C 51 2_7.0 | 7.0 | 400 | 500 | 22 | 2270 | 4760 | 200 | 630 | 13.9 | 2860 | 6000 | |
| C 51 2_7.8 | 7.8 | 359 | 510 | 20 | 2360 | 4940 | 179 | 640 | 12.7 | 2980 | 6230 | |
| C 51 2_8.8 | 8.8 | 318 | 545 | 19.1 | 2300 | 5120 | 159 | 685 | 12.0 | 2900 | 6450 | |
| C 51 2_9.8 | 9.8 | 286 | 545 | 17.2 | 2410 | 5350 | 143 | 685 | 10.8 | 3030 | 6750 | |
| C 51 2_11.8 | 11.8 | 237 | 610 | 16.0 | 2310 | 5620 | 119 | 770 | 10.1 | 2910 | 7080 | |
| C 51 2_13.1 | 13.1 | 214 | 595 | 14.0 | 2440 | 5930 | 107 | 750 | 8.8 | 3070 | 7470 | |
| C 51 2_15.0 | 15.0 | 187 | 660 | 13.6 | 2330 | 6080 | 93 | 800 | 8.2 | 2980 | 7770 | |
| C 51 2_16.6 | 16.6 | 169 | 640 | 11.9 | 2460 | 6420 | 84 | 795 | 7.4 | 3120 | 8130 | |
| C 51 2_18.9 | 18.9 | 148 | 695 | 11.3 | 2330 | 6630 | 74 | 800 | 6.5 | 3050 | 8620 | |
| C 51 2_21.0 | 21.0 | 133 | 675 | 9.9 | 2460 | 7000 | 67 | 795 | 5.8 | 3180 | 9020 | |
| C 51 2_23.4 | 23.4 | 120 | 735 | 9.7 | 2320 | 7160 | 60 | 800 | 5.3 | 3110 | 9460 | |
| C 51 2_25.9 | 25.9 | 108 | 715 | 8.5 | 2460 | 7550 | 54 | 795 | 4.7 | 3230 | 9890 | |
| C 51 2_29.8 | 29.8 | 94 | 795 | 8.2 | 2310 | 7770 | 47 | 800 | 4.1 | 3180 | 10000 | |
| C 51 2_33.0 | 33.0 | 85 | 775 | 7.2 | 2440 | 8190 | 42 | 795 | 3.7 | 3300 | 10000 | |
| C 51 2_36.4 | 36.4 | 77 | 750 | 6.4 | 2390 | 8660 | 38 | 790 | 3.3 | 3220 | 10000 | |
| C 51 2_40.4 | 40.4 | 69 | 795 | 6.1 | 2440 | 8870 | 35 | 795 | 3.0 | 3320 | 10000 | |
| C 51 2_43.1 | 43.1 | 65 | 730 | 5.2 | 2450 | 9380 | 32 | 770 | 2.8 | 3280 | 10000 | |
| C 51 2_47.8 | 47.8 | 59 | 800 | 5.2 | 2460 | 9530 | 29.3 | 800 | 2.6 | 3350 | 10000 | |
| C 51 2_51.4 | 51.4 | 54 | 665 | 4.0 | 2550 | 10000 | 27.2 | 700 | 2.1 | 3390 | 10000 | |
| C 51 2_57.0 | 57.0 | 49 | 745 | 4.0 | 2540 | 10000 | 24.6 | 785 | 2.1 | 3380 | 10000 | |
| | | | | | | | | | | | | |
| C 51 3_21.8 | 21.8 | 128 | 720 | 10.4 | 2870 | 6940 | 64 | 905 | 6.5 | 3500 | 8750 | |
| C 51 3_23.9 | 23.9 | 117 | 730 | 9.6 | 2910 | 7230 | 59 | 920 | 6.1 | 3500 | 9110 | |
| C 51 3_27.4 | 27.4 | 102 | 770 | 8.9 | 2890 | 7510 | 51 | 970 | 5.6 | 3500 | 9470 | |
| C 51 3_30.1 | 30.1 | 93 | 780 | 8.2 | 2930 | 7830 | 47 | 1000 | 5.2 | 3500 | 9810 | |
| C 51 3_37.0 | 37.0 | 76 | 840 | 7.2 | 2910 | 8330 | 38 | 1000 | 4.3 | 3500 | 10000 | |
| C 51 3_40.5 | 40.5 | 69 | 855 | 6.7 | 2940 | 8670 | 35 | 1000 | 3.9 | 3500 | 10000 | |
| C 51 3_46.7 | 46.7 | 60 | 905 | 6.1 | 2920 | 9020 | 30 | 1000 | 3.4 | 3500 | 10000 | |
| C 51 3_51.2 | 51.2 | 55 | 920 | 5.7 | 2950 | 9390 | 27.3 | 1000 | 3.1 | 3500 | 10000 | |
| C 51 3_59.0 | 59.0 | 47 | 970 | 5.2 | 2910 | 9780 | 23.7 | 1000 | 2.7 | 3500 | 10000 | |
| C 51 3_64.6 | 64.6 | 43 | 1000 | 4.9 | 2940 | 10000 | 21.7 | 1000 | 2.4 | 3500 | 10000 | |
| C 51 3_72.9 | 72.9 | 38 | 1000 | 4.3 | 2920 | 10000 | 19.2 | 1000 | 2.2 | 3500 | 10000 | |
| C 51 3_79.9 | 79.9 | 35 | 1000 | 3.9 | 2960 | 10000 | 17.5 | 1000 | 2.0 | 3500 | 10000 | |
| C 51 3_93.0 | 93.0 | 30 | 1000 | 3.4 | 2950 | 10000 | 15.1 | 1000 | 1.7 | 3500 | 10000 | |
| C 51 3_101.8 | 101.8 | 27.5 | 1000 | 3.1 | 2990 | 10000 | 13.8 | 1000 | 1.5 | 3500 | 10000 | |
| C 51 3_113.6 | 113.6 | 24.6 | 1000 | 2.8 | 2960 | 10000 | 12.3 | 1000 | 1.4 | 3500 | 10000 | |
| C 51 3_124.4 | 124.4 | 22.5 | 1000 | 2.5 | 3000 | 10000 | 11.3 | 1000 | 1.3 | 3500 | 10000 | |
| C 51 3_134.6 | 134.6 | 20.8 | 1000 | 2.3 | 2970 | 10000 | 10.4 | 1000 | 1.2 | 3500 | 10000 | |
| C 51 3_147.4 | 147.4 | 19.0 | 1000 | 2.1 | 3010 | 10000 | 9.5 | 1000 | 1.1 | 3500 | 10000 | |
| C 51 3_160.5 | 160.5 | 17.4 | 1000 | 2.0 | 2980 | 10000 | 8.7 | 1000 | 0.98 | 3500 | 10000 | |
| C 51 3_175.8 | 175.8 | 15.9 | 1000 | 1.8 | 3020 | 10000 | 8.0 | 1000 | 0.90 | 3500 | 10000 | |
| C 51 3_197.9 | 197.9 | 14.1 | 1000 | 1.6 | 2980 | 10000 | 7.1 | 1000 | 0.80 | 3500 | 10000 | |
| C 51 3_216.7 | 216.7 | 12.9 | 1000 | 1.5 | 3020 | 10000 | 6.5 | 1000 | 0.73 | 3500 | 10000 | |
| | | | | | | | | | | | | |
| C 51 4_240.9 | 240.9 | 11.6 | 1000 | 1.3 | 2100 | 10000 | 5.8 | 1000 | 0.67 | 2200 | 10000 | |
| C 51 4_263.8 | 263.8 | 10.6 | 1000 | 1.2 | 2120 | 10000 | 5.3 | 1000 | 0.61 | 2200 | 10000 | |
| C 51 4_297.8 | 297.8 | 9.4 | 1000 | 1.1 | 2140 | 10000 | 4.7 | 1000 | 0.54 | 2200 | 10000 | |
| C 51 4_326.1 | 326.1 | 8.6 | 1000 | 0.99 | 2160 | 10000 | 4.3 | 1000 | 0.49 | 2200 | 10000 | |
| C 51 4_379.6 | 379.6 | 7.4 | 1000 | 0.85 | 2190 | 10000 | 3.7 | 1000 | 0.42 | 2200 | 10000 | |
| C 51 4_415.7 | 415.7 | 6.7 | 1000 | 0.78 | 2200 | 10000 | 3.4 | 1000 | 0.39 | 2200 | 10000 | |
| C 51 4_463.9 | 463.9 | 6.0 | 1000 | 0.69 | 2200 | 10000 | 3.0 | 1000 | 0.35 | 2200 | 10000 | |
| C 51 4_508.0 | 508.0 | 5.5 | 1000 | 0.63 | 2200 | 10000 | 2.8 | 1000 | 0.32 | 2200 | 10000 | |
| C 51 4_549.7 | 549.7 | 5.1 | 1000 | 0.59 | 2200 | 10000 | 2.5 | 1000 | 0.29 | 2200 | 10000 | |
| C 51 4_602.0 | 602.0 | 4.7 | 1000 | 0.54 | 2200 | 10000 | 2.3 | 1000 | 0.27 | 2200 | 10000 | |
| C 51 4_655.4 | 655.4 | 4.3 | 1000 | 0.49 | 2200 | 10000 | 2.1 | 1000 | 0.25 | 2200 | 10000 | |
| C 51 4_717.7 | 717.7 | 3.9 | 1000 | 0.45 | 2200 | 10000 | 2.0 | 1000 | 0.22 | 2200 | 10000 | |
| C 51 4_808.0 | 808.0 | 3.5 | 1000 | 0.40 | 2200 | 10000 | 1.7 | 1000 | 0.20 | 2200 | 10000 | |
| C 51 4_884.9 | 884.9 | 3.2 | 1000 | 0.36 | 2200 | 10000 | 1.6 | 1000 | 0.18 | 2200 | 10000 | |

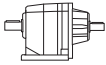



C 51 1000 Nm

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| C 51 2_2.6 | 2.6 | 346 | 400 | 15.3 | 2560 | 5130 | 192 | 400 | 8.5 | 3500 | 6620 | |
| C 51 2_3.3 | 3.3 | 273 | 420 | 12.6 | 2710 | 5590 | 152 | 420 | 7.0 | 3500 | 7200 | |
| C 51 2_4.5 | 4.5 | 200 | 435 | 9.6 | 2900 | 6300 | 111 | 435 | 5.3 | 3500 | 8070 | |
| C 51 2_5.6 | 5.6 | 161 | 435 | 7.7 | 3080 | 6970 | 89 | 435 | 4.3 | 3500 | 8880 | |
| C 51 2_7.0 | 7.0 | 129 | 730 | 10.3 | 3310 | 6950 | 71 | 800 | 6.3 | 3500 | 8760 | |
| C 51 2_7.8 | 7.8 | 115 | 740 | 9.4 | 3460 | 7220 | 64 | 800 | 5.7 | 3500 | 9140 | |
| C 51 2_8.8 | 8.8 | 102 | 795 | 9.0 | 3360 | 7470 | 57 | 800 | 5.0 | 3500 | 9680 | |
| C 51 2_9.8 | 9.8 | 92 | 800 | 8.1 | 3500 | 7790 | 51 | 800 | 4.5 | 3500 | 10000 | |
| C 51 2_11.8 | 11.8 | 76 | 800 | 6.7 | 3500 | 8530 | 42 | 800 | 3.7 | 3500 | 10000 | |
| C 51 2_13.1 | 13.1 | 69 | 800 | 6.1 | 3500 | 8900 | 38 | 800 | 3.4 | 3500 | 10000 | |
| C 51 2_15.0 | 15.0 | 60 | 800 | 5.3 | 3500 | 9450 | 33 | 800 | 2.9 | 3500 | 10000 | |
| C 51 2_16.6 | 16.6 | 54 | 800 | 4.8 | 3500 | 9850 | 30 | 800 | 2.7 | 3500 | 10000 | |
| C 51 2_18.9 | 18.9 | 48 | 800 | 4.2 | 3500 | 10000 | 26.5 | 800 | 2.3 | 3500 | 10000 | |
| C 51 2_21.0 | 21.0 | 43 | 800 | 3.8 | 3500 | 10000 | 23.8 | 800 | 2.1 | 3500 | 10000 | |
| C 51 2_23.4 | 23.4 | 38 | 800 | 3.4 | 3500 | 10000 | 21.4 | 800 | 1.9 | 3500 | 10000 | |
| C 51 2_25.9 | 25.9 | 35 | 800 | 3.1 | 3500 | 10000 | 19.3 | 800 | 1.7 | 3500 | 10000 | |
| C 51 2_29.8 | 29.8 | 30 | 800 | 2.7 | 3500 | 10000 | 16.8 | 800 | 1.5 | 3500 | 10000 | |
| C 51 2_33.0 | 33.0 | 27.3 | 800 | 2.4 | 3500 | 10000 | 15.2 | 800 | 1.3 | 3500 | 10000 | |
| C 51 2_36.4 | 36.4 | 24.7 | 800 | 2.2 | 3500 | 10000 | 13.7 | 800 | 1.2 | 3500 | 10000 | |
| C 51 2_40.4 | 40.4 | 22.3 | 800 | 2.0 | 3500 | 10000 | 12.4 | 800 | 1.1 | 3500 | 10000 | |
| C 51 2_43.1 | 43.1 | 20.9 | 800 | 1.8 | 3500 | 10000 | 11.6 | 800 | 1.0 | 3500 | 10000 | |
| C 51 2_47.8 | 47.8 | 18.8 | 800 | 1.7 | 3500 | 10000 | 10.5 | 800 | 0.92 | 3500 | 10000 | |
| C 51 2_51.4 | 51.4 | 17.5 | 725 | 1.4 | 3500 | 10000 | 9.7 | 755 | 0.81 | 3500 | 10000 | |
| C 51 2_57.0 | 57.0 | 15.8 | 795 | 1.4 | 3500 | 10000 | 8.8 | 795 | 0.77 | 3500 | 10000 | |
| C 51 3_21.8 | 21.8 | 41 | 1000 | 4.6 | 3500 | 10000 | 22.9 | 1000 | 2.6 | 3500 | 10000 | |
| C 51 3_23.9 | 23.9 | 38 | 1000 | 4.2 | 3500 | 10000 | 20.9 | 1000 | 2.4 | 3500 | 10000 | |
| C 51 3_27.4 | 27.4 | 33 | 1000 | 3.7 | 3500 | 10000 | 18.2 | 1000 | 2.1 | 3500 | 10000 | |
| C 51 3_30.1 | 30.1 | 29.9 | 1000 | 3.4 | 3500 | 10000 | 16.6 | 1000 | 1.9 | 3500 | 10000 | |
| C 51 3_37.0 | 37.0 | 24.3 | 1000 | 2.7 | 3500 | 10000 | 13.5 | 1000 | 1.5 | 3500 | 10000 | |
| C 51 3_40.5 | 40.5 | 22.2 | 1000 | 2.5 | 3500 | 10000 | 12.3 | 1000 | 1.4 | 3500 | 10000 | |
| C 51 3_46.7 | 46.7 | 19.3 | 1000 | 2.2 | 3500 | 10000 | 10.7 | 1000 | 1.2 | 3500 | 10000 | |
| C 51 3_51.2 | 51.2 | 17.6 | 1000 | 2.0 | 3500 | 10000 | 9.8 | 1000 | 1.1 | 3500 | 10000 | |
| C 51 3_59.0 | 59.0 | 15.3 | 1000 | 1.7 | 3500 | 10000 | 8.5 | 1000 | 0.95 | 3500 | 10000 | |
| C 51 3_64.6 | 64.6 | 13.9 | 1000 | 1.6 | 3500 | 10000 | 7.7 | 1000 | 0.87 | 3500 | 10000 | |
| C 51 3_72.9 | 72.9 | 12.3 | 1000 | 1.4 | 3500 | 10000 | 6.9 | 1000 | 0.77 | 3500 | 10000 | |
| C 51 3_79.9 | 79.9 | 11.3 | 1000 | 1.3 | 3500 | 10000 | 6.3 | 1000 | 0.70 | 3500 | 10000 | |
| C 51 3_93.0 | 93.0 | 9.7 | 1000 | 1.1 | 3500 | 10000 | 5.4 | 1000 | 0.61 | 3500 | 10000 | |
| C 51 3_101.8 | 101.8 | 8.8 | 1000 | 1.0 | 3500 | 10000 | 4.9 | 1000 | 0.55 | 3500 | 10000 | |
| C 51 3_113.6 | 113.6 | 7.9 | 1000 | 0.89 | 3500 | 10000 | 4.4 | 1000 | 0.50 | 3500 | 10000 | |
| C 51 3_124.4 | 124.4 | 7.2 | 1000 | 0.81 | 3500 | 10000 | 4.0 | 1000 | 0.45 | 3500 | 10000 | |
| C 51 3_134.6 | 134.6 | 6.7 | 1000 | 0.75 | 3500 | 10000 | 3.7 | 1000 | 0.42 | 3500 | 10000 | |
| C 51 3_147.4 | 147.4 | 6.1 | 1000 | 0.69 | 3500 | 10000 | 3.4 | 1000 | 0.38 | 3500 | 10000 | |
| C 51 3_160.5 | 160.5 | 5.6 | 1000 | 0.63 | 3500 | 10000 | 3.1 | 1000 | 0.35 | 3500 | 10000 | |
| C 51 3_175.8 | 175.8 | 5.1 | 1000 | 0.58 | 3500 | 10000 | 2.8 | 1000 | 0.32 | 3500 | 10000 | |
| C 51 3_197.9 | 197.9 | 4.5 | 1000 | 0.51 | 3500 | 10000 | 2.5 | 1000 | 0.28 | 3500 | 10000 | |
| C 51 3_216.7 | 216.7 | 4.2 | 1000 | 0.47 | 3500 | 10000 | 2.3 | 1000 | 0.26 | 3500 | 10000 | |
| C 51 4_240.9 | 240.9 | 3.7 | 1000 | 0.43 | 2200 | 10000 | 2.1 | 1000 | 0.24 | 2200 | 10000 | |
| C 51 4_263.8 | 263.8 | 3.4 | 1000 | 0.39 | 2200 | 10000 | 1.9 | 1000 | 0.22 | 2200 | 10000 | |
| C 51 4_297.8 | 297.8 | 3.0 | 1000 | 0.35 | 2200 | 10000 | 1.7 | 1000 | 0.19 | 2200 | 10000 | |
| C 51 4_326.1 | 326.1 | 2.8 | 1000 | 0.32 | 2200 | 10000 | 1.5 | 1000 | 0.18 | 2200 | 10000 | |
| C 51 4_379.6 | 379.6 | 2.4 | 1000 | 0.27 | 2200 | 10000 | 1.3 | 1000 | 0.15 | 2200 | 10000 | |
| C 51 4_415.7 | 415.7 | 2.2 | 1000 | 0.25 | 2200 | 10000 | 1.2 | 1000 | 0.14 | 2200 | 10000 | |
| C 51 4_463.9 | 463.9 | 1.9 | 1000 | 0.22 | 2200 | 10000 | 1.1 | 1000 | 0.12 | 2200 | 10000 | |
| C 51 4_508.0 | 508.0 | 1.8 | 1000 | 0.20 | 2200 | 10000 | 1.0 | 1000 | 0.11 | 2200 | 10000 | |
| C 51 4_549.7 | 549.7 | 1.6 | 1000 | 0.19 | 2200 | 10000 | 0.91 | 1000 | 0.10 | 2200 | 10000 | |
| C 51 4_602.0 | 602.0 | 1.5 | 1000 | 0.17 | 2200 | 10000 | 0.83 | 1000 | 0.10 | 2200 | 10000 | |
| C 51 4_655.4 | 655.4 | 1.4 | 1000 | 0.16 | 2200 | 10000 | 0.76 | 1000 | 0.09 | 2200 | 10000 | |
| C 51 4_717.7 | 717.7 | 1.3 | 1000 | 0.14 | 2200 | 10000 | 0.70 | 1000 | 0.08 | 2200 | 10000 | |
| C 51 4_808.0 | 808.0 | 1.1 | 1000 | 0.13 | 2200 | 10000 | 0.62 | 1000 | 0.07 | 2200 | 10000 | |
| C 51 4_884.9 | 884.9 | 1.0 | 1000 | 0.12 | 2200 | 10000 | 0.57 | 1000 | 0.07 | 2200 | 10000 | |



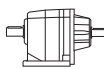

C 61 1600 Nm

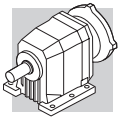
|  | i | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | |  |
|---|-------|-------------------------------|----------------|----------------|---------------|---------------|-------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 61 2_2.8 | 2.8 | 1000 | 445 | 49 | — | 4670 | 500 | 550 | 30 | 770 | 5930 | 152 |
| C 61 2_3.7 | 3.7 | 757 | 530 | 44 | — | 4950 | 378 | 575 | 24 | 1730 | 6600 | |
| C 61 2_4.6 | 4.6 | 609 | 575 | 39 | — | 5280 | 304 | 600 | 20 | 2150 | 7130 | |
| C 61 2_6.0 | 6.0 | 467 | 575 | 30 | — | 6000 | 233 | 625 | 16.1 | 2700 | 7950 | |
| C 61 2_6.7 | 6.7 | 418 | 900 | 41 | 2230 | 5600 | 209 | 1130 | 26 | 2850 | 7060 | |
| C 61 2_7.5 | 7.5 | 373 | 1000 | 41 | 2220 | 5620 | 187 | 1250 | 26 | 2900 | 7110 | |
| C 61 2_8.8 | 8.8 | 318 | 1000 | 35 | 2290 | 6080 | 159 | 1250 | 22 | 2980 | 7690 | |
| C 61 2_9.8 | 9.8 | 286 | 1100 | 35 | 2380 | 6140 | 143 | 1350 | 21 | 3330 | 7850 | |
| C 61 2_10.9 | 10.9 | 257 | 1050 | 30 | 2530 | 6590 | 128 | 1350 | 19.1 | 2940 | 8210 | |
| C 61 2_12.1 | 12.1 | 231 | 1150 | 29 | 2670 | 6670 | 116 | 1350 | 17.2 | 3600 | 8730 | |
| C 61 2_14.3 | 14.3 | 196 | 1150 | 25 | 2450 | 7220 | 98 | 1350 | 14.6 | 3590 | 9430 | |
| C 61 2_15.9 | 15.9 | 176 | 1250 | 24 | 2660 | 7350 | 88 | 1350 | 13.1 | 3780 | 9990 | |
| C 61 2_17.7 | 17.7 | 158 | 1200 | 21 | 2540 | 7850 | 79 | 1350 | 11.8 | 3700 | 10400 | |
| C 61 2_19.6 | 19.6 | 143 | 1300 | 20 | 2780 | 8000 | 71 | 1350 | 10.6 | 3890 | 11000 | |
| C 61 2_22.4 | 22.4 | 125 | 1250 | 17.2 | 2630 | 8650 | 63 | 1350 | 9.3 | 3810 | 11600 | |
| C 61 2_24.8 | 24.8 | 113 | 1350 | 16.8 | 2840 | 8840 | 56 | 1350 | 8.4 | 3980 | 12300 | |
| C 61 2_27.4 | 27.4 | 102 | 1300 | 14.6 | 2600 | 9390 | 51 | 1350 | 7.6 | 3880 | 12800 | |
| C 61 2_30.4 | 30.4 | 92 | 1350 | 13.7 | 2900 | 9770 | 46 | 1350 | 6.9 | 4050 | 13500 | |
| C 61 2_34.2 | 34.2 | 82 | 1165 | 10.5 | 3020 | 10900 | 41 | 1225 | 5.5 | 4090 | 14500 | |
| C 61 2_38.0 | 38.0 | 74 | 1280 | 10.4 | 3030 | 11100 | 37 | 1350 | 5.5 | 4100 | 14800 | |
| C 61 3_26.8 | 26.8 | 104 | 1140 | 13.4 | 3740 | 9810 | 52 | 1435 | 8.4 | 4700 | 12400 | |
| C 61 3_29.4 | 29.4 | 95 | 1160 | 12.4 | 3780 | 10200 | 48 | 1465 | 7.9 | 4700 | 12900 | |
| C 61 3_33.0 | 33.0 | 85 | 1210 | 11.6 | 3750 | 10600 | 42 | 1525 | 7.3 | 4700 | 13300 | |
| C 61 3_36.1 | 36.1 | 78 | 1235 | 10.8 | 3800 | 11000 | 39 | 1555 | 6.8 | 4700 | 13800 | |
| C 61 3_43.4 | 43.4 | 65 | 1315 | 9.6 | 3760 | 11600 | 32 | 1600 | 5.8 | 4700 | 14800 | |
| C 61 3_47.6 | 47.6 | 59 | 1340 | 8.9 | 3810 | 12100 | 29.4 | 1600 | 5.3 | 4700 | 15500 | |
| C 61 3_53.5 | 53.5 | 52 | 1400 | 8.2 | 3760 | 12500 | 26.2 | 1600 | 4.7 | 4700 | 16000 | |
| C 61 3_58.6 | 58.6 | 48 | 1430 | 7.7 | 3810 | 13000 | 23.9 | 1600 | 4.3 | 4700 | 16000 | |
| C 61 3_67.7 | 67.7 | 41 | 1505 | 7.0 | 3750 | 13500 | 20.7 | 1600 | 3.7 | 4700 | 16000 | |
| C 61 3_74.2 | 74.2 | 38 | 1535 | 6.5 | 3800 | 14100 | 18.9 | 1600 | 3.4 | 4700 | 16000 | |
| C 61 3_83.0 | 83.0 | 34 | 1600 | 6.1 | 3740 | 14500 | 16.9 | 1600 | 3.0 | 4700 | 16000 | |
| C 61 3_91.0 | 91.0 | 31 | 1600 | 5.5 | 3800 | 15200 | 15.4 | 1600 | 2.8 | 4700 | 16000 | |
| C 61 3_103.6 | 103.6 | 27.0 | 1600 | 4.9 | 3760 | 16000 | 13.5 | 1600 | 2.4 | 4700 | 16000 | |
| C 61 3_113.6 | 113.6 | 24.6 | 1600 | 4.4 | 3820 | 16000 | 12.3 | 1600 | 2.2 | 4700 | 16000 | |
| C 61 3_128.1 | 128.1 | 21.9 | 1600 | 3.9 | 3790 | 16000 | 10.9 | 1600 | 2.0 | 4700 | 16000 | |
| C 61 3_140.5 | 140.5 | 19.9 | 1600 | 3.6 | 3840 | 16000 | 10.0 | 1600 | 1.8 | 4700 | 16000 | |
| C 61 3_150.0 | 150.0 | 18.7 | 1600 | 3.4 | 3800 | 16000 | 9.3 | 1600 | 1.7 | 4700 | 16000 | |
| C 61 3_164.5 | 164.5 | 17.0 | 1600 | 3.1 | 3850 | 16000 | 8.5 | 1600 | 1.5 | 4700 | 16000 | |
| C 61 3_178.6 | 178.6 | 15.7 | 1600 | 2.8 | 3800 | 16000 | 7.8 | 1600 | 1.4 | 4700 | 16000 | |
| C 61 3_195.8 | 195.8 | 14.3 | 1600 | 2.6 | 3860 | 16000 | 7.2 | 1600 | 1.3 | 4700 | 16000 | |
| C 61 4_217.4 | 217.4 | 12.9 | 1600 | 2.4 | 3020 | 16000 | 6.4 | 1600 | 1.2 | 3500 | 16000 | |
| C 61 4_238.3 | 238.3 | 11.7 | 1600 | 2.2 | 3060 | 16000 | 5.9 | 1600 | 1.1 | 3500 | 16000 | |
| C 61 4_275.3 | 275.3 | 10.2 | 1600 | 1.9 | 3100 | 16000 | 5.1 | 1600 | 0.94 | 3500 | 16000 | |
| C 61 4_301.7 | 301.7 | 9.3 | 1600 | 1.7 | 3130 | 16000 | 4.6 | 1600 | 0.85 | 3500 | 16000 | |
| C 61 4_337.7 | 337.7 | 8.3 | 1600 | 1.5 | 3160 | 16000 | 4.1 | 1600 | 0.76 | 3500 | 16000 | |
| C 61 4_370.1 | 370.1 | 7.6 | 1600 | 1.4 | 3180 | 16000 | 3.8 | 1600 | 0.70 | 3500 | 16000 | |
| C 61 4_421.5 | 421.5 | 6.6 | 1600 | 1.2 | 3200 | 16000 | 3.3 | 1600 | 0.61 | 3500 | 16000 | |
| C 61 4_462.0 | 462.0 | 6.1 | 1600 | 1.1 | 3220 | 16000 | 3.0 | 1600 | 0.56 | 3500 | 16000 | |
| C 61 4_521.1 | 521.1 | 5.4 | 1600 | 0.99 | 3240 | 16000 | 2.7 | 1600 | 0.49 | 3500 | 16000 | |
| C 61 4_571.2 | 571.2 | 4.9 | 1600 | 0.90 | 3250 | 16000 | 2.5 | 1600 | 0.45 | 3500 | 16000 | |
| C 61 4_610.1 | 610.1 | 4.6 | 1600 | 0.84 | 3260 | 16000 | 2.3 | 1600 | 0.42 | 3500 | 16000 | |
| C 61 4_668.8 | 668.8 | 4.2 | 1600 | 0.77 | 3280 | 16000 | 2.1 | 1600 | 0.39 | 3500 | 16000 | |
| C 61 4_726.3 | 726.3 | 3.9 | 1600 | 0.71 | 3290 | 16000 | 1.9 | 1600 | 0.35 | 3500 | 16000 | |
| C 61 4_796.1 | 796.1 | 3.5 | 1600 | 0.65 | 3300 | 16000 | 1.8 | 1600 | 0.32 | 3500 | 16000 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



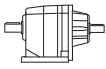

C 61 1600 Nm

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 61 2_2.8 | 2.8 | 321 | 565 | 20 | 2840 | 7150 | 179 | 665 | 13.1 | 4050 | 8790 | 152 |
| C 61 2_3.7 | 3.7 | 243 | 625 | 16.8 | 3000 | 7800 | 135 | 665 | 9.9 | 4700 | 9860 | |
| C 61 2_4.6 | 4.6 | 196 | 665 | 14.3 | 3170 | 8380 | 109 | 665 | 8.0 | 4700 | 10760 | |
| C 61 2_6.0 | 6.0 | 150 | 665 | 11.0 | 4120 | 9440 | 83 | 665 | 6.1 | 4700 | 12000 | |
| C 61 2_6.7 | 6.7 | 134 | 1350 | 20 | 2850 | 8050 | 75 | 1350 | 11.1 | 4700 | 10800 | |
| C 61 2_7.5 | 7.5 | 120 | 1350 | 17.9 | 4010 | 8560 | 67 | 1350 | 9.9 | 4700 | 11400 | |
| C 61 2_8.8 | 8.8 | 102 | 1350 | 15.2 | 4070 | 9240 | 57 | 1350 | 8.5 | 4700 | 12200 | |
| C 61 2_9.8 | 9.8 | 92 | 1350 | 13.7 | 4310 | 9790 | 51 | 1350 | 7.6 | 4700 | 12900 | |
| C 61 2_10.9 | 10.9 | 83 | 1350 | 12.3 | 4270 | 10200 | 46 | 1350 | 6.8 | 4700 | 13400 | |
| C 61 2_12.1 | 12.1 | 74 | 1350 | 11.1 | 4480 | 10800 | 41 | 1350 | 6.1 | 4700 | 14100 | |
| C 61 2_14.3 | 14.3 | 63 | 1350 | 9.4 | 4470 | 11600 | 35 | 1350 | 5.2 | 4700 | 15100 | |
| C 61 2_15.9 | 15.9 | 57 | 1350 | 8.4 | 4660 | 12300 | 31 | 1350 | 4.7 | 4700 | 15900 | |
| C 61 2_17.7 | 17.7 | 51 | 1350 | 7.6 | 4580 | 12800 | 28.2 | 1350 | 4.2 | 4700 | 16000 | |
| C 61 2_19.6 | 19.6 | 46 | 1350 | 6.8 | 4700 | 13500 | 25.5 | 1350 | 3.8 | 4700 | 16000 | |
| C 61 2_22.4 | 22.4 | 40 | 1350 | 6.0 | 4690 | 14200 | 22.3 | 1350 | 3.3 | 4700 | 16000 | |
| C 61 2_24.8 | 24.8 | 36 | 1350 | 5.4 | 4700 | 14900 | 20.2 | 1350 | 3.0 | 4700 | 16000 | |
| C 61 2_27.4 | 27.4 | 33 | 1350 | 4.9 | 4700 | 15500 | 18.2 | 1350 | 2.7 | 4700 | 16000 | |
| C 61 2_30.4 | 30.4 | 29.6 | 1350 | 4.4 | 4700 | 16000 | 16.4 | 1350 | 2.4 | 4700 | 16000 | |
| C 61 2_34.2 | 34.2 | 26.3 | 1265 | 3.7 | 4700 | 16000 | 14.6 | 1325 | 2.1 | 4700 | 16000 | |
| C 61 2_38.0 | 38.0 | 23.7 | 1350 | 3.5 | 4700 | 16000 | 13.2 | 1350 | 2.0 | 4700 | 16000 | |
| C 61 3_26.8 | 26.8 | 34 | 1600 | 6.0 | 4700 | 14500 | 18.7 | 1600 | 3.4 | 4700 | 16000 | |
| C 61 3_29.4 | 29.4 | 31 | 1600 | 5.5 | 4700 | 15200 | 17.0 | 1600 | 3.1 | 4700 | 16000 | |
| C 61 3_33.0 | 33.0 | 27.3 | 1600 | 4.9 | 4700 | 15900 | 15.2 | 1600 | 2.7 | 4700 | 16000 | |
| C 61 3_36.1 | 36.1 | 24.9 | 1600 | 4.5 | 4700 | 16000 | 13.9 | 1600 | 2.5 | 4700 | 16000 | |
| C 61 3_43.4 | 43.4 | 20.7 | 1600 | 3.7 | 4700 | 16000 | 11.5 | 1600 | 2.1 | 4700 | 16000 | |
| C 61 3_47.6 | 47.6 | 18.9 | 1600 | 3.4 | 4700 | 16000 | 10.5 | 1600 | 1.9 | 4700 | 16000 | |
| C 61 3_53.5 | 53.5 | 16.8 | 1600 | 3.0 | 4700 | 16000 | 9.3 | 1600 | 1.7 | 4700 | 16000 | |
| C 61 3_58.6 | 58.6 | 15.4 | 1600 | 2.8 | 4700 | 16000 | 8.5 | 1600 | 1.5 | 4700 | 16000 | |
| C 61 3_67.7 | 67.7 | 13.3 | 1600 | 2.4 | 4700 | 16000 | 7.4 | 1600 | 1.3 | 4700 | 16000 | |
| C 61 3_74.2 | 74.2 | 12.1 | 1600 | 2.2 | 4700 | 16000 | 6.7 | 1600 | 1.2 | 4700 | 16000 | |
| C 61 3_83.0 | 83.0 | 10.8 | 1600 | 2.0 | 4700 | 16000 | 6.0 | 1600 | 1.1 | 4700 | 16000 | |
| C 61 3_91.0 | 91.0 | 9.9 | 1600 | 1.8 | 4700 | 16000 | 5.5 | 1600 | 0.99 | 4700 | 16000 | |
| C 61 3_103.6 | 103.6 | 8.7 | 1600 | 1.6 | 4700 | 16000 | 4.8 | 1600 | 0.87 | 4700 | 16000 | |
| C 61 3_113.6 | 113.6 | 7.9 | 1600 | 1.4 | 4700 | 16000 | 4.4 | 1600 | 0.79 | 4700 | 16000 | |
| C 61 3_128.1 | 128.1 | 7.0 | 1600 | 1.3 | 4700 | 16000 | 3.9 | 1600 | 0.70 | 4700 | 16000 | |
| C 61 3_140.5 | 140.5 | 6.4 | 1600 | 1.2 | 4700 | 16000 | 3.6 | 1600 | 0.64 | 4700 | 16000 | |
| C 61 3_150.0 | 150.0 | 6.0 | 1600 | 1.1 | 4700 | 16000 | 3.3 | 1600 | 0.60 | 4700 | 16000 | |
| C 61 3_164.5 | 164.5 | 5.5 | 1600 | 0.99 | 4700 | 16000 | 3.0 | 1600 | 0.55 | 4700 | 16000 | |
| C 61 3_178.6 | 178.6 | 5.0 | 1600 | 0.91 | 4700 | 16000 | 2.8 | 1600 | 0.50 | 4700 | 16000 | |
| C 61 3_195.8 | 195.8 | 4.6 | 1600 | 0.83 | 4700 | 16000 | 2.6 | 1600 | 0.46 | 4700 | 16000 | |
| C 61 4_217.4 | 217.4 | 4.1 | 1600 | 0.76 | 3500 | 16000 | 2.3 | 1600 | 0.42 | 3500 | 16000 | |
| C 61 4_238.3 | 238.3 | 3.8 | 1600 | 0.70 | 3500 | 16000 | 2.1 | 1600 | 0.39 | 3500 | 16000 | |
| C 61 4_275.3 | 275.3 | 3.3 | 1600 | 0.60 | 3500 | 16000 | 1.8 | 1600 | 0.33 | 3500 | 16000 | |
| C 61 4_301.7 | 301.7 | 3.0 | 1600 | 0.55 | 3500 | 16000 | 1.7 | 1600 | 0.31 | 3500 | 16000 | |
| C 61 4_337.7 | 337.7 | 2.7 | 1600 | 0.49 | 3500 | 16000 | 1.5 | 1600 | 0.27 | 3500 | 16000 | |
| C 61 4_370.1 | 370.1 | 2.4 | 1600 | 0.45 | 3500 | 16000 | 1.4 | 1600 | 0.25 | 3500 | 16000 | |
| C 61 4_421.5 | 421.5 | 2.1 | 1600 | 0.39 | 3500 | 16000 | 1.2 | 1600 | 0.22 | 3500 | 16000 | |
| C 61 4_462.0 | 462.0 | 1.9 | 1600 | 0.36 | 3500 | 16000 | 1.1 | 1600 | 0.20 | 3500 | 16000 | |
| C 61 4_521.1 | 521.1 | 1.7 | 1600 | 0.32 | 3500 | 16000 | 1.0 | 1600 | 0.18 | 3500 | 16000 | |
| C 61 4_571.2 | 571.2 | 1.6 | 1600 | 0.29 | 3500 | 16000 | 0.88 | 1600 | 0.16 | 3500 | 16000 | |
| C 61 4_610.1 | 610.1 | 1.5 | 1600 | 0.27 | 3500 | 16000 | 0.82 | 1600 | 0.15 | 3500 | 16000 | |
| C 61 4_668.8 | 668.8 | 1.3 | 1600 | 0.25 | 3500 | 16000 | 0.75 | 1600 | 0.14 | 3500 | 16000 | |
| C 61 4_726.3 | 726.3 | 1.2 | 1600 | 0.23 | 3500 | 16000 | 0.69 | 1600 | 0.13 | 3500 | 16000 | |
| C 61 4_796.1 | 796.1 | 1.1 | 1600 | 0.21 | 3500 | 16000 | 0.63 | 1600 | 0.12 | 3500 | 16000 | |



C 70

2300 Nm

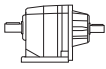

|  | i | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | |  |
|---|-------|-------------------------------|----------------|----------------|---------------|---------------|-------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 70 2_4.6 | 4.6 | 613 | 1400 | 95 | — | 5590 | 306 | 1700 | 57 | — | 7100 | |
| C 70 2_5.9 | 5.9 | 479 | 1550 | 82 | — | 5610 | 239 | 1900 | 50 | — | 6990 | |
| C 70 2_6.3 | 6.3 | 448 | 1600 | 79 | 1980 | 6570 | 224 | 1950 | 48 | 2630 | 8250 | |
| C 70 2_7.5 | 7.5 | 375 | 1550 | 64 | — | 7130 | 188 | 1950 | 40 | — | 8400 | |
| C 70 2_8.0 | 8.0 | 350 | 1750 | 68 | 1760 | 6840 | 175 | 2100 | 41 | 2670 | 8880 | |
| C 70 2_9.5 | 9.5 | 294 | 1600 | 52 | 770 | 8260 | 147 | 2000 | 32 | 620 | 9910 | |
| C 70 2_10.2 | 10.2 | 274 | 1900 | 57 | 2000 | 7200 | 137 | 2100 | 32 | 4470 | 10800 | |
| C 70 2_11.2 | 11.2 | 250 | 1600 | 44 | 1130 | 9350 | 125 | 2000 | 28 | 1070 | 11300 | |
| C 70 2_13.0 | 13.0 | 215 | 2050 | 49 | 1860 | 7700 | 107 | 2100 | 25 | 5600 | 12900 | |
| C 70 2_14.1 | 14.1 | 199 | 1700 | 37 | 1100 | 10100 | 99 | 2100 | 23 | 1280 | 12400 | |
| C 70 2_15.3 | 15.3 | 183 | 2100 | 42 | 1810 | 8540 | 91 | 2100 | 21 | 5860 | 14300 | |
| C 70 2_16.7 | 16.7 | 168 | 1700 | 31 | 1570 | 11400 | 84 | 2050 | 18.9 | 2350 | 14300 | |
| C 70 2_19.3 | 19.3 | 145 | 2100 | 34 | 2730 | 10400 | 73 | 2100 | 16.8 | 6000 | 16300 | |
| C 70 2_22.9 | 22.9 | 123 | 2100 | 28 | 3160 | 11800 | 61 | 2100 | 14.2 | 6060 | 18000 | |
| C 70 2_27.7 | 27.7 | 101 | 2100 | 23 | 3570 | 13400 | 51 | 2100 | 11.7 | 6120 | 19900 | |
| C 70 2_34.7 | 34.7 | 81 | 2100 | 18.7 | 3960 | 15400 | 40 | 2100 | 9.3 | 6180 | 22200 | |
| C 70 3_41.3 | 41.3 | 68 | 1900 | 14.5 | 5670 | 18400 | 34 | 2300 | 8.8 | 7000 | 22800 | |
| C 70 3_44.7 | 44.7 | 63 | 1900 | 13.4 | 5700 | 19100 | 31 | 2300 | 8.1 | 7000 | 23800 | |
| C 70 3_52.2 | 52.2 | 54 | 2050 | 12.4 | 5680 | 19600 | 26.8 | 2300 | 7.0 | 7000 | 25000 | |
| C 70 3_56.5 | 56.5 | 50 | 2050 | 11.4 | 5710 | 20400 | 24.8 | 2300 | 6.4 | 7000 | 25000 | |
| C 70 3_65.9 | 65.9 | 43 | 2200 | 10.5 | 5670 | 21000 | 21.3 | 2300 | 5.5 | 7000 | 25000 | |
| C 70 3_71.3 | 71.3 | 39 | 2200 | 9.7 | 5710 | 21900 | 19.6 | 2300 | 5.1 | 7000 | 25000 | |
| C 70 3_81.4 | 81.4 | 34 | 2300 | 8.9 | 5680 | 22700 | 17.2 | 2300 | 4.5 | 7000 | 25000 | |
| C 70 3_88.2 | 88.2 | 32 | 2300 | 8.2 | 5710 | 23600 | 15.9 | 2300 | 4.1 | 7000 | 25000 | |
| C 70 3_103.8 | 103.8 | 27.0 | 2300 | 7.0 | 5700 | 25000 | 13.5 | 2300 | 3.5 | 7000 | 25000 | |
| C 70 3_112.4 | 112.4 | 24.9 | 2300 | 6.4 | 5740 | 25000 | 12.5 | 2300 | 3.2 | 7000 | 25000 | |
| C 70 3_126.8 | 126.8 | 22.1 | 2300 | 5.7 | 5720 | 25000 | 11.0 | 2300 | 2.9 | 7000 | 25000 | |
| C 70 3_137.4 | 137.4 | 20.4 | 2300 | 5.3 | 5750 | 25000 | 10.2 | 2300 | 2.6 | 7000 | 25000 | |
| C 70 3_150.3 | 150.3 | 18.6 | 2300 | 4.8 | 5730 | 25000 | 9.3 | 2300 | 2.4 | 7000 | 25000 | |
| C 70 3_162.8 | 162.8 | 17.2 | 2300 | 4.5 | 5760 | 25000 | 8.6 | 2300 | 2.2 | 7000 | 25000 | |
| C 70 3_179.2 | 179.2 | 15.6 | 2300 | 4.0 | 5740 | 25000 | 7.8 | 2300 | 2.0 | 7000 | 25000 | |
| C 70 3_194.1 | 194.1 | 14.4 | 2300 | 3.7 | 5770 | 25000 | 7.2 | 2300 | 1.9 | 7000 | 25000 | |
| C 70 3_220.9 | 220.9 | 12.7 | 2250 | 3.2 | 5750 | 25000 | 6.3 | 2250 | 1.6 | 7000 | 25000 | |
| C 70 3_239.3 | 239.3 | 11.7 | 2300 | 3.0 | 5770 | 25000 | 5.8 | 2300 | 1.5 | 7000 | 25000 | |
| C 70 4_251.3 | 251.3 | 11.1 | 2300 | 2.9 | 2000 | 25000 | 5.6 | 2300 | 1.5 | 2620 | 25000 | |
| C 70 4_272.2 | 272.2 | 10.3 | 2300 | 2.7 | 2030 | 25000 | 5.1 | 2300 | 1.4 | 2650 | 25000 | |
| C 70 4_317.9 | 317.9 | 8.8 | 2300 | 2.3 | 2030 | 25000 | 4.4 | 2300 | 1.2 | 2650 | 25000 | |
| C 70 4_344.3 | 344.3 | 8.1 | 2300 | 2.2 | 2050 | 25000 | 4.1 | 2300 | 1.1 | 2670 | 25000 | |
| C 70 4_409.4 | 409.4 | 6.8 | 2300 | 1.8 | 2050 | 25000 | 3.4 | 2300 | 0.90 | 2670 | 25000 | |
| C 70 4_443.5 | 443.5 | 6.3 | 2300 | 1.7 | 2070 | 25000 | 3.2 | 2300 | 0.80 | 2700 | 25000 | |
| C 70 4_512.0 | 512.0 | 5.5 | 2300 | 1.4 | 2070 | 25000 | 2.7 | 2300 | 0.70 | 2680 | 25000 | |
| C 70 4_554.7 | 554.7 | 5.0 | 2300 | 1.3 | 2090 | 25000 | 2.5 | 2300 | 0.70 | 2710 | 25000 | |
| C 70 4_606.8 | 606.8 | 4.6 | 2300 | 1.2 | 2080 | 25000 | 2.3 | 2300 | 0.60 | 2700 | 25000 | |
| C 70 4_657.3 | 657.3 | 4.3 | 2300 | 1.1 | 2100 | 25000 | 2.1 | 2300 | 0.60 | 2720 | 25000 | |
| C 70 4_736.0 | 736.0 | 3.8 | 2300 | 1.0 | 2090 | 25000 | 1.9 | 2300 | 0.50 | 2700 | 25000 | |
| C 70 4_797.3 | 797.3 | 3.5 | 2300 | 0.90 | 2110 | 25000 | 1.8 | 2300 | 0.50 | 2720 | 25000 | |
| C 70 4_922.6 | 922.6 | 3.0 | 2300 | 0.80 | 2100 | 25000 | 1.5 | 2300 | 0.40 | 2710 | 25000 | |
| C 70 4_999.5 | 999.5 | 2.8 | 2300 | 0.70 | 2110 | 25000 | 1.4 | 2300 | 0.40 | 2730 | 25000 | |
| C 70 4_1069 | 1069 | 2.6 | 2300 | 0.70 | 2100 | 25000 | 1.3 | 2300 | 0.30 | 2720 | 25000 | |
| C 70 4_1158 | 1158 | 2.4 | 2300 | 0.60 | 2100 | 25000 | 1.2 | 2300 | 0.30 | 2800 | 25000 | |
| C 70 4_1362 | 1362 | 2.1 | 2300 | 0.50 | 2100 | 25000 | 1.0 | 2300 | 0.30 | 2800 | 25000 | |
| C 70 4_1476 | 1476 | 1.9 | 2300 | 0.50 | 2100 | 25000 | 0.90 | 2300 | 0.30 | 2800 | 25000 | |

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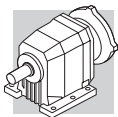
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



C 70 2300 Nm

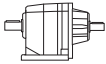

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 70 2_4.6 | 4.6 | 197 | 1800 | 39 | 650 | 9360 | 109 | 1800 | 22 | 5500 | 13900 | |
| C 70 2_5.9 | 5.9 | 154 | 1950 | 33 | 560 | 9980 | 85 | 2150 | 20 | 2890 | 13400 | |
| C 70 2_6.3 | 6.3 | 144 | 2100 | 33 | 4260 | 10400 | 80 | 2100 | 18.5 | 7000 | 15500 | |
| C 70 2_7.5 | 7.5 | 121 | 2100 | 28 | 1120 | 10800 | 67 | 2150 | 15.9 | 5400 | 15600 | |
| C 70 2_8.0 | 8.0 | 113 | 2100 | 26 | 5800 | 12500 | 63 | 2100 | 14.5 | 7000 | 17800 | |
| C 70 2_9.5 | 9.5 | 95 | 2150 | 22 | 2140 | 12400 | 53 | 2150 | 12.4 | 6990 | 18100 | |
| C 70 2_10.2 | 10.2 | 88 | 2100 | 20 | 6870 | 14600 | 49 | 2100 | 11.3 | 7000 | 20200 | |
| C 70 2_11.2 | 11.2 | 80 | 2150 | 19.0 | 2620 | 14000 | 45 | 2150 | 10.6 | 7000 | 19800 | |
| C 70 2_13.0 | 13.0 | 69 | 2100 | 16.0 | 7000 | 16900 | 38 | 2100 | 8.9 | 7000 | 22800 | |
| C 70 2_14.1 | 14.1 | 64 | 2150 | 15.1 | 3900 | 16000 | 35 | 2150 | 8.4 | 7000 | 22300 | |
| C 70 2_15.3 | 15.3 | 59 | 2100 | 13.6 | 7000 | 18400 | 33 | 2100 | 7.5 | 7000 | 24600 | |
| C 70 2_16.7 | 16.7 | 54 | 2050 | 12.2 | 5470 | 18500 | 29.9 | 2050 | 6.8 | 7000 | 25000 | |
| C 70 2_19.3 | 19.3 | 47 | 2100 | 10.8 | 7000 | 20700 | 25.9 | 2100 | 6.0 | 7000 | 25000 | |
| C 70 2_22.9 | 22.9 | 39 | 2100 | 9.1 | 7000 | 22500 | 21.9 | 2100 | 5.1 | 7000 | 25000 | |
| C 70 2_27.7 | 27.7 | 32 | 2100 | 7.5 | 7000 | 24600 | 18.0 | 2100 | 4.2 | 7000 | 25000 | |
| C 70 2_34.7 | 34.7 | 25.9 | 2100 | 6.0 | 7000 | 25000 | 14.4 | 2100 | 3.3 | 7000 | 25000 | |
| C 70 3_41.3 | 41.3 | 21.8 | 2300 | 5.6 | 7000 | 25000 | 12.1 | 2300 | 3.1 | 7000 | 25000 | |
| C 70 3_44.7 | 44.7 | 20.1 | 2300 | 5.2 | 7000 | 25000 | 11.2 | 2300 | 2.9 | 7000 | 25000 | |
| C 70 3_52.2 | 52.2 | 17.3 | 2300 | 4.5 | 7000 | 25000 | 9.6 | 2300 | 2.5 | 7000 | 25000 | |
| C 70 3_56.5 | 56.5 | 15.9 | 2300 | 4.1 | 7000 | 25000 | 8.8 | 2300 | 2.3 | 7000 | 25000 | |
| C 70 3_65.9 | 65.9 | 13.7 | 2300 | 3.5 | 7000 | 25000 | 7.6 | 2300 | 2.0 | 7000 | 25000 | |
| C 70 3_71.3 | 71.3 | 12.6 | 2300 | 3.3 | 7000 | 25000 | 7.0 | 2300 | 1.8 | 7000 | 25000 | |
| C 70 3_81.4 | 81.4 | 11.1 | 2300 | 2.9 | 7000 | 25000 | 6.1 | 2300 | 1.6 | 7000 | 25000 | |
| C 70 3_88.2 | 88.2 | 10.2 | 2300 | 2.6 | 7000 | 25000 | 5.7 | 2300 | 1.5 | 7000 | 25000 | |
| C 70 3_103.8 | 103.8 | 8.7 | 2300 | 2.2 | 7000 | 25000 | 4.8 | 2300 | 1.2 | 7000 | 25000 | |
| C 70 3_112.4 | 112.4 | 8.0 | 2300 | 2.1 | 7000 | 25000 | 4.4 | 2300 | 1.2 | 7000 | 25000 | |
| C 70 3_126.8 | 126.8 | 7.1 | 2300 | 1.8 | 7000 | 25000 | 3.9 | 2300 | 1.0 | 7000 | 25000 | |
| C 70 3_137.4 | 137.4 | 6.6 | 2300 | 1.7 | 7000 | 25000 | 3.6 | 2300 | 0.90 | 7000 | 25000 | |
| C 70 3_150.3 | 150.3 | 6.0 | 2300 | 1.6 | 7000 | 25000 | 3.3 | 2300 | 0.90 | 7000 | 25000 | |
| C 70 3_162.8 | 162.8 | 5.5 | 2300 | 1.4 | 7000 | 25000 | 3.1 | 2300 | 0.80 | 7000 | 25000 | |
| C 70 3_179.2 | 179.2 | 5.0 | 2300 | 1.3 | 7000 | 25000 | 2.8 | 2300 | 0.70 | 7000 | 25000 | |
| C 70 3_194.1 | 194.1 | 4.6 | 2300 | 1.2 | 7000 | 25000 | 2.6 | 2300 | 0.70 | 7000 | 25000 | |
| C 70 3_220.9 | 220.9 | 4.1 | 2250 | 1.0 | 7000 | 25000 | 2.3 | 2250 | 0.60 | 7000 | 25000 | |
| C 70 3_239.3 | 239.3 | 3.8 | 2300 | 1.0 | 7000 | 25000 | 2.1 | 2300 | 0.50 | 7000 | 25000 | |
| C 70 4_251.3 | 251.3 | 3.6 | 2300 | 0.90 | 2000 | 25000 | 2.0 | 2300 | 0.50 | 2620 | 25000 | |
| C 70 4_272.2 | 272.2 | 3.3 | 2300 | 0.90 | 2030 | 25000 | 1.8 | 2300 | 0.50 | 2650 | 25000 | |
| C 70 4_317.9 | 317.9 | 2.8 | 2300 | 0.70 | 2030 | 25000 | 1.6 | 2300 | 0.40 | 2650 | 25000 | |
| C 70 4_344.3 | 344.3 | 2.6 | 2300 | 0.70 | 2050 | 25000 | 1.5 | 2300 | 0.40 | 2670 | 25000 | |
| C 70 4_409.4 | 409.4 | 2.2 | 2300 | 0.60 | 2050 | 25000 | 1.2 | 2300 | 0.30 | 2670 | 25000 | |
| C 70 4_443.5 | 443.5 | 2.0 | 2300 | 0.50 | 2070 | 25000 | 1.1 | 2300 | 0.30 | 2700 | 25000 | |
| C 70 4_512.0 | 512.0 | 1.8 | 2300 | 0.50 | 2070 | 25000 | 1.0 | 2300 | 0.30 | 2680 | 25000 | |
| C 70 4_554.7 | 554.7 | 1.6 | 2300 | 0.40 | 2090 | 25000 | 0.90 | 2300 | 0.20 | 2710 | 25000 | |
| C 70 4_606.8 | 606.8 | 1.5 | 2300 | 0.40 | 2080 | 25000 | 0.80 | 2300 | 0.20 | 2700 | 25000 | |
| C 70 4_657.3 | 657.3 | 1.4 | 2300 | 0.40 | 2100 | 25000 | 0.80 | 2300 | 0.20 | 2720 | 25000 | |
| C 70 4_736.0 | 736.0 | 1.2 | 2300 | 0.30 | 2090 | 25000 | 0.70 | 2300 | 0.20 | 2700 | 25000 | |
| C 70 4_797.3 | 797.3 | 1.1 | 2300 | 0.30 | 2110 | 25000 | 0.60 | 2300 | 0.20 | 2720 | 25000 | |
| C 70 4_922.6 | 922.6 | 1.0 | 2300 | 0.30 | 2100 | 25000 | 0.50 | 2300 | 0.10 | 2710 | 25000 | |
| C 70 4_999.5 | 999.5 | 0.90 | 2300 | 0.20 | 2110 | 25000 | 0.50 | 2300 | 0.10 | 2730 | 25000 | |
| C 70 4_1069 | 1069 | 0.80 | 2300 | 0.20 | 2100 | 25000 | 0.50 | 2300 | 0.10 | 2720 | 25000 | |
| C 70 4_1158 | 1158 | 0.80 | 2300 | 0.20 | 2100 | 25000 | 0.40 | 2300 | 0.10 | 2800 | 25000 | |
| C 70 4_1362 | 1362 | 0.70 | 2300 | 0.20 | 2100 | 25000 | 0.40 | 2300 | 0.10 | 2800 | 25000 | |
| C 70 4_1476 | 1476 | 0.60 | 2300 | 0.20 | 2100 | 25000 | 0.30 | 2300 | 0.10 | 2800 | 25000 | |

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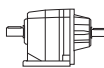

C 80

4000 Nm

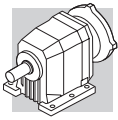
|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| C 80 2_5.6 | 5.6 | 496 | 2400 | 131 | 370 | 10900 | 248 | 3100 | 85 | 690 | 12300 | 158 |
| C 80 2_6.1 | 6.1 | 458 | 2450 | 124 | 890 | 11000 | 229 | 3150 | 80 | 1380 | 12700 | |
| C 80 2_7.0 | 7.0 | 398 | 2650 | 116 | 350 | 11000 | 199 | 3350 | 73 | 910 | 12900 | |
| C 80 2_7.6 | 7.6 | 367 | 2700 | 109 | 890 | 11300 | 183 | 3400 | 69 | 1600 | 13300 | |
| C 80 2_8.9 | 8.9 | 316 | 2800 | 98 | 420 | 12100 | 158 | 3500 | 61 | 1120 | 14500 | |
| C 80 2_9.6 | 9.6 | 292 | 3000 | 96 | 520 | 11300 | 146 | 3700 | 59 | 1380 | 13900 | |
| C 80 2_11.1 | 11.1 | 252 | 2800 | 78 | 1110 | 14200 | 126 | 3500 | 49 | 1950 | 17100 | |
| C 80 2_12.0 | 12.0 | 233 | 3000 | 77 | 1200 | 13500 | 116 | 3700 | 48 | 2190 | 16600 | |
| C 80 2_13.8 | 13.8 | 203 | 2800 | 63 | 1420 | 16400 | 102 | 3500 | 39 | 2330 | 19800 | |
| C 80 2_14.9 | 14.9 | 188 | 3000 | 62 | 1510 | 15800 | 94 | 3700 | 38 | 2560 | 19300 | |
| C 80 2_16.7 | 16.7 | 168 | 2800 | 52 | 1840 | 18500 | 84 | 3500 | 32 | 2840 | 22300 | |
| C 80 2_18.1 | 18.1 | 155 | 3000 | 50 | 1930 | 17900 | 78 | 3700 | 32 | 3060 | 22000 | |
| C 80 2_20.5 | 20.5 | 136 | 2850 | 43 | 2000 | 20500 | 68 | 3550 | 27 | 3060 | 24800 | |
| C 80 2_22.2 | 22.2 | 126 | 3000 | 42 | 2210 | 20300 | 63 | 3700 | 26 | 3400 | 24900 | |
| C 80 2_24.0 | 24.0 | 117 | 2850 | 37 | 2090 | 22400 | 58 | 3550 | 23 | 3180 | 27000 | |
| C 80 2_25.9 | 25.9 | 108 | 3000 | 36 | 2300 | 22300 | 54 | 3700 | 22 | 3510 | 27200 | |
| C 80 2_31.3 | 31.3 | 89 | 3000 | 30 | 2480 | 24700 | 45 | 3700 | 18.2 | 3730 | 30000 | |
| C 80 2_39.1 | 39.1 | 72 | 2500 | 19.7 | 3820 | 31000 | 36 | 3200 | 12.6 | 5060 | 35000 | |
| C 80 3_43.5 | 43.5 | 64 | 3100 | 23 | 5610 | 28700 | 32 | 3800 | 13.8 | 7000 | 34800 | |
| C 80 3_47.4 | 47.4 | 59 | 3100 | 21 | 5660 | 30000 | 29.5 | 3800 | 12.6 | 7000 | 35000 | |
| C 80 3_57.3 | 57.3 | 49 | 3400 | 18.7 | 5620 | 30500 | 24.4 | 4000 | 11.0 | 7000 | 35000 | |
| C 80 3_62.5 | 62.5 | 45 | 3400 | 17.1 | 5670 | 31800 | 22.4 | 4000 | 10.1 | 7000 | 35000 | |
| C 80 3_70.5 | 70.5 | 40 | 3650 | 16.3 | 5620 | 32200 | 19.9 | 4000 | 8.9 | 7000 | 35000 | |
| C 80 3_76.9 | 76.9 | 36 | 3600 | 14.8 | 5670 | 33900 | 18.2 | 4000 | 8.2 | 7000 | 35000 | |
| C 80 3_89.3 | 89.3 | 31 | 3900 | 13.8 | 5620 | 34700 | 15.7 | 4000 | 7.1 | 7000 | 35000 | |
| C 80 3_97.4 | 97.4 | 28.7 | 3900 | 12.6 | 5670 | 35000 | 14.4 | 4000 | 6.5 | 7000 | 35000 | |
| C 80 3_109.5 | 109.5 | 25.5 | 4000 | 11.5 | 5630 | 35000 | 12.8 | 4000 | 5.8 | 7000 | 35000 | |
| C 80 3_119.5 | 119.5 | 23.4 | 4000 | 10.6 | 5680 | 35000 | 11.7 | 4000 | 5.3 | 7000 | 35000 | |
| C 80 3_136.7 | 136.7 | 20.5 | 4000 | 9.2 | 5660 | 35000 | 10.2 | 4000 | 4.6 | 7000 | 35000 | |
| C 80 3_149.1 | 149.1 | 18.8 | 4000 | 8.5 | 5700 | 35000 | 9.4 | 4000 | 4.2 | 7000 | 35000 | |
| C 80 3_169.0 | 169.0 | 16.6 | 4000 | 7.5 | 5680 | 35000 | 8.3 | 4000 | 3.7 | 7000 | 35000 | |
| C 80 3_184.4 | 184.4 | 15.2 | 4000 | 6.8 | 5720 | 35000 | 7.6 | 4000 | 3.4 | 7000 | 35000 | |
| C 80 3_197.9 | 197.9 | 14.2 | 3800 | 6.1 | 5710 | 35000 | 7.1 | 3800 | 3.0 | 7000 | 35000 | |
| C 80 3_215.8 | 215.8 | 13.0 | 4000 | 5.8 | 5730 | 35000 | 6.5 | 4000 | 2.9 | 7000 | 35000 | |
| C 80 4_261.9 | 261.9 | 10.7 | 4000 | 4.9 | 1850 | 35000 | 5.3 | 4000 | 2.5 | 2470 | 35000 | |
| C 80 4_285.7 | 285.7 | 9.8 | 4000 | 4.5 | 1890 | 35000 | 4.9 | 4000 | 2.3 | 2510 | 35000 | |
| C 80 4_334.3 | 334.3 | 8.4 | 4000 | 3.9 | 1880 | 35000 | 4.2 | 4000 | 1.9 | 2500 | 35000 | |
| C 80 4_364.7 | 364.7 | 7.7 | 4000 | 3.5 | 1920 | 35000 | 3.8 | 4000 | 1.8 | 2540 | 35000 | |
| C 80 4_417.5 | 417.5 | 6.7 | 4000 | 3.1 | 1910 | 35000 | 3.4 | 4000 | 1.5 | 2530 | 35000 | |
| C 80 4_455.4 | 455.4 | 6.1 | 4000 | 2.8 | 1950 | 35000 | 3.1 | 4000 | 1.4 | 2570 | 35000 | |
| C 80 4_529.3 | 529.3 | 5.3 | 4000 | 2.4 | 1940 | 35000 | 2.6 | 4000 | 1.2 | 2550 | 35000 | |
| C 80 4_577.4 | 577.4 | 4.8 | 4000 | 2.2 | 1970 | 35000 | 2.4 | 4000 | 1.1 | 2590 | 35000 | |
| C 80 4_664.3 | 664.3 | 4.2 | 4000 | 1.9 | 1960 | 35000 | 2.1 | 4000 | 1.0 | 2570 | 35000 | |
| C 80 4_724.7 | 724.7 | 3.9 | 4000 | 1.8 | 1990 | 35000 | 1.9 | 4000 | 0.90 | 2610 | 35000 | |
| C 80 4_783.4 | 783.4 | 3.6 | 4000 | 1.6 | 1970 | 35000 | 1.8 | 4000 | 0.80 | 2590 | 35000 | |
| C 80 4_854.6 | 854.6 | 3.3 | 4000 | 1.5 | 2000 | 35000 | 1.6 | 4000 | 0.80 | 2620 | 35000 | |
| C 80 4_945.7 | 945.7 | 3.0 | 4000 | 1.4 | 1980 | 35000 | 1.5 | 4000 | 0.70 | 2600 | 35000 | |
| C 80 4_1032 | 1032 | 2.7 | 4000 | 1.2 | 2010 | 35000 | 1.4 | 4000 | 0.60 | 2630 | 35000 | |
| C 80 4_1168 | 1168 | 2.4 | 4000 | 1.1 | 1980 | 35000 | 1.2 | 4000 | 0.60 | 2600 | 35000 | |
| C 80 4_1274 | 1274 | 2.2 | 4000 | 1.0 | 2020 | 35000 | 1.1 | 4000 | 0.50 | 2640 | 35000 | |
| C 80 4_1358 | 1358 | 2.1 | 4000 | 0.90 | 1990 | 35000 | 1.0 | 4000 | 0.50 | 2610 | 35000 | |
| C 80 4_1481 | 1481 | 1.9 | 4000 | 0.90 | 2030 | 35000 | 0.90 | 4000 | 0.40 | 2640 | 35000 | |



C 80 4000 Nm

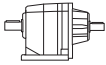

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 80 2_5.6 | 5.6 | 160 | 3500 | 62 | 1480 | 14400 | 89 | 3500 | 34 | 4970 | 21600 | |
| C 80 2_6.1 | 6.1 | 147 | 3600 | 58 | 2100 | 14400 | 82 | 3700 | 33 | 5270 | 21200 | |
| C 80 2_7.0 | 7.0 | 128 | 3500 | 49 | 2630 | 17000 | 71 | 3500 | 27 | 6130 | 24600 | |
| C 80 2_7.6 | 7.6 | 118 | 3650 | 47 | 3060 | 16800 | 66 | 3650 | 26 | 6550 | 24600 | |
| C 80 2_8.9 | 8.9 | 102 | 3500 | 39 | 3330 | 19900 | 56 | 3500 | 22 | 6800 | 27800 | |
| C 80 2_9.6 | 9.6 | 94 | 3700 | 38 | 3590 | 19400 | 52 | 3700 | 21 | 7000 | 27700 | |
| C 80 2_11.1 | 11.1 | 81 | 3500 | 31 | 4160 | 22800 | 45 | 3500 | 17.4 | 7000 | 31200 | |
| C 80 2_12.0 | 12.0 | 75 | 3700 | 31 | 4400 | 22500 | 42 | 3700 | 17.0 | 7000 | 31200 | |
| C 80 2_13.8 | 13.8 | 65 | 3500 | 25 | 4540 | 25700 | 36 | 3500 | 14.0 | 7000 | 34700 | |
| C 80 2_14.9 | 14.9 | 60 | 3700 | 25 | 4770 | 25500 | 34 | 3700 | 13.7 | 7000 | 34700 | |
| C 80 2_16.7 | 16.7 | 54 | 3500 | 21 | 5050 | 28500 | 30 | 3500 | 11.6 | 7000 | 35000 | |
| C 80 2_18.1 | 18.1 | 50 | 3700 | 20 | 5280 | 28400 | 27.7 | 3700 | 11.3 | 7000 | 35000 | |
| C 80 2_20.5 | 20.5 | 44 | 3550 | 17.2 | 5270 | 31400 | 24.4 | 3550 | 9.5 | 7000 | 35000 | |
| C 80 2_22.2 | 22.2 | 40 | 3700 | 16.5 | 5610 | 31600 | 22.5 | 3700 | 9.2 | 7000 | 35000 | |
| C 80 2_24.0 | 24.0 | 38 | 3550 | 14.7 | 5390 | 33800 | 20.9 | 3550 | 8.2 | 7000 | 35000 | |
| C 80 2_25.9 | 25.9 | 35 | 3700 | 14.1 | 5730 | 34200 | 19.3 | 3700 | 7.9 | 7000 | 35000 | |
| C 80 2_31.3 | 31.3 | 28.7 | 3700 | 11.7 | 5940 | 35000 | 16.0 | 3700 | 6.5 | 7000 | 35000 | |
| C 80 2_39.1 | 39.1 | 23.0 | 3200 | 8.1 | 7000 | 35000 | 12.8 | 3200 | 4.5 | 7000 | 35000 | |
| C 80 3_43.5 | 43.5 | 20.7 | 4000 | 9.3 | 7000 | 35000 | 11.5 | 4000 | 5.2 | 7000 | 35000 | |
| C 80 3_47.4 | 47.4 | 19.0 | 4000 | 8.5 | 7000 | 35000 | 10.5 | 4000 | 4.7 | 7000 | 35000 | |
| C 80 3_57.3 | 57.3 | 15.7 | 4000 | 7.1 | 7000 | 35000 | 8.7 | 4000 | 3.9 | 7000 | 35000 | |
| C 80 3_62.5 | 62.5 | 14.4 | 4000 | 6.5 | 7000 | 35000 | 8.0 | 4000 | 3.6 | 7000 | 35000 | |
| C 80 3_70.5 | 70.5 | 12.8 | 4000 | 5.7 | 7000 | 35000 | 7.1 | 4000 | 3.2 | 7000 | 35000 | |
| C 80 3_76.9 | 76.9 | 11.7 | 4000 | 5.3 | 7000 | 35000 | 6.5 | 4000 | 2.9 | 7000 | 35000 | |
| C 80 3_89.3 | 89.3 | 10.1 | 4000 | 4.5 | 7000 | 35000 | 5.6 | 4000 | 2.5 | 7000 | 35000 | |
| C 80 3_97.4 | 97.4 | 9.2 | 4000 | 4.2 | 7000 | 35000 | 5.1 | 4000 | 2.3 | 7000 | 35000 | |
| C 80 3_109.5 | 109.5 | 8.2 | 4000 | 3.7 | 7000 | 35000 | 4.6 | 4000 | 2.1 | 7000 | 35000 | |
| C 80 3_119.5 | 119.5 | 7.5 | 4000 | 3.4 | 7000 | 35000 | 4.2 | 4000 | 1.9 | 7000 | 35000 | |
| C 80 3_136.7 | 136.7 | 6.6 | 4000 | 3.0 | 7000 | 35000 | 3.7 | 4000 | 1.6 | 7000 | 35000 | |
| C 80 3_149.1 | 149.1 | 6.0 | 4000 | 2.7 | 7000 | 35000 | 3.4 | 4000 | 1.5 | 7000 | 35000 | |
| C 80 3_169.0 | 169.0 | 5.3 | 4000 | 2.4 | 7000 | 35000 | 3.0 | 4000 | 1.3 | 7000 | 35000 | |
| C 80 3_184.4 | 184.4 | 4.9 | 4000 | 2.2 | 7000 | 35000 | 2.7 | 4000 | 1.2 | 7000 | 35000 | |
| C 80 3_197.9 | 197.9 | 4.5 | 3800 | 1.9 | 7000 | 35000 | 2.5 | 3800 | 1.1 | 7000 | 35000 | |
| C 80 3_215.8 | 215.8 | 4.2 | 4000 | 1.9 | 7000 | 35000 | 2.3 | 4000 | 1.0 | 7000 | 35000 | |
| C 80 4_261.9 | 261.9 | 3.4 | 4000 | 1.6 | 2950 | 35000 | 1.9 | 4000 | 0.90 | 3500 | 35000 | |
| C 80 4_285.7 | 285.7 | 3.2 | 4000 | 1.4 | 2990 | 35000 | 1.8 | 4000 | 0.80 | 3500 | 35000 | |
| C 80 4_334.3 | 334.3 | 2.7 | 4000 | 1.2 | 2980 | 35000 | 1.5 | 4000 | 0.70 | 3500 | 35000 | |
| C 80 4_364.7 | 364.7 | 2.5 | 4000 | 1.1 | 3020 | 35000 | 1.4 | 4000 | 0.60 | 3500 | 35000 | |
| C 80 4_417.5 | 417.5 | 2.2 | 4000 | 1.0 | 3000 | 35000 | 1.2 | 4000 | 0.60 | 3500 | 35000 | |
| C 80 4_455.4 | 455.4 | 2.0 | 4000 | 0.90 | 3050 | 35000 | 1.1 | 4000 | 0.50 | 3500 | 35000 | |
| C 80 4_529.3 | 529.3 | 1.7 | 4000 | 0.80 | 3030 | 35000 | 0.90 | 4000 | 0.40 | 3500 | 35000 | |
| C 80 4_577.4 | 577.4 | 1.6 | 4000 | 0.70 | 3070 | 35000 | 0.90 | 4000 | 0.40 | 3500 | 35000 | |
| C 80 4_664.3 | 664.3 | 1.4 | 4000 | 0.60 | 3050 | 35000 | 0.80 | 4000 | 0.30 | 3500 | 35000 | |
| C 80 4_724.7 | 724.7 | 1.2 | 4000 | 0.60 | 3090 | 35000 | 0.70 | 4000 | 0.30 | 3500 | 35000 | |
| C 80 4_783.4 | 783.4 | 1.1 | 4000 | 0.50 | 3060 | 35000 | 0.60 | 4000 | 0.30 | 3500 | 35000 | |
| C 80 4_854.6 | 854.6 | 1.1 | 4000 | 0.50 | 3100 | 35000 | 0.60 | 4000 | 0.30 | 3500 | 35000 | |
| C 80 4_945.7 | 945.7 | 1.0 | 4000 | 0.40 | 3070 | 35000 | 0.50 | 4000 | 0.20 | 3500 | 35000 | |
| C 80 4_1032 | 1032 | 0.90 | 4000 | 0.40 | 3110 | 35000 | 0.50 | 4000 | 0.20 | 3500 | 35000 | |
| C 80 4_1168 | 1168 | 0.80 | 4000 | 0.40 | 3080 | 35000 | 0.40 | 4000 | 0.20 | 3500 | 35000 | |
| C 80 4_1274 | 1274 | 0.70 | 4000 | 0.30 | 3110 | 35000 | 0.40 | 4000 | 0.20 | 3500 | 35000 | |
| C 80 4_1358 | 1358 | 0.70 | 4000 | 0.30 | 3090 | 35000 | 0.40 | 4000 | 0.20 | 3500 | 35000 | |
| C 80 4_1481 | 1481 | 0.60 | 4000 | 0.30 | 3120 | 35000 | 0.30 | 4000 | 0.20 | 3500 | 35000 | |

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C 90

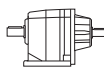

7200 Nm

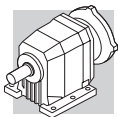
|  | i | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | |  |
|---|-------|-------------------------------|----------------|----------------|---------------|---------------|-------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 90 2_5.2 | 5.2 | 542 | 3500 | 209 | 1700 | 12800 | 271 | 4300 | 128 | 2170 | 15800 | 161 |
| C 90 2_5.6 | 5.6 | 500 | 3600 | 198 | 3240 | 12800 | 250 | 4400 | 121 | 4250 | 16000 | |
| C 90 2_6.8 | 6.8 | 414 | 3850 | 176 | 1860 | 13400 | 207 | 4750 | 108 | 2210 | 16400 | |
| C 90 2_7.3 | 7.3 | 383 | 3950 | 167 | 3470 | 13500 | 191 | 4850 | 102 | 4360 | 16700 | |
| C 90 2_8.3 | 8.3 | 336 | 4150 | 154 | 2010 | 13800 | 168 | 5100 | 94 | 2540 | 17100 | |
| C 90 2_9.0 | 9.0 | 310 | 4250 | 145 | 3660 | 14000 | 155 | 5200 | 89 | 4720 | 17500 | |
| C 90 2_10.4 | 10.4 | 270 | 4500 | 134 | 990 | 14200 | 135 | 5550 | 83 | 1150 | 17400 | |
| C 90 2_11.2 | 11.2 | 249 | 4600 | 126 | 2750 | 14400 | 125 | 5650 | 78 | 3460 | 17800 | |
| C 90 2_12.8 | 12.8 | 219 | 4850 | 117 | 580 | 14700 | 109 | 5950 | 72 | 840 | 18200 | |
| C 90 2_13.9 | 13.9 | 202 | 4900 | 109 | 2700 | 15300 | 101 | 6050 | 67 | 3220 | 18700 | |
| C 90 2_16.0 | 16.0 | 175 | 5050 | 98 | 690 | 16800 | 88 | 6200 | 60 | 950 | 20800 | |
| C 90 2_17.3 | 17.3 | 162 | 5300 | 94 | 1670 | 15900 | 81 | 6500 | 58 | 2200 | 19800 | |
| C 90 2_18.7 | 18.7 | 150 | 5050 | 83 | 1140 | 19600 | 75 | 6200 | 51 | 1500 | 24300 | |
| C 90 2_20.2 | 20.2 | 138 | 5400 | 82 | 1540 | 17900 | 69 | 6600 | 50 | 2160 | 22500 | |
| C 90 2_22.9 | 22.9 | 122 | 5050 | 68 | 2110 | 22400 | 61 | 6200 | 42 | 2700 | 27600 | |
| C 90 2_24.8 | 24.8 | 113 | 5400 | 67 | 2500 | 21900 | 56 | 6600 | 41 | 3340 | 27300 | |
| C 90 2_27.2 | 27.2 | 103 | 4500 | 51 | 6160 | 26000 | 52 | 5500 | 31 | 7820 | 32200 | |
| C 90 2_29.4 | 29.4 | 95 | 4800 | 50 | 6560 | 26000 | 48 | 5900 | 31 | 8130 | 32000 | |
| C 90 2_35.1 | 35.1 | 80 | 4400 | 39 | 8090 | 29400 | 40 | 5400 | 24 | 11100 | 36300 | |
| C 90 3_39.4 | 39.4 | 71 | 6350 | 51 | 10800 | 23900 | 36 | 7100 | 28 | 13700 | 32900 | |
| C 90 3_43.0 | 43.0 | 65 | 6500 | 48 | 10800 | 24700 | 33 | 7200 | 26 | 13800 | 34000 | |
| C 90 3_50.3 | 50.3 | 56 | 6800 | 43 | 10800 | 26000 | 27.8 | 7100 | 22 | 13800 | 37000 | |
| C 90 3_54.9 | 54.9 | 51 | 7000 | 40 | 10900 | 26500 | 25.5 | 7200 | 21 | 13900 | 38300 | |
| C 90 3_59.2 | 59.2 | 47 | 7100 | 38 | 10800 | 27700 | 23.6 | 7100 | 18.9 | 13900 | 40000 | |
| C 90 3_64.6 | 64.6 | 43 | 7200 | 35 | 10900 | 29100 | 21.7 | 7200 | 17.6 | 14000 | 41300 | |
| C 90 3_74.4 | 74.4 | 38 | 7100 | 30 | 10900 | 31900 | 18.8 | 7100 | 15.0 | 14000 | 44400 | |
| C 90 3_81.2 | 81.2 | 34 | 7200 | 28 | 10900 | 33000 | 17.2 | 7200 | 14.0 | 14100 | 45900 | |
| C 90 3_88.2 | 88.2 | 32 | 7100 | 25 | 11000 | 34800 | 15.9 | 7100 | 12.7 | 14000 | 47900 | |
| C 90 3_96.2 | 96.2 | 29.1 | 7200 | 24 | 11000 | 35900 | 14.5 | 7200 | 11.8 | 14100 | 49400 | |
| C 90 3_107.0 | 107.0 | 26.2 | 7100 | 21 | 11000 | 38100 | 13.1 | 7100 | 10.5 | 14100 | 52100 | |
| C 90 3_116.7 | 116.7 | 24.0 | 7200 | 19.4 | 11000 | 39400 | 12.0 | 7200 | 9.7 | 14100 | 53700 | |
| C 90 3_134.1 | 134.1 | 20.9 | 7100 | 16.7 | 11000 | 42400 | 10.4 | 7100 | 8.3 | 14100 | 57300 | |
| C 90 3_146.3 | 146.3 | 19.1 | 7200 | 15.5 | 11000 | 43800 | 9.6 | 7200 | 7.8 | 14200 | 59000 | |
| C 90 3_157.8 | 157.8 | 17.7 | 7100 | 14.2 | 11000 | 45600 | 8.9 | 7100 | 7.1 | 14100 | 60000 | |
| C 90 3_172.1 | 172.1 | 16.3 | 7200 | 13.2 | 11000 | 47100 | 8.1 | 7200 | 6.6 | 14200 | 60000 | |
| C 90 4_212.4 | 212.4 | 13.2 | 7200 | 10.9 | — | 60000 | 6.6 | 7200 | 5.5 | 1180 | 60000 | |
| C 90 4_231.7 | 231.7 | 12.1 | 7200 | 10.0 | — | 60000 | 6.0 | 7200 | 5.0 | 1560 | 60000 | |
| C 90 4_268.5 | 268.5 | 10.4 | 7200 | 8.6 | — | 60000 | 5.2 | 7200 | 4.3 | 1540 | 60000 | |
| C 90 4_292.9 | 292.9 | 9.6 | 7200 | 7.9 | — | 60000 | 4.8 | 7200 | 4.0 | 1880 | 60000 | |
| C 90 4_339.0 | 339.0 | 8.3 | 7200 | 6.8 | — | 60000 | 4.1 | 7200 | 3.4 | 1720 | 60000 | |
| C 90 4_369.8 | 369.8 | 7.6 | 7200 | 6.3 | — | 60000 | 3.8 | 7200 | 3.1 | 2050 | 60000 | |
| C 90 4_419.0 | 419.0 | 6.7 | 7200 | 5.5 | — | 60000 | 3.3 | 7200 | 2.8 | 1890 | 60000 | |
| C 90 4_457.1 | 457.1 | 6.1 | 7200 | 5.1 | — | 60000 | 3.1 | 7200 | 2.5 | 2210 | 60000 | |
| C 90 4_534.2 | 534.2 | 5.2 | 7200 | 4.3 | — | 60000 | 2.6 | 7200 | 2.2 | 2090 | 60000 | |
| C 90 4_582.8 | 582.8 | 4.8 | 7200 | 4.0 | — | 60000 | 2.4 | 7200 | 2.0 | 2270 | 60000 | |
| C 90 4_652.8 | 652.8 | 4.3 | 7200 | 3.6 | — | 60000 | 2.1 | 7200 | 1.8 | 2160 | 60000 | |
| C 90 4_712.2 | 712.2 | 3.9 | 7200 | 3.3 | — | 60000 | 2.0 | 7200 | 1.6 | 2290 | 60000 | |
| C 90 4_773.6 | 773.6 | 3.3 | 7200 | 3.0 | — | 60000 | 1.8 | 7200 | 1.5 | 2250 | 60000 | |
| C 90 4_844.0 | 844.0 | 3.0 | 7200 | 2.7 | — | 60000 | 1.7 | 7200 | 1.4 | 2310 | 60000 | |
| C 90 4_922.3 | 922.3 | 2.8 | 7200 | 2.5 | — | 60000 | 1.5 | 7200 | 1.3 | 2260 | 60000 | |
| C 90 4_1006 | 1006 | 2.5 | 7200 | 2.3 | — | 60000 | 1.4 | 7200 | 1.2 | 2320 | 60000 | |
| C 90 4_1137 | 1137 | 2.3 | 7200 | 2.0 | — | 60000 | 1.2 | 7200 | 1.0 | 2270 | 60000 | |
| C 90 4_1240 | 1240 | 2.2 | 7200 | 1.9 | — | 60000 | 1.1 | 7200 | 0.90 | 2230 | 60000 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

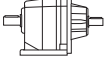



C 90 7200 Nm

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 90 2_5.2 | 5.2 | 174 | 4900 | 94 | 2560 | 18200 | 97 | 5850 | 62 | 3010 | 21600 | 161 |
| C 90 2_5.6 | 5.6 | 161 | 5050 | 89 | 4640 | 18100 | 89 | 6000 | 59 | 5720 | 21800 | |
| C 90 2_6.8 | 6.8 | 133 | 5450 | 80 | 2310 | 18500 | 74 | 6200 | 51 | 5130 | 24600 | |
| C 90 2_7.3 | 7.3 | 123 | 5550 | 75 | 4890 | 18900 | 68 | 6550 | 49 | 6340 | 23200 | |
| C 90 2_8.3 | 8.3 | 108 | 5850 | 70 | 2700 | 19300 | 60 | 6200 | 41 | 8870 | 27800 | |
| C 90 2_9.0 | 9.0 | 100 | 5950 | 65 | 5300 | 19800 | 55 | 6600 | 40 | 9660 | 27600 | |
| C 90 2_10.4 | 10.4 | 87 | 6200 | 59 | 2250 | 21000 | 48 | 6200 | 33 | 11000 | 31000 | |
| C 90 2_11.2 | 11.2 | 80 | 6450 | 57 | 3960 | 20400 | 45 | 6600 | 32 | 11700 | 30800 | |
| C 90 2_12.8 | 12.8 | 70 | 6250 | 48 | 4500 | 25300 | 39 | 6250 | 27 | 13200 | 34100 | |
| C 90 2_13.9 | 13.9 | 65 | 6550 | 47 | 5830 | 24400 | 36 | 6550 | 26 | 14600 | 34300 | |
| C 90 2_16.0 | 16.0 | 56 | 6200 | 38 | 6570 | 28700 | 31 | 6200 | 21 | 15000 | 38000 | |
| C 90 2_17.3 | 17.3 | 52 | 6550 | 38 | 7530 | 28600 | 28.9 | 6550 | 21 | 15000 | 38100 | |
| C 90 2_18.7 | 18.7 | 48 | 6200 | 33 | 7120 | 31000 | 26.7 | 6200 | 18.3 | 15000 | 40700 | |
| C 90 2_20.2 | 20.2 | 44 | 6600 | 32 | 7780 | 30800 | 24.8 | 6600 | 18.0 | 15000 | 40700 | |
| C 90 2_22.9 | 22.9 | 39 | 6200 | 27 | 8310 | 34200 | 21.8 | 6200 | 14.9 | 15000 | 44500 | |
| C 90 2_24.8 | 24.8 | 36 | 6600 | 26 | 8950 | 34100 | 20.2 | 6600 | 14.6 | 15000 | 44600 | |
| C 90 2_27.2 | 27.2 | 33 | 5500 | 20 | 13400 | 39200 | 18.4 | 5500 | 11.2 | 15000 | 50000 | |
| C 90 2_29.4 | 29.4 | 31 | 5900 | 19.9 | 13700 | 39100 | 17.0 | 5900 | 11.0 | 15000 | 50200 | |
| C 90 2_35.1 | 35.1 | 25.6 | 5400 | 15.3 | 14100 | 43800 | 14.2 | 5400 | 8.5 | 15000 | 55500 | |
| C 90 3_39.4 | 39.4 | 22.8 | 7100 | 18.3 | 15000 | 40600 | 12.7 | 7100 | 10.1 | 15000 | 40600 | |
| C 90 3_43.0 | 43.0 | 20.9 | 7200 | 17.0 | 15000 | 42000 | 11.6 | 7200 | 9.4 | 15000 | 42000 | |
| C 90 3_50.3 | 50.3 | 17.9 | 7100 | 14.3 | 15000 | 45400 | 9.9 | 7100 | 7.9 | 15000 | 45400 | |
| C 90 3_54.9 | 54.9 | 16.4 | 7200 | 13.3 | 15000 | 46900 | 9.1 | 7200 | 7.4 | 15000 | 46900 | |
| C 90 3_59.2 | 59.2 | 15.2 | 7100 | 12.2 | 15000 | 48800 | 8.4 | 7100 | 6.8 | 15000 | 48800 | |
| C 90 3_64.6 | 64.6 | 13.9 | 7200 | 11.3 | 15000 | 50400 | 7.7 | 7200 | 6.3 | 15000 | 50400 | |
| C 90 3_74.4 | 74.4 | 12.1 | 7100 | 9.7 | 15000 | 53800 | 6.7 | 7100 | 5.4 | 15000 | 53800 | |
| C 90 3_81.2 | 81.2 | 11.1 | 7200 | 9.0 | 15000 | 55500 | 6.2 | 7200 | 5.0 | 15000 | 55500 | |
| C 90 3_88.2 | 88.2 | 10.2 | 7100 | 8.2 | 15000 | 57800 | 5.7 | 7100 | 4.5 | 15000 | 57800 | |
| C 90 3_96.2 | 96.2 | 9.4 | 7200 | 7.6 | 15000 | 59600 | 5.2 | 7200 | 4.2 | 15000 | 59600 | |
| C 90 3_107.0 | 107.0 | 8.4 | 7100 | 6.7 | 15000 | 60000 | 4.7 | 7100 | 3.7 | 15000 | 60000 | |
| C 90 3_116.7 | 116.7 | 7.7 | 7200 | 6.3 | 15000 | 60000 | 4.3 | 7200 | 3.5 | 15000 | 60000 | |
| C 90 3_134.1 | 134.1 | 6.7 | 7100 | 5.4 | 15000 | 60000 | 3.7 | 7100 | 3.0 | 15000 | 60000 | |
| C 90 3_146.3 | 146.3 | 6.2 | 7200 | 5.0 | 15000 | 60000 | 3.4 | 7200 | 2.8 | 15000 | 60000 | |
| C 90 3_157.8 | 157.8 | 5.7 | 7100 | 4.6 | 15000 | 60000 | 3.2 | 7100 | 2.5 | 15000 | 60000 | |
| C 90 3_172.1 | 172.1 | 5.2 | 7200 | 4.2 | 15000 | 60000 | 2.9 | 7200 | 2.4 | 15000 | 60000 | |
| C 90 4_212.4 | 212.4 | 4.2 | 7200 | 3.5 | 2090 | 60000 | 2.4 | 7200 | 2.0 | 3210 | 60000 | |
| C 90 4_231.7 | 231.7 | 3.9 | 7200 | 3.2 | 2460 | 60000 | 2.2 | 7200 | 1.8 | 3290 | 60000 | |
| C 90 4_268.5 | 268.5 | 3.4 | 7200 | 2.8 | 2440 | 60000 | 1.9 | 7200 | 1.5 | 3300 | 60000 | |
| C 90 4_292.9 | 292.9 | 3.1 | 7200 | 2.5 | 2620 | 60000 | 1.7 | 7200 | 1.4 | 3370 | 60000 | |
| C 90 4_339.0 | 339.0 | 2.7 | 7200 | 2.2 | 2590 | 60000 | 1.5 | 7200 | 1.2 | 3340 | 60000 | |
| C 90 4_369.8 | 369.8 | 2.4 | 7200 | 2.0 | 2660 | 60000 | 1.4 | 7200 | 1.1 | 3420 | 60000 | |
| C 90 4_419.0 | 419.0 | 2.1 | 7200 | 1.8 | 2630 | 60000 | 1.2 | 7200 | 1.0 | 3390 | 60000 | |
| C 90 4_457.1 | 457.1 | 2.0 | 7200 | 1.6 | 2700 | 60000 | 1.1 | 7200 | 0.90 | 3460 | 60000 | |
| C 90 4_534.2 | 534.2 | 1.7 | 7200 | 1.4 | 2680 | 60000 | 0.90 | 7200 | 0.80 | 3380 | 60000 | |
| C 90 4_582.8 | 582.8 | 1.5 | 7200 | 1.3 | 2750 | 60000 | 0.90 | 7200 | 0.70 | 3500 | 60000 | |
| C 90 4_652.8 | 652.8 | 1.4 | 7200 | 1.1 | 2700 | 60000 | 0.80 | 7200 | 0.60 | 3450 | 60000 | |
| C 90 4_712.2 | 712.2 | 1.3 | 7200 | 1.0 | 2760 | 60000 | 0.70 | 7200 | 0.60 | 3500 | 60000 | |
| C 90 4_773.6 | 773.6 | 1.2 | 7200 | 1.0 | 2720 | 60000 | 0.60 | 7200 | 0.50 | 3480 | 60000 | |
| C 90 4_844.0 | 844.0 | 1.1 | 7200 | 0.90 | 2790 | 60000 | 0.60 | 7200 | 0.50 | 3500 | 60000 | |
| C 90 4_922.3 | 922.3 | 1.0 | 7200 | 0.80 | 2730 | 60000 | 0.50 | 7200 | 0.40 | 3490 | 60000 | |
| C 90 4_1006 | 1006 | 0.90 | 7200 | 0.70 | 2800 | 60000 | 0.50 | 7200 | 0.40 | 3500 | 60000 | |
| C 90 4_1137 | 1137 | 0.80 | 7200 | 0.70 | 2740 | 60000 | 0.40 | 7200 | 0.40 | 3500 | 60000 | |
| C 90 4_1240 | 1240 | 0.70 | 7200 | 0.60 | 2800 | 60000 | 0.40 | 7200 | 0.30 | 3500 | 60000 | |



C 100 12000 Nm

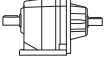

|  | i | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | |  |
|---|-------|-------------------------------|----------------|----------------|---------------|---------------|-------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 100 2_4.9 | 4.9 | 569 | 5500 | 345 | 1900 | 20600 | 285 | 6800 | 213 | 3790 | 25300 | |
| C 100 2_5.3 | 5.3 | 525 | 5650 | 327 | 2790 | 21000 | 263 | 6950 | 201 | 4940 | 25800 | |
| C 100 2_6.5 | 6.5 | 429 | 6150 | 291 | 1920 | 21800 | 215 | 7550 | 179 | 3950 | 27000 | |
| C 100 2_7.1 | 7.1 | 396 | 6200 | 271 | 3100 | 22700 | 198 | 7650 | 167 | 5270 | 27900 | |
| C 100 2_8.4 | 8.4 | 335 | 6700 | 248 | 1870 | 22800 | 168 | 8200 | 152 | 3970 | 28500 | |
| C 100 2_9.0 | 9.0 | 309 | 6800 | 232 | 2950 | 23500 | 155 | 8350 | 142 | 5190 | 29200 | |
| C 100 2_10.1 | 10.1 | 278 | 7100 | 217 | 1930 | 24100 | 139 | 8750 | 134 | 3900 | 29500 | |
| C 100 2_10.9 | 10.9 | 256 | 7100 | 200 | 3240 | 25700 | 128 | 8750 | 124 | 5460 | 31600 | |
| C 100 2_12.5 | 12.5 | 225 | 7650 | 190 | 1360 | 24900 | 112 | 9400 | 117 | 3260 | 30800 | |
| C 100 2_13.5 | 13.5 | 208 | 7700 | 176 | 2600 | 26300 | 104 | 9500 | 109 | 4680 | 32100 | |
| C 100 2_15.2 | 15.2 | 184 | 8100 | 164 | 1270 | 26600 | 92 | 10000 | 101 | 2680 | 32500 | |
| C 100 2_16.5 | 16.5 | 170 | 8250 | 154 | 2320 | 27200 | 85 | 10150 | 95 | 4420 | 33600 | |
| C 100 2_18.7 | 18.7 | 150 | 8200 | 136 | 1500 | 30800 | 75 | 10000 | 83 | 3600 | 38000 | |
| C 100 2_20.2 | 20.2 | 138 | 8100 | 124 | 3047 | 32200 | 69 | 10000 | 76 | 5210 | 39600 | |
| C 100 2_22.2 | 22.2 | 126 | 7500 | 104 | 3570 | 35800 | 63 | 9200 | 64 | 5960 | 44100 | |
| C 100 2_24.1 | 24.1 | 116 | 8100 | 104 | 3620 | 35200 | 58 | 10000 | 64 | 5900 | 43300 | |
| C 100 2_29.6 | 29.6 | 95 | 6900 | 72 | 6380 | 42400 | 47 | 8500 | 44 | 9220 | 52200 | |
| C 100 3_34.3 | 34.3 | 82 | 10350 | 95 | 9790 | 33300 | 41 | 11700 | 54 | 13000 | 46400 | |
| C 100 3_36.9 | 36.9 | 76 | 10650 | 91 | 10200 | 34500 | 38 | 11800 | 50 | 13100 | 48000 | |
| C 100 3_42.9 | 42.9 | 65 | 11350 | 83 | 9640 | 33200 | 33 | 12000 | 44 | 13100 | 51200 | |
| C 100 3_46.2 | 46.2 | 61 | 11700 | 80 | 10100 | 33100 | 30 | 12000 | 41 | 13300 | 53100 | |
| C 100 3_53.3 | 53.3 | 53 | 12000 | 71 | 9450 | 36400 | 26.3 | 12000 | 36 | 13200 | 56900 | |
| C 100 3_57.4 | 57.4 | 49 | 12000 | 66 | 10200 | 39500 | 24.4 | 12000 | 33 | 13400 | 59000 | |
| C 100 3_64.5 | 64.5 | 43 | 12000 | 59 | 9950 | 44100 | 21.7 | 12000 | 29 | 13400 | 62300 | |
| C 100 3_69.4 | 69.4 | 40 | 12000 | 54 | 10400 | 45900 | 20.2 | 12000 | 27 | 13500 | 64500 | |
| C 100 3_79.4 | 79.4 | 35 | 12000 | 48 | 10300 | 49200 | 17.6 | 12000 | 24 | 13500 | 68600 | |
| C 100 3_85.6 | 85.6 | 33 | 12000 | 44 | 10400 | 51100 | 16.4 | 12000 | 22 | 13600 | 70900 | |
| C 100 3_92.7 | 92.7 | 30 | 12000 | 41 | 10400 | 53200 | 15.1 | 12000 | 20 | 13500 | 73500 | |
| C 100 3_99.8 | 99.8 | 28.1 | 12000 | 38 | 10500 | 55200 | 14.0 | 12000 | 19.0 | 13600 | 75900 | |
| C 100 3_111.9 | 111.9 | 25.0 | 12000 | 34 | 10400 | 58300 | 12.5 | 12000 | 16.9 | 13500 | 79800 | |
| C 100 3_120.5 | 120.5 | 23.2 | 12000 | 31 | 10500 | 60400 | 11.6 | 12000 | 15.7 | 13700 | 82400 | |
| C 100 3_139.7 | 139.7 | 20.0 | 11050 | 25 | 10600 | 67400 | 10.0 | 11050 | 12.5 | 13700 | 85000 | |
| C 100 3_150.4 | 150.4 | 18.6 | 12000 | 25 | 10600 | 66900 | 9.3 | 12000 | 12.6 | 13700 | 85000 | |
| C 100 4_162.1 | 162.1 | 17.3 | 12000 | 24 | — | 85000 | 8.6 | 12000 | 11.9 | — | 85000 | |
| C 100 4_185.4 | 185.4 | 15.1 | 12000 | 21 | — | 85000 | 7.6 | 12000 | 10.4 | — | 85000 | |
| C 100 4_199.6 | 199.6 | 14.0 | 12000 | 19.4 | — | 85000 | 7.0 | 12000 | 9.7 | — | 85000 | |
| C 100 4_244.2 | 244.2 | 11.5 | 12000 | 15.8 | — | 85000 | 5.7 | 12000 | 7.9 | — | 85000 | |
| C 100 4_263.0 | 263.0 | 10.6 | 12000 | 14.7 | — | 85000 | 5.3 | 12000 | 7.4 | — | 85000 | |
| C 100 4_300.5 | 300.5 | 9.3 | 12000 | 12.9 | — | 85000 | 4.7 | 12000 | 6.4 | — | 85000 | |
| C 100 4_323.6 | 323.6 | 8.7 | 12000 | 11.9 | — | 85000 | 4.3 | 12000 | 6.0 | — | 85000 | |
| C 100 4_380.5 | 380.5 | 7.4 | 12000 | 10.2 | — | 85000 | 3.7 | 12000 | 5.1 | — | 85000 | |
| C 100 4_409.8 | 409.8 | 6.8 | 12000 | 9.4 | — | 85000 | 3.4 | 12000 | 4.7 | — | 85000 | |
| C 100 4_466.7 | 466.7 | 6.0 | 12000 | 8.3 | — | 85000 | 3.0 | 12000 | 4.1 | — | 85000 | |
| C 100 4_502.6 | 502.6 | 5.6 | 12000 | 7.7 | — | 85000 | 2.8 | 12000 | 3.8 | — | 85000 | |
| C 100 4_582.6 | 582.6 | 4.8 | 12000 | 6.6 | — | 85000 | 2.4 | 12000 | 3.3 | — | 85000 | |
| C 100 4_627.4 | 627.4 | 4.5 | 12000 | 6.2 | — | 85000 | 2.2 | 12000 | 3.1 | — | 85000 | |
| C 100 4_720.3 | 720.3 | 3.9 | 12000 | 5.4 | — | 85000 | 1.9 | 12000 | 2.7 | — | 85000 | |
| C 100 4_775.7 | 775.7 | 3.6 | 12000 | 5.0 | — | 85000 | 1.8 | 12000 | 2.5 | — | 85000 | |
| C 100 4_843.3 | 843.3 | 3.3 | 12000 | 4.6 | — | 85000 | 1.7 | 12000 | 2.3 | — | 85000 | |
| C 100 4_908.2 | 908.2 | 3.1 | 12000 | 4.3 | — | 85000 | 1.5 | 12000 | 2.1 | 830 | 85000 | |
| C 100 4_1004 | 1004 | 2.8 | 12000 | 3.9 | — | 85000 | 1.4 | 12000 | 1.9 | — | 85000 | |
| C 100 4_1081 | 1081 | 2.6 | 12000 | 3.6 | — | 85000 | 1.3 | 12000 | 1.8 | 870 | 85000 | |

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(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

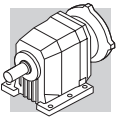


C 100 12000 Nm

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| C 100 2_4.9 | 4.9 | 183 | 7800 | 157 | 5310 | 28800 | 102 | 9300 | 104 | 6720 | 34400 | |
| C 100 2_5.3 | 5.3 | 169 | 7950 | 148 | 6680 | 29500 | 94 | 9450 | 98 | 9740 | 35200 | |
| C 100 2_6.5 | 6.5 | 138 | 8600 | 131 | 5670 | 31000 | 77 | 10250 | 87 | 7540 | 37000 | |
| C 100 2_7.1 | 7.1 | 127 | 8750 | 123 | 7050 | 31800 | 71 | 10450 | 81 | 10100 | 37800 | |
| C 100 2_8.4 | 8.4 | 108 | 9350 | 111 | 5670 | 32600 | 60 | 10950 | 72 | 8530 | 40100 | |
| C 100 2_9.0 | 9.0 | 99 | 9500 | 104 | 7080 | 33600 | 55 | 11350 | 69 | 10100 | 39900 | |
| C 100 2_10.1 | 10.1 | 89 | 10000 | 98 | 5540 | 33600 | 50 | 10900 | 60 | 10600 | 44500 | |
| C 100 2_10.9 | 10.9 | 82 | 10150 | 92 | 6980 | 34700 | 46 | 11500 | 58 | 11300 | 44300 | |
| C 100 2_12.5 | 12.5 | 72 | 10700 | 85 | 3910 | 35400 | 40 | 10850 | 48 | 11700 | 49600 | |
| C 100 2_13.5 | 13.5 | 67 | 10850 | 80 | 6440 | 36700 | 37 | 11450 | 47 | 12300 | 49500 | |
| C 100 2_15.2 | 15.2 | 59 | 10800 | 70 | 5940 | 40800 | 33 | 10800 | 39 | 13000 | 54700 | |
| C 100 2_16.5 | 16.5 | 55 | 11500 | 69 | 6320 | 39100 | 30 | 11500 | 38 | 13400 | 54500 | |
| C 100 2_18.7 | 18.7 | 48 | 10900 | 58 | 6310 | 45100 | 26.8 | 10900 | 32 | 13400 | 59800 | |
| C 100 2_20.2 | 20.2 | 45 | 11500 | 56 | 6890 | 45000 | 24.7 | 11500 | 31 | 14000 | 60100 | |
| C 100 2_22.2 | 22.2 | 40 | 9850 | 44 | 9170 | 52200 | 22.5 | 9850 | 24 | 15000 | 67800 | |
| C 100 2_24.1 | 24.1 | 37 | 10800 | 44 | 8930 | 51200 | 20.7 | 10800 | 25 | 15000 | 67200 | |
| C 100 2_29.6 | 29.6 | 30 | 9100 | 31 | 12600 | 61400 | 16.9 | 9100 | 17.0 | 15000 | 78300 | |
| C 100 3_34.3 | 34.3 | 26.2 | 11700 | 35 | 15000 | 57800 | 14.6 | 11700 | 19.2 | 15000 | 75500 | |
| C 100 3_36.9 | 36.9 | 24.4 | 11800 | 32 | 15000 | 59600 | 13.5 | 11800 | 18.0 | 15000 | 77700 | |
| C 100 3_42.9 | 42.9 | 21.0 | 12000 | 28 | 15000 | 63400 | 11.6 | 12000 | 15.7 | 15000 | 82300 | |
| C 100 3_46.2 | 46.2 | 19.5 | 12000 | 26 | 15000 | 65600 | 10.8 | 12000 | 14.6 | 15000 | 84900 | |
| C 100 3_53.3 | 53.3 | 16.9 | 12000 | 23 | 15000 | 69900 | 9.4 | 12000 | 12.7 | 15000 | 85000 | |
| C 100 3_57.4 | 57.4 | 15.7 | 12000 | 21 | 15000 | 72300 | 8.7 | 12000 | 11.8 | 15000 | 85000 | |
| C 100 3_64.5 | 64.5 | 14.0 | 12000 | 18.6 | 15000 | 76100 | 7.8 | 12000 | 10.5 | 15000 | 85000 | |
| C 100 3_69.4 | 69.4 | 13.0 | 12000 | 17.5 | 15000 | 78600 | 7.2 | 12000 | 9.7 | 15000 | 85000 | |
| C 100 3_79.4 | 79.4 | 11.3 | 12000 | 15.3 | 15000 | 83300 | 6.3 | 12000 | 8.5 | 15000 | 85000 | |
| C 100 3_85.6 | 85.6 | 10.5 | 12000 | 14.2 | 15000 | 85000 | 5.8 | 12000 | 7.9 | 15000 | 85000 | |
| C 100 3_92.7 | 92.7 | 9.7 | 12000 | 13.1 | 15000 | 85000 | 5.4 | 12000 | 7.3 | 15000 | 85000 | |
| C 100 3_99.8 | 99.8 | 9.0 | 12000 | 12.2 | 15000 | 85000 | 5.0 | 12000 | 6.8 | 15000 | 85000 | |
| C 100 3_111.9 | 111.9 | 8.0 | 12000 | 10.9 | 15000 | 85000 | 4.5 | 12000 | 6.0 | 15000 | 85000 | |
| C 100 3_120.5 | 120.5 | 7.5 | 12000 | 10.1 | 15000 | 85000 | 4.1 | 12000 | 5.6 | 15000 | 85000 | |
| C 100 3_139.7 | 139.7 | 6.4 | 11500 | 8.0 | 15000 | 85000 | 3.6 | 11050 | 4.5 | 15000 | 85000 | |
| C 100 3_150.4 | 150.4 | 6.0 | 12000 | 8.1 | 15000 | 85000 | 3.3 | 12000 | 4.5 | 15000 | 85000 | |
| C 100 4_162.1 | 162.1 | 5.6 | 12000 | 7.7 | — | 85000 | 3.1 | 12000 | 4.3 | — | 85000 | |
| C 100 4_185.4 | 185.4 | 4.9 | 12000 | 6.7 | — | 85000 | 2.7 | 12000 | 3.7 | 920 | 85000 | |
| C 100 4_199.6 | 199.6 | 4.5 | 12000 | 6.2 | — | 85000 | 2.5 | 12000 | 3.5 | 1430 | 85000 | |
| C 100 4_244.2 | 244.2 | 3.7 | 12000 | 5.1 | — | 85000 | 2.0 | 12000 | 2.8 | 1490 | 85000 | |
| C 100 4_263.0 | 263.0 | 3.4 | 12000 | 4.7 | — | 85000 | 1.9 | 12000 | 2.6 | 1950 | 85000 | |
| C 100 4_300.5 | 300.5 | 3.0 | 12000 | 4.1 | — | 85000 | 1.7 | 12000 | 2.3 | 1840 | 85000 | |
| C 100 4_323.6 | 323.6 | 2.8 | 12000 | 3.8 | 850 | 85000 | 1.5 | 12000 | 2.1 | 2280 | 85000 | |
| C 100 4_380.5 | 380.5 | 2.4 | 12000 | 3.3 | 700 | 85000 | 1.3 | 12000 | 1.8 | 2130 | 85000 | |
| C 100 4_409.8 | 409.8 | 2.2 | 12000 | 3.0 | 1120 | 85000 | 1.2 | 12000 | 1.7 | 2550 | 85000 | |
| C 100 4_466.7 | 466.7 | 1.9 | 12000 | 2.7 | 910 | 85000 | 1.1 | 12000 | 1.5 | 2340 | 85000 | |
| C 100 4_502.6 | 502.6 | 1.8 | 12000 | 2.5 | 1320 | 85000 | 1.0 | 12000 | 1.4 | 2740 | 85000 | |
| C 100 4_582.6 | 582.6 | 1.5 | 12000 | 2.1 | 1100 | 85000 | 0.90 | 12000 | 1.2 | 2520 | 85000 | |
| C 100 4_627.4 | 627.4 | 1.4 | 12000 | 2.0 | 1490 | 85000 | 0.80 | 12000 | 1.1 | 2910 | 85000 | |
| C 100 4_720.3 | 720.3 | 1.2 | 12000 | 1.7 | 1270 | 85000 | 0.70 | 12000 | 1.0 | 2700 | 85000 | |
| C 100 4_775.7 | 775.7 | 1.2 | 12000 | 1.6 | 1650 | 85000 | 0.60 | 12000 | 0.90 | 3070 | 85000 | |
| C 100 4_843.3 | 843.3 | 1.1 | 12000 | 1.5 | 1360 | 85000 | 0.60 | 12000 | 0.80 | 2790 | 85000 | |
| C 100 4_908.2 | 908.2 | 1.0 | 12000 | 1.4 | 1730 | 85000 | 0.60 | 12000 | 0.80 | 3160 | 85000 | |
| C 100 4_1004 | 1004 | 0.90 | 12000 | 1.2 | 1400 | 85000 | 0.50 | 12000 | 0.70 | 2830 | 85000 | |
| C 100 4_1081 | 1081 | 0.90 | 12000 | 1.1 | 1770 | 85000 | 0.50 | 12000 | 0.60 | 3170 | 85000 | |

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(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



27 PREDISPOSITIONS MOTEUR

Dans les tableaux (B21) et (B22) sont indiqués les accouplements possibles en termes de dimensions.

Le choix le plus approprié du motoréducteur à utiliser doit être effectué selon les indications du paragraphe 11, ainsi qu'en fonction des tableaux de sélection, respectant en particulier la condition $S \geq f_s$.


(B 21)

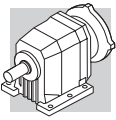
| | | IEC_  (IM B5) | | | | | | | | | |
|---------|-----|--|-------------------------|-------------------------|---------------------|-------------|-------------|----------------------|------------|------------|------------|
| | | P63 P71 | P80 P90 | P100 P112 | P132 | P160 | P180 | P200 | P225 | P250 | P280 |
| C 12 2 | | 2.8_66.2 | 2.8_47.6 | 2.8_47.6 | | | | | | | |
| C 22 2 | | 3.7_63.3 ● (7.1_8.7) | 2.7_54.7 | 2.7_54.7 | | | | | | | |
| C 22 3 | | 60.0_261.0 | 60.0_261.0 | 60.0_261.0 | | | | | | | |
| C 32 2 | | 5.0_66.8 ● (7.2_11.2) | 2.9_66.8 | 2.9_66.8 | 2.9_25.1 | | | | | | |
| C 32 3 | | 74.7_274.7 | 74.7_274.7 | 74.7_274.7 | | | | | | | |
| C 36 2 | | 4.6_19.0 ● (6.8_10.6) | 2.7_19.0 | 2.7_19.0 | 2.7_19.0 | | | | | | |
| C 36 3 | | 38.1_206.4 | 22.1_206.4 | 22.1_206.4 | 22.1_77.6 | | | | | | |
| C 36 4 | | 230.9_848.5 | 230.9_848.5 | 230.9_848.5 | | | | | | | |
| C 41 2 | | 14.2_44.8 | 2.7_44.8 | 2.7_44.8 | 2.7_31.4 | | | | | | |
| C 41 3 | | 47.0_209.1 | 28.5_209.1 | 28.5_209.1 | 28.5_102.3 | | | | | | |
| C 41 4 | | 239.9_855.5 | 239.9_855.5 | 239.9_855.5 | | | | | | | |
| C 51 2 | | 18.9_57.0 | 2.6_57.0 | 2.6_57.0 | 2.6_40.4 | 2.6_40.4 | 2.6_40.4 | | | | |
| C 51 3 | | 59.0_216.7 | 21.8_216.7 | 21.8_216.7 | 21.8_124.4 | 21.8_124.4 | 21.8_124.4 | | | | |
| C 51 4 | | 240.9_884.9 | 240.9_884.9 | 240.9_884.9 | 240.9_508.0 | | | | | | |
| C 61 2 | i = | 22.4_38.0 | 3.7_38.0 ● (6.7_7.5) | 3.7_38.0 ● (6.7_7.5) | 2.8_38.0 | 2.8_38.0 | 2.8_38.0 | | | | |
| C 61 3 | | 67.7_195.8 | 26.8_195.8 | 26.8_195.8 | 26.8_140.5 | 26.8_140.5 | 26.8_140.5 | | | | |
| C 61 4 | | 217.4_796.1 | 217.4_796.1 | 217.4_796.1 | | | | | | | |
| C 70 2 | | | 14.1_34.7 ● (15.3) | 14.1_34.7 ● (15.3) | 7.5_34.7 ● (8.0) | 4.6_34.7 | 4.6_34.7* | 4.6_10.2* ● (9.5) | | | |
| C 70 3 | | | 41.3_239.3 | 41.3_239.3 | 41.3_137.4 | 41.3_137.4 | 41.3_137.4* | | | | |
| C 70 4 | | 251.3_1476 | 251.3_1476 | 251.3_1476 | 251.3_554.7 | | | | | | |
| C 80 2 | | | 20.5_39.1 | 20.5_39.1 | 11.1_39.1 | 7.0_39.1 | 5.6_39.1 | 5.6_25.9* | 5.6_25.9* | | |
| C 80 3 | | | 43.5_215.8 | 43.5_215.8 | 43.5_184.4 | 43.5_184.4 | 43.5_184.4 | | | | |
| C 80 4 | | 334.3_1481 | 261.9_1481 | 261.9_1481 | 261.9_724.7 | | | | | | |
| C 90 2 | | | 22.9_35.1 | 22.9_35.1 | 12.8_35.1 | 10.4_35.1 | 10.4_35.1 | 5.2_29.4 | 5.2_29.4* | 5.2_29.4* | |
| C 90 3 | | | 74.4_172.1 | 74.4_172.1 | 39.4_172.1 | 39.4_172.1 | 39.4_172.1 | 39.4_96.2 | 39.4_96.2* | 39.4_96.2* | |
| C 90 4 | | 339.0_1240 | 212.4_1240 | 212.4_1240 | 212.4_712.2 | 212.4_712.2 | 212.4_712.2 | | | | |
| C 100 2 | | | | 29.6 | 15.2_29.6 | 12.5_29.6 | 12.5_29.6 | 4.9_29.6 | 4.9_29.6 | 4.9_29.6* | 4.9_29.6* |
| C 100 3 | | | | 79.4_150.4 | 42.9_150.4 | 34.3_150.4 | 34.3_150.4 | 34.3_99.8 | 34.3_99.8* | 34.3_99.8 | 34.3_99.8* |
| C 100 4 | | 380.5_1081 | 162.1_1081 | 162.1_1081 | 162.1_775.7 | 162.1_775.7 | 162.1_775.7 | | | | |

Pour les positions de montage B3, B5, B6, B7, B8 les moteurs repérés par * son livrés en B3/B5



(B 22)

| | |  | | | | | | |
|---------|-----|---|-------------------------|--------------------------|-------------------------|-------------------------|---------------------|---------------------|
| | | M0 | M05 | M1 | M2 | M3 | M4 | M5 |
| C 05 2 | | 27.1_44.7 | 5.5_44.7 | 5.5_44.7 | | | | |
| C 12 2 | | | 2.8_66.2 | 2.8_37.0 | 2.8_47.7 | 2.8_47.7 | | |
| C 22 2 | | | 3.7_63.3 ⊖ (7.1_8.7) | 3.7_43.3 ⊖ (7.1_8.7) | 2.7_54.7 | 2.7_54.7 | | |
| C 22 3 | | | 60.0_261.0 | 60.0_261.0 | 60.0_261.0 | 60.0_261.0 | | |
| C 32 2 | | | | 5.0_52.4 ⊖ (7.2_11.2) | 2.9_66.8 | 2.9_66.8 | 2.9_25.1 | |
| C 32 3 | | | 74.7_274.7 | 74.7_274.7 | 74.7_274.7 | 74.7_274.7 | | |
| C 36 2 | | | | 4.6_19.0 ⊖ (6.8_10.6) | 2.7_19.0 | 2.7_19.0 | 2.7_19.0 | |
| C 36 3 | | | | 38.1_162.0 | 22.1_206.4 | 22.1_206.4 | 22.1_77.6 | |
| C 36 4 | | | 230.9_848.5 | 230.9_848.5 | 230.9_848.5 | 230.9_848.5 | | |
| C 41 2 | | | | 14.2_44.8 | 2.7_44.8 | 2.7_44.8 | 2.7_31.4 | |
| C 41 3 | | | | 47.0_209.1 | 28.5_209.1 | 28.5_209.1 | 28.5_102.3 | |
| C 41 4 | | | 239.9_855.5 | 239.9_855.5 | 239.9_855.5 | 239.9_855.5 | | |
| C 51 2 | | | | 18.9_57.0 | 2.6_57.0 | 2.6_57.0 | 2.6_40.4 | 2.6_40.4 |
| C 51 3 | | | | 59.0_216.7 | 21.8_216.7 | 21.8_216.7 | 21.8_124.4 | 21.8_124.4 |
| C 51 4 | | | | 240.9_884.9 | 240.9_884.9 | 240.9_884.9 | 240.9_508.0 | |
| C 61 2 | i = | | | | 3.7_38.0 ⊖ (6.7_7.5) | 3.7_38.0 ⊖ (6.7_7.5) | 2.8_38.0 | 2.8_38.0 |
| C 61 3 | | | | | 26.8_195.8 | 26.8_195.8 | 26.8_140.5 | 26.8_140.5 |
| C 61 4 | | | | 217.4_796.1 | 217.4_796.1 | 217.4_796.1 | | |
| C 70 2 | | | | | 14.1_34.7 ⊖ (15.3) | 14.1_34.7 ⊖ (15.3) | 7.5_34.7 ⊖ (8.0) | 7.5_34.7 ⊖ (8.0) |
| C 70 3 | | | | | 41.3_239.3 | 41.3_239.3 | 41.3_137.4 | 41.3_137.4 |
| C 70 4 | | | | 251.3_1476 | 251.3_1476 | 251.3_1476 | 251.3_554.7 | |
| C 80 2 | | | | | | 20.5_39.1 | 11.1_39.1 | 11.1_39.1 |
| C 80 3 | | | | | | 43.5_215.8 | 43.5_184.4 | 43.5_184.4 |
| C 80 4 | | | | 334.3_1481 | 261.9_1481 | 261.9_1481 | 261.9_724.7 | |
| C 90 2 | | | | | | 22.9_35.1 | 12.8_35.1 | 12.8_35.1 |
| C 90 3 | | | | | | 74.4_172.1 | 39.4_172.1 | 39.4_172.1 |
| C 90 4 | | | | 339.0_1240 | 212.4_1240 | 212.4_1240 | 212.4_712.2 | |
| C 100 2 | | | | | | | 15.2_29.6 | 15.2_29.6 |
| C 100 3 | | | | | | | 42.9_150.4 | 42.9_150.4 |
| C 100 4 | | | | 380.5_1081 | 162.1_1081 | 162.1_1081 | 162.1_775.7 | |



Sont disponibles des prédispositions pour l'accouplement des réducteurs C12...C61 avec les servo-moteurs les plus répandus. Les dimensions des brides sont indiquées dans les pages des dimensions de chaque réducteur. Le code **SK** indique un arbre d'entrée muni d'une rainure de clavette ; le code **SC** indique un arbre d'entrée muni d'une frette de serrage (fournie).

(B 23)

| | SERVO INPUT | | | | | | | |
|---------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|
| | SK60A | SK60B | SK80A | SK80B | SK80C | SK95A | SK95B | SK95C |
| | SC60A | SC60B | SC80A | SC80B | SC80C | SC95A | SC95B | SC95C |
| C 12 2 | 2.8_66.2 | 2.8_66.2 | 2.8_66.2 | | 2.8_47.6 | 2.8_66.2 | 2.8_47.6 | 2.8_47.6 |
| C 22 2 | 3.7_63.3 ⊖ (7.1_8.7) | 3.7_63.3 ⊖ (7.1_8.7) | 3.7_63.3 ⊖ (7.1_8.7) | | 2.7_54.7 | 3.7_63.3 ⊖ (7.1_8.7) | 2.7_54.7 | 2.7_54.7 |
| C 22 3 | 60.0_261.0 | 60.0_261.0 | 60.0_261.0 | | 60.0_261.0 | 60.0_261.0 | 60.0_261.0 | 60.0_261.0 |
| C 32 2 | 5.0_66.8 ⊖ (7.2_11.2) | 5.0_66.8 ⊖ (7.2_11.2) | 5.0_66.8 ⊖ (7.2_11.2) | | 2.9_66.8 | 5.0_66.8 ⊖ (7.2_11.2) | 2.9_66.8 | 2.9_66.8 |
| C 32 3 | 74.7_274.7 | 74.7_274.7 | 74.7_274.7 | | 74.7_274.7 | 74.7_274.7 | 74.7_274.7 | 74.7_274.7 |
| C 36 2 | 4.6_19.0 ⊖ (6.8_10.6) | 4.6_19.0 ⊖ (6.8_10.6) | 4.6_19.0 ⊖ (6.8_10.6) | | 2.7_19.0 | 4.6_19.0 ⊖ (6.8_10.6) | 2.7_19.0 | 2.7_19.0 |
| C 36 3 | 38.1_206.4 | 38.1_206.4 | 38.1_206.4 | | 22.1_206.4 | 38.1_206.4 | 22.1_206.4 | 22.1_206.4 |
| C 36 4 | 230.9_848.5 | 230.9_848.5 | 230.9_848.5 | | 230.9_848.5 | 230.9_848.5 | 230.9_848.5 | 230.9_848.5 |
| C 41 2 | i = | | | 6.0_44.8 ⊖ (6.4_12.4) | 2.7_44.8 | 6.0_44.8 ⊖ (6.4_12.4) | 2.7_44.8 | 2.7_44.8 |
| C 41 3 | | | | 47.0_209.1 | 28.5_209.1 | 47.0_209.1 | 28.5_209.1 | 28.5_209.1 |
| C 41 4 | | 239.9_855.5 | 239.9_855.5 | | 239.9_855.5 | 239.9_855.5 | 239.9_855.5 | 239.9_855.5 |
| C 51 2 | | | | 18.9_57.0 | 2.6_57.0 | 18.9_57.0 | 2.6_57.0 | 2.6_57.0 |
| C 51 3 | | | | 59.0_216.7 | 21.8_216.7 | 59.0_216.7 | 21.8_216.7 | 21.8_216.7 |
| C 51 4 | | | | | 240.9_884.9 | 240.9_884.9 | 240.9_884.9 | 240.9_884.9 |
| C 61 2 | | | | | 3.7_38.0 ⊖ (6.7_7.5) | 22.4_38.0 | 3.7_38.0 ⊖ (6.7_7.5) | 3.7_38.0 ⊖ (6.7_7.5) |
| C 61 3 | | | | | 26.8_195.8 | 67.7_195.8 | 26.8_195.8 | 26.8_195.8 |
| C 61 4 | | | | 217.4_796.1 | 217.4_796.1 | 217.4_796.1 | 217.4_796.1 | 217.4_796.1 |

(B 24)

| | SK110A | SK110B | SK130A | SK130B | SK180A | SK180B | |
|---------------|-------------|-------------------------|-------------------------|-------------------------|------------|------------|------------|
| | SC110A | SC110B | SC130A | SC130B | SC180A | SC180B | |
| C 12 2 | 2.8_47.6 | 2.8_47.6 | | | | | |
| C 22 2 | 2.7_54.7 | 2.7_54.7 | | | | | |
| C 22 3 | 60.0_261.0 | 60.0_261.0 | | | | | |
| C 32 2 | 2.9_66.8 | 2.9_66.8 | 2.9_66.8 | | | | |
| C 32 3 | 74.7_274.7 | 74.7_274.7 | | | | | |
| C 36 2 | 2.7_19.0 | 2.7_19.0 | 2.7_19.0 | | | | |
| C 36 3 | 22.1_206.4 | 22.1_206.4 | 22.1_206.4 | | | | |
| C 36 4 | 230.9_848.5 | 230.9_848.5 | | | | | |
| C 41 2 | i = | 2.7_44.8 | 2.7_44.8 | 2.7_44.8 | 2.7_31.4 | 2.7_31.4 | 2.7_31.4 |
| C 41 3 | | 28.5_209.1 | 28.5_209.1 | 28.5_209.1 | 28.5_102.3 | 28.5_102.3 | 28.5_102.3 |
| C 41 4 | | 239.9_855.5 | 239.9_855.5 | | | | |
| C 51 2 | | 2.6_57.0 | 2.6_57.0 | 2.6_57.0 | 2.6_40.4 | 2.6_40.4 | 2.6_40.4 |
| C 51 3 | | 21.8_216.7 | 21.8_216.7 | 21.8_216.7 | 21.8_124.4 | 21.8_124.4 | 21.8_124.4 |
| C 51 4 | | 240.9_884.9 | 240.9_884.9 | 240.9_884.9 | | | |
| C 61 2 | | 3.7_38.0 ⊖ (6.7_7.5) | 3.7_38.0 ⊖ (6.7_7.5) | 3.7_38.0 ⊖ (6.7_7.5) | 2.8_38.0 | 2.8_38.0 | 2.8_38.0 |
| C 61 3 | | 26.8_195.8 | 26.8_195.8 | 26.8_195.8 | 26.8_140.5 | 26.8_140.5 | 26.8_140.5 |
| C 61 4 | | 217.4_796.1 | 217.4_796.1 | 217.4_796.1 | | | |



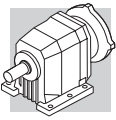
28 MOMENT D'INERTIE

Les tableaux suivants indiquent les valeurs du moment d'inertie J_r [kgm²] au niveau de l'arbre rapide du réducteur ; pour une plus grande facilité de lecture, nous vous prions de noter les définitions des symboles employés.



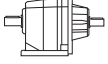
| | | | |
|--|--|--|---|
| | <p>Les valeurs liées à ces symboles sont à assigner au réducteur compact sans moteur. Dans ce cas, afin d'avoir le moment d'inertie total du motoréducteur, on devra additionner la valeur correspondant au réducteur compact, à celle du moteur à assembler (donnée que l'on peut repérer dans les tableaux des caractéristiques techniques des moteurs électriques).</p> | | <p>Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour accouplement moteur seulement (taille IEC...).</p> |
| | | | <p>Les valeurs liées au réducteur sont assignées à ce symbole.</p> |
| | | | <p>Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour liaison a servomoteur.</p> |

C 05

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | |
|------------------|------|---|----|----|----|----|-----|-----|---|
| | | | | | | | | | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | |
| C 05_5.5 | 5.5 | 0.29 | — | — | — | — | — | — | — |
| C 05_6.7 | 6.7 | 0.29 | — | — | — | — | — | — | — |
| C 05_7.4 | 7.4 | 0.28 | — | — | — | — | — | — | — |
| C 05_9.3 | 9.3 | 0.17 | — | — | — | — | — | — | — |
| C 05_11.2 | 11.2 | 0.16 | — | — | — | — | — | — | — |
| C 05_12.5 | 12.5 | 0.16 | — | — | — | — | — | — | — |
| C 05_15.6 | 15.6 | 0.09 | — | — | — | — | — | — | — |
| C 05_18.9 | 18.9 | 0.09 | — | — | — | — | — | — | — |
| C 05_21.0 | 21.0 | 0.08 | — | — | — | — | — | — | — |
| C 05_27.1 | 27.1 | 0.04 | — | — | — | — | — | — | — |
| C 05_32.8 | 32.8 | 0.04 | — | — | — | — | — | — | — |
| C 05_36.4 | 36.4 | 0.04 | — | — | — | — | — | — | — |
| C 05_40.3 | 40.3 | 0.03 | — | — | — | — | — | — | — |
| C 05_44.7 | 44.7 | 0.03 | — | — | — | — | — | — | — |




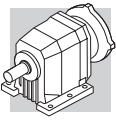
C 12

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | |
|--------------------|------|---|---|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | |
| C 12 2_2.8 | 2.8 | 0.44 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 1.3 |
| C 12 2_3.2 | 3.2 | 0.34 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 1.2 |
| C 12 2_3.7 | 3.7 | 0.29 | 1.8 | 1.7 | 3.1 | 3.1 | 4.4 | 4.4 | 1.2 |
| C 12 2_4.3 | 4.3 | 0.21 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 1.1 |
| C 12 2_4.9 | 4.9 | 0.19 | 1.7 | 1.7 | 3.0 | 3.0 | 4.3 | 4.3 | 1.1 |
| C 12 2_5.6 | 5.6 | 0.15 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 1.0 |
| C 12 2_6.2 | 6.2 | 0.12 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 1.0 |
| C 12 2_7.6 | 7.6 | 0.33 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 1.2 |
| C 12 2_8.8 | 8.8 | 0.32 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 1.2 |
| C 12 2_10.1 | 10.1 | 0.23 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 1.1 |
| C 12 2_11.9 | 11.9 | 0.17 | 1.6 | 1.6 | 3.0 | 3.0 | 4.2 | 4.2 | 1.1 |
| C 12 2_13.4 | 13.4 | 0.16 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 1.1 |
| C 12 2_15.4 | 15.4 | 0.12 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 1.0 |
| C 12 2_17.2 | 17.2 | 0.10 | 1.6 | 1.6 | 2.9 | 2.9 | 4.2 | 4.2 | 1.0 |
| C 12 2_18.4 | 18.4 | 0.08 | 1.6 | 1.5 | 2.9 | 2.9 | 4.2 | 4.2 | 0.98 |
| C 12 2_20.6 | 20.6 | 0.08 | 1.5 | 1.5 | 2.9 | 2.9 | 4.2 | 4.2 | 0.98 |
| C 12 2_23.2 | 23.2 | 0.07 | 1.5 | 1.5 | 2.9 | 2.9 | 4.1 | 4.1 | 0.97 |
| C 12 2_25.4 | 25.4 | 0.06 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.96 |
| C 12 2_29.5 | 29.5 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.95 |
| C 12 2_32.8 | 32.8 | 0.04 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.94 |
| C 12 2_37.0 | 37.0 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.93 |
| C 12 2_42.3 | 42.3 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.93 |
| C 12 2_47.6 | 47.6 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.92 |
| C 12 2_55.2 | 55.2 | 0.02 | 1.5 | 1.5 | — | — | — | — | 0.92 |
| C 12 2_66.2 | 66.2 | 0.01 | 1.5 | 1.5 | — | — | — | — | 0.91 |



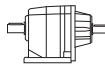


C 12

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|--------------------|------|--|------|------------|------|-----|-----|--------------------|-----|-------------|-----|
| | |  SERVO | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| C 12 2_2.8 | 2.8 | 0.71 | 0.97 | 0.73 | 1.2 | 3.3 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 |
| C 12 2_3.2 | 3.2 | 0.61 | 0.87 | 0.63 | 1.1 | 3.2 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 |
| C 12 2_3.7 | 3.7 | 0.56 | 0.82 | 0.58 | 1.0 | 3.1 | 3.5 | 3.1 | 3.6 | 3.1 | 4.1 |
| C 12 2_4.3 | 4.3 | 0.48 | 0.74 | 0.50 | 0.94 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 |
| C 12 2_4.9 | 4.9 | 0.46 | 0.72 | 0.48 | 0.92 | 3.0 | 3.4 | 3.0 | 3.5 | 3.0 | 4.0 |
| C 12 2_5.6 | 5.6 | 0.42 | 0.68 | 0.44 | 0.88 | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| C 12 2_6.2 | 6.2 | 0.39 | 0.65 | 0.41 | 0.85 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| C 12 2_7.6 | 7.6 | 0.60 | 0.86 | 0.62 | 1.1 | 3.2 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 |
| C 12 2_8.8 | 8.8 | 0.59 | 0.85 | 0.61 | 1.0 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 |
| C 12 2_10.1 | 10.1 | 0.50 | 0.76 | 0.52 | 0.96 | 3.1 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 |
| C 12 2_11.9 | 11.9 | 0.44 | 0.70 | 0.46 | 0.90 | 3.0 | 3.4 | 3.0 | 3.5 | 3.0 | 4.0 |
| C 12 2_13.4 | 13.4 | 0.43 | 0.69 | 0.45 | 0.83 | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| C 12 2_15.4 | 15.4 | 0.39 | 0.65 | 0.41 | 0.85 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| C 12 2_17.2 | 17.2 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 2.9 | 3.4 | 2.9 | 3.9 |
| C 12 2_18.4 | 18.4 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 2.9 | 3.4 | 2.9 | 3.9 |
| C 12 2_20.6 | 20.6 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 2.9 | 3.4 | 2.9 | 3.9 |
| C 12 2_23.2 | 23.2 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.9 | 3.9 |
| C 12 2_25.4 | 25.4 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 12 2_29.5 | 29.5 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 12 2_32.8 | 32.8 | 0.34 | 0.60 | 0.33 | 0.77 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 12 2_37.0 | 37.0 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 12 2_42.3 | 42.3 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 12 2_47.6 | 47.6 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 12 2_55.2 | 55.2 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | — | — | — | — |
| C 12 2_66.2 | 66.2 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | — | — | — | — |




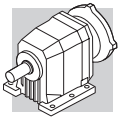
C 22

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | |
|---------------------|-------|---|---|-----|-----|-----|-----|---|------|
| | |  |  IEC | | | | |  | |
| | | | 63 | 71 | 80 | 90 | 100 | | |
| C 22 2_2.7 | 2.7 | 1.2 | — | — | 4.0 | 4.0 | 5.3 | 5.3 | 3.1 |
| C 22 2_3.3 | 3.3 | 0.83 | — | — | 3.7 | 3.6 | 4.9 | 4.9 | 2.7 |
| C 22 2_3.7 | 3.7 | 0.72 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | 2.6 |
| C 22 2_4.3 | 4.3 | 0.56 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | 2.4 |
| C 22 2_4.8 | 4.8 | 0.48 | 2.0 | 1.9 | 3.3 | 3.3 | 4.6 | 4.6 | 2.4 |
| C 22 2_5.6 | 5.6 | 0.36 | 1.8 | 1.8 | 3.2 | 3.2 | 4.4 | 4.4 | 2.2 |
| C 22 2_6.1 | 6.1 | 0.29 | 1.8 | 1.7 | 3.1 | 3.1 | 4.4 | 4.4 | 2.2 |
| C 22 2_7.1 | 7.1 | 0.77 | — | — | 3.6 | 3.6 | 4.8 | 4.8 | 2.6 |
| C 22 2_8.7 | 8.7 | 0.55 | — | — | 3.4 | 3.3 | 4.6 | 4.6 | 2.4 |
| C 22 2_9.6 | 9.6 | 0.50 | 2.0 | 2.0 | 3.3 | 3.3 | 4.6 | 4.6 | 2.4 |
| C 22 2_11.1 | 11.1 | 0.39 | 1.9 | 1.8 | 3.2 | 3.2 | 4.5 | 4.5 | 2.3 |
| C 22 2_12.4 | 12.4 | 0.35 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 2.2 |
| C 22 2_14.5 | 14.5 | 0.36 | 1.7 | 1.7 | 3.1 | 3.1 | 4.3 | 4.3 | 2.1 |
| C 22 2_15.8 | 15.8 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 2.1 |
| C 22 2_18.1 | 18.1 | 0.18 | 1.6 | 1.6 | 3.0 | 3.0 | 4.3 | 4.3 | 2.0 |
| C 22 2_20.0 | 20.0 | 0.15 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.0 |
| C 22 2_21.5 | 21.5 | 0.13 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.0 |
| C 22 2_24.3 | 24.3 | 0.12 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.0 |
| C 22 2_27.2 | 27.2 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.0 |
| C 22 2_29.6 | 29.6 | 0.09 | 1.6 | 1.5 | 2.9 | 2.9 | 4.2 | 4.2 | 2.0 |
| C 22 2_33.1 | 33.1 | 0.07 | 1.5 | 1.5 | 2.9 | 2.9 | 4.2 | 4.2 | 1.9 |
| C 22 2_36.8 | 36.8 | 0.06 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 1.9 |
| C 22 2_43.3 | 43.3 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 1.9 |
| C 22 2_48.6 | 48.6 | 0.04 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 1.9 |
| C 22 2_54.7 | 54.7 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 1.9 |
| C 22 2_63.3 | 63.3 | 0.02 | 1.5 | 1.5 | — | — | — | — | 1.9 |
| C 22 3_60.0 | 60.0 | 0.04 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.94 |
| C 22 3_65.3 | 65.3 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.93 |
| C 22 3_74.8 | 74.8 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.93 |
| C 22 3_82.6 | 82.6 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.93 |
| C 22 3_88.5 | 88.5 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.93 |
| C 22 3_100.2 | 100.2 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.93 |
| C 22 3_112.0 | 112.0 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.93 |
| C 22 3_122.2 | 122.2 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.93 |
| C 22 3_136.5 | 136.5 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.92 |
| C 22 3_151.7 | 151.7 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.92 |
| C 22 3_178.5 | 178.5 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.92 |
| C 22 3_200.7 | 200.7 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.92 |
| C 22 3_225.8 | 225.8 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.92 |
| C 22 3_261.0 | 261.0 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.92 |



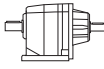


C 22

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|--------------|-------|--|------|------------|------|-----|-----|--------------------|-----|-------------|-----|
| | |  SERVO | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| C 22 2_2.7 | 2.7 | — | — | — | — | — | — | 4.0 | 4.5 | 4.0 | 5.0 |
| C 22 2_3.3 | 3.3 | — | — | — | — | — | — | 3.7 | 4.2 | 3.6 | 4.6 |
| C 22 2_3.7 | 3.7 | 0.99 | 1.3 | 1.0 | 1.4 | 3.5 | 4.0 | 3.6 | 4.1 | 3.5 | 4.5 |
| C 22 2_4.3 | 4.3 | 0.83 | 1.1 | 0.85 | 1.3 | 3.4 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 |
| C 22 2_4.8 | 4.8 | 0.75 | 1.0 | 0.77 | 1.2 | 3.3 | 3.7 | 3.3 | 3.8 | 3.3 | 4.3 |
| C 22 2_5.6 | 5.6 | 0.63 | 0.89 | 0.65 | 1.1 | 3.2 | 3.6 | 3.2 | 3.7 | 3.2 | 4.2 |
| C 22 2_6.1 | 6.1 | 0.56 | 0.82 | 0.58 | 1.0 | 3.1 | 3.5 | 3.1 | 3.6 | 3.1 | 4.1 |
| C 22 2_7.1 | 7.1 | — | — | — | — | — | — | 3.6 | 4.1 | 3.6 | 4.6 |
| C 22 2_8.7 | 8.7 | — | — | — | — | — | — | 3.4 | 3.9 | 3.3 | 4.3 |
| C 22 2_9.6 | 9.6 | 0.77 | 1.0 | 0.79 | 1.2 | 3.3 | 3.8 | 3.3 | 3.8 | 3.3 | 4.3 |
| C 22 2_11.1 | 11.1 | 0.66 | 0.92 | 0.68 | 1.1 | 3.2 | 3.6 | 3.2 | 3.7 | 3.2 | 4.2 |
| C 22 2_12.4 | 12.4 | 0.62 | 0.88 | 0.64 | 1.1 | 3.2 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 |
| C 22 2_14.5 | 14.5 | 0.63 | 0.89 | 0.65 | 1.1 | 3.2 | 3.6 | 3.1 | 3.6 | 3.1 | 4.1 |
| C 22 2_15.8 | 15.8 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 |
| C 22 2_18.1 | 18.1 | 0.45 | 0.71 | 0.47 | 0.91 | 3.0 | 3.4 | 3.0 | 3.5 | 3.0 | 4.0 |
| C 22 2_20.0 | 20.0 | 0.42 | 0.68 | 0.44 | 0.88 | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| C 22 2_21.5 | 21.5 | 0.40 | 0.66 | 0.42 | 0.86 | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| C 22 2_24.3 | 24.3 | 0.39 | 0.65 | 0.41 | 0.85 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| C 22 2_27.2 | 27.2 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| C 22 2_29.6 | 29.6 | 0.36 | 0.62 | 0.38 | 0.82 | 2.9 | 3.3 | 2.9 | 3.4 | 2.9 | 3.9 |
| C 22 2_33.1 | 33.1 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.9 | 3.9 |
| C 22 2_36.8 | 36.8 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 2_43.3 | 43.3 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 2_48.6 | 48.6 | 0.31 | 0.57 | 0.33 | 0.77 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 2_54.7 | 54.7 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 2_63.3 | 63.3 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | — | — | — | — |
| C 22 3_60.0 | 60.0 | 0.31 | 0.57 | 0.33 | 0.77 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_65.3 | 65.3 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_74.8 | 74.8 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_82.6 | 82.6 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_88.5 | 88.5 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_100.2 | 100.2 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_112.0 | 112.0 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_122.2 | 122.2 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_136.5 | 136.5 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_151.7 | 151.7 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_178.5 | 178.5 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_200.7 | 200.7 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_225.8 | 225.8 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| C 22 3_261.0 | 261.0 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |




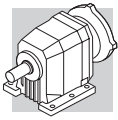
C 32

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|---|------|
| | |  |  IEC | | | | | |  | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | | |
| C 32 2_2.9 | 2.9 | 2.3 | — | — | 5.2 | 5.1 | 6.4 | 6.4 | 20 | 4.6 |
| C 32 2_3.4 | 3.4 | 1.8 | — | — | 4.6 | 4.6 | 5.9 | 5.9 | 20 | 4.0 |
| C 32 2_3.7 | 3.7 | 1.6 | — | — | 4.4 | 4.3 | 5.6 | 5.6 | 20 | 3.8 |
| C 32 2_4.5 | 4.5 | 1.2 | — | — | 4.0 | 4.0 | 5.2 | 5.2 | 19 | 3.4 |
| C 32 2_5.0 | 5.0 | 0.87 | 2.3 | 2.3 | 3.7 | 3.7 | 5.0 | 5.0 | 19 | 3.1 |
| C 32 2_5.7 | 5.7 | 0.82 | 2.3 | 2.3 | 3.7 | 3.6 | 4.9 | 4.9 | 19 | 3.0 |
| C 32 2_6.3 | 6.3 | 0.63 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 18 | 2.8 |
| C 32 2_7.2 | 7.2 | 1.5 | — | — | 4.4 | 4.3 | 5.6 | 5.6 | 19 | 3.7 |
| C 32 2_8.5 | 8.5 | 1.2 | — | — | 4.1 | 4.0 | 5.3 | 5.3 | 19 | 3.4 |
| C 32 2_9.3 | 9.3 | 1.1 | — | — | 3.9 | 3.9 | 5.1 | 5.1 | 19 | 3.3 |
| C 32 2_11.2 | 11.2 | 0.83 | — | — | 3.7 | 3.6 | 4.9 | 4.9 | 19 | 3.0 |
| C 32 2_12.3 | 12.3 | 0.60 | 2.1 | 2.1 | 3.4 | 3.4 | 4.7 | 4.7 | 18 | 2.8 |
| C 32 2_14.1 | 14.1 | 0.61 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 18 | 2.8 |
| C 32 2_15.6 | 15.6 | 0.46 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 18 | 2.7 |
| C 32 2_18.2 | 18.2 | 0.42 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 18 | 2.6 |
| C 32 2_20.1 | 20.1 | 0.34 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 18 | 2.6 |
| C 32 2_22.9 | 22.9 | 0.31 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 17 | 2.5 |
| C 32 2_25.1 | 25.1 | 0.25 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 17 | 2.5 |
| C 32 2_26.9 | 26.9 | 0.24 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | 2.5 |
| C 32 2_29.8 | 29.8 | 0.19 | 1.7 | 1.7 | 3.0 | 3.0 | 4.3 | 4.3 | — | 2.4 |
| C 32 2_33.1 | 33.1 | 0.19 | 1.7 | 1.7 | 3.0 | 3.0 | 4.3 | 4.3 | — | 2.4 |
| C 32 2_36.1 | 36.1 | 0.14 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.4 |
| C 32 2_40.7 | 40.7 | 0.14 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.4 |
| C 32 2_45.3 | 45.3 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.3 |
| C 32 2_52.4 | 52.4 | 0.08 | 1.6 | 1.6 | 2.9 | 2.9 | 4.2 | 4.2 | — | 2.3 |
| C 32 2_59.4 | 59.4 | 0.07 | 1.5 | 1.5 | 2.9 | 2.9 | 4.2 | 4.2 | — | 2.3 |
| C 32 2_66.8 | 66.8 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 2.3 |
| C 32 3_74.7 | 74.7 | 0.06 | 1.5 | 1.5 | 2.9 | 2.9 | 4.1 | 4.1 | — | 0.96 |
| C 32 3_82.6 | 82.6 | 0.06 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.96 |
| C 32 3_94.2 | 94.2 | 0.06 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.96 |
| C 32 3_103.3 | 103.3 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.95 |
| C 32 3_110.6 | 110.6 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.95 |
| C 32 3_122.4 | 122.4 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.95 |
| C 32 3_136.0 | 136.0 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.95 |
| C 32 3_148.4 | 148.4 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.95 |
| C 32 3_167.4 | 167.4 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.95 |
| C 32 3_186.0 | 186.0 | 0.04 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.94 |
| C 32 3_215.6 | 215.6 | 0.04 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.94 |
| C 32 3_244.2 | 244.2 | 0.04 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.94 |
| C 32 3_274.7 | 274.7 | 0.04 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 0.94 |



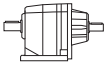


C 32

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | |
|--------------|-------|---|------|------------|------|-----|-----|--------------------|-----|-------------|-----|------|-----|
| | |  SERVO | | | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | | 130A | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| C 32 2_2.9 | 2.9 | — | — | — | — | — | — | 5.2 | 5.7 | 5.1 | 6.1 | 5.1 | 6.1 |
| C 32 2_3.4 | 3.4 | — | — | — | — | — | — | 4.6 | 5.1 | 4.6 | 5.6 | 4.6 | 5.6 |
| C 32 2_3.7 | 3.7 | — | — | — | — | — | — | 4.4 | 4.9 | 4.3 | 5.3 | 4.3 | 5.3 |
| C 32 2_4.5 | 4.5 | — | — | — | — | — | — | 4.0 | 4.5 | 4.0 | 5.0 | 4.0 | 5.0 |
| C 32 2_5.0 | 5.0 | 1.1 | 1.4 | 1.2 | 1.6 | 3.7 | 4.1 | 3.7 | 4.2 | 3.7 | 4.7 | 3.7 | 4.7 |
| C 32 2_5.7 | 5.7 | 1.1 | 1.4 | 1.1 | 1.5 | 3.6 | 4.1 | 3.7 | 4.2 | 3.6 | 4.6 | 3.6 | 4.6 |
| C 32 2_6.3 | 6.3 | 0.90 | 1.2 | 0.92 | 1.4 | 3.5 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 |
| C 32 2_7.2 | 7.2 | — | — | — | — | — | — | 4.4 | 4.9 | 4.3 | 5.3 | 4.3 | 5.3 |
| C 32 2_8.5 | 8.5 | — | — | — | — | — | — | 4.1 | 4.6 | 4.0 | 5.0 | 4.0 | 5.0 |
| C 32 2_9.3 | 9.3 | — | — | — | — | — | — | 3.9 | 4.4 | 3.9 | 4.9 | 3.9 | 4.9 |
| C 32 2_11.2 | 11.2 | — | — | — | — | — | — | 3.7 | 4.2 | 3.6 | 4.6 | 3.6 | 4.6 |
| C 32 2_12.3 | 12.3 | 0.87 | 1.1 | 0.89 | 1.3 | 3.4 | 3.9 | 3.4 | 3.9 | 3.4 | 4.4 | 3.4 | 4.4 |
| C 32 2_14.1 | 14.1 | 0.88 | 1.1 | 0.90 | 1.3 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 |
| C 32 2_15.6 | 15.6 | 0.73 | 0.99 | 0.75 | 1.2 | 3.3 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 |
| C 32 2_18.2 | 18.2 | 0.69 | 0.95 | 0.71 | 1.1 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 |
| C 32 2_20.1 | 20.1 | 0.61 | 0.87 | 0.63 | 1.1 | 3.2 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 |
| C 32 2_22.9 | 22.9 | 0.58 | 0.84 | 0.60 | 1.0 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 |
| C 32 2_25.1 | 25.1 | 0.52 | 0.78 | 0.54 | 0.98 | 3.1 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| C 32 2_26.9 | 26.9 | 0.51 | 0.77 | 0.53 | 0.97 | 3.1 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| C 32 2_29.8 | 29.8 | 0.46 | 0.72 | 0.48 | 0.92 | 3.0 | 3.4 | 3.0 | 3.5 | 3.0 | 4.0 | 3.0 | 4.0 |
| C 32 2_33.1 | 33.1 | 0.46 | 0.72 | 0.48 | 0.92 | 3.0 | 3.4 | 3.0 | 3.5 | 3.0 | 4.0 | 3.0 | 4.0 |
| C 32 2_36.1 | 36.1 | 0.41 | 0.67 | 0.43 | 0.87 | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| C 32 2_40.7 | 40.7 | 0.41 | 0.67 | 0.43 | 0.87 | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| C 32 2_45.3 | 45.3 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| C 32 2_52.4 | 52.4 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 2.9 | 3.4 | 2.9 | 3.9 | 2.9 | 3.9 |
| C 32 2_59.4 | 59.4 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.9 | 3.9 | 2.9 | 3.9 |
| C 32 2_66.8 | 66.8 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | 2.8 | 3.8 |
| C 32 3_74.7 | 74.7 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 2.9 | 3.4 | 2.9 | 3.9 | — | — |
| C 32 3_82.6 | 82.6 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_94.2 | 94.2 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_103.3 | 103.3 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_110.6 | 110.6 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_122.4 | 122.4 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_136.0 | 136.0 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_148.4 | 148.4 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_167.4 | 167.4 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_186.0 | 186.0 | 0.31 | 0.57 | 0.33 | 0.77 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_215.6 | 215.6 | 0.31 | 0.57 | 0.33 | 0.77 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_244.2 | 244.2 | 0.31 | 0.57 | 0.33 | 0.77 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| C 32 3_274.7 | 274.7 | 0.31 | 0.57 | 0.33 | 0.77 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |




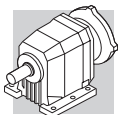
C 36

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | |
|---------------------|-------|---|---|-----|-----|-----|-----|-----|---|------|
| | |  |  IEC | | | | | |  | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | | |
| C 36 2_2.7 | 2.7 | 3.6 | — | — | 6.5 | 6.4 | 7.7 | 7.7 | 22 | 14 |
| C 36 2_3.2 | 3.2 | 2.5 | — | — | 5.4 | 5.3 | 6.6 | 6.6 | 21 | 13 |
| C 36 2_3.5 | 3.5 | 2.4 | — | — | 5.3 | 5.2 | 6.5 | 6.5 | 20 | 13 |
| C 36 2_4.2 | 4.2 | 1.6 | — | — | 4.5 | 4.4 | 5.7 | 5.7 | 20 | 12 |
| C 36 2_4.6 | 4.6 | 1.5 | 3.0 | 3.0 | 4.4 | 4.3 | 5.6 | 5.6 | 19 | 12 |
| C 36 2_5.3 | 5.3 | 1.1 | 2.6 | 2.6 | 4.0 | 3.9 | 5.2 | 5.2 | 19 | 12 |
| C 36 2_5.8 | 5.8 | 0.98 | 2.5 | 2.5 | 3.9 | 3.8 | 5.1 | 5.1 | 19 | 12 |
| C 36 2_6.8 | 6.8 | 2.2 | — | — | 5.1 | 5.0 | 6.3 | 6.3 | 20 | 13 |
| C 36 2_8.0 | 8.0 | 1.6 | — | — | 4.4 | 4.3 | 5.6 | 5.6 | 20 | 12 |
| C 36 2_8.8 | 8.8 | 1.5 | — | — | 4.4 | 4.3 | 5.6 | 5.6 | 19 | 12 |
| C 36 2_10.6 | 10.6 | 1.1 | — | — | 3.9 | 3.8 | 5.1 | 5.1 | 19 | 12 |
| C 36 2_11.7 | 11.7 | 1.0 | 2.5 | 2.5 | 3.9 | 3.8 | 5.1 | 5.1 | 19 | 12 |
| C 36 2_13.3 | 13.3 | 0.69 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | 19 | 11 |
| C 36 2_14.8 | 14.8 | 0.68 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | 19 | 11 |
| C 36 2_17.2 | 17.2 | 0.47 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | 18 | 11 |
| C 36 2_19.0 | 19.0 | 0.47 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | 18 | 11 |
| C 36 3_22.1 | 22.1 | 1.8 | — | — | 4.7 | 4.6 | 5.9 | 5.9 | 19 | 12 |
| C 36 3_26.2 | 26.2 | 1.3 | — | — | 4.2 | 4.1 | 5.4 | 5.4 | 19 | 12 |
| C 36 3_28.7 | 28.7 | 1.3 | — | — | 4.2 | 4.1 | 5.4 | 5.4 | 19 | 12 |
| C 36 3_34.6 | 34.6 | 0.88 | — | — | 3.8 | 3.7 | 5.0 | 5.0 | 19 | 11 |
| C 36 3_38.1 | 38.1 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 5.0 | 19 | 11 |
| C 36 3_43.5 | 43.5 | 0.59 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 19 | 11 |
| C 36 3_48.2 | 48.2 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 19 | 11 |
| C 36 3_56.2 | 56.2 | 0.41 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 18 | 11 |
| C 36 3_62.0 | 62.0 | 0.42 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 18 | 11 |
| C 36 3_70.8 | 70.8 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 18 | 11 |
| C 36 3_77.6 | 77.6 | 0.28 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 17 | 11 |
| C 36 3_83.1 | 83.1 | 0.24 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | 11 |
| C 36 3_91.9 | 91.9 | 0.21 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | 11 |
| C 36 3_102.2 | 102.2 | 0.19 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | 11 |
| C 36 3_111.5 | 111.5 | 0.16 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | 11 |
| C 36 3_125.8 | 125.8 | 0.14 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 11 |
| C 36 3_139.8 | 139.8 | 0.11 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 11 |
| C 36 3_162.0 | 162.0 | 0.09 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 11 |
| C 36 3_183.5 | 183.5 | 0.07 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 11 |
| C 36 3_206.4 | 206.4 | 0.06 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 11 |
| C 36 4_230.9 | 230.9 | 0.08 | — | — | — | — | — | — | — | — |
| C 36 4_255.0 | 255.0 | 0.08 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.90 |
| C 36 4_290.9 | 290.9 | 0.07 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.89 |
| C 36 4_318.9 | 318.9 | 0.07 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.89 |
| C 36 4_341.7 | 341.7 | 0.07 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.89 |
| C 36 4_377.9 | 377.9 | 0.07 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.89 |
| C 36 4_420.2 | 420.2 | 0.06 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.88 |
| C 36 4_458.4 | 458.4 | 0.06 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.88 |
| C 36 4_517.2 | 517.2 | 0.06 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.88 |
| C 36 4_574.7 | 574.7 | 0.06 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.88 |
| C 36 4_665.9 | 665.9 | 0.06 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.88 |
| C 36 4_754.2 | 754.2 | 0.06 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.88 |
| C 36 4_848.5 | 848.5 | 0.06 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 0.88 |



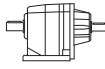


C 36

| | | J (•10 ⁻⁴) [kgm ²] | | | | | | | | | | | |
|--------------|-------|--|------|------------|------|-----|-----|--------------------|-----|-------------|-----|------|-----|
| | |  SERVO | | | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | | 130A | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| C 36 2_2.7 | 2.7 | — | — | — | — | — | — | 6.5 | 7.0 | 6.4 | 7.4 | 6.4 | 7.4 |
| C 36 2_3.2 | 3.2 | — | — | — | — | — | — | 5.4 | 5.9 | 5.3 | 6.3 | 5.3 | 6.3 |
| C 36 2_3.5 | 3.5 | — | — | — | — | — | — | 5.3 | 5.8 | 5.2 | 6.2 | 5.2 | 6.2 |
| C 36 2_4.2 | 4.2 | — | — | — | — | — | — | 4.5 | 5.0 | 4.4 | 5.4 | 4.4 | 5.4 |
| C 36 2_4.6 | 4.6 | 1.8 | 2.0 | 1.8 | 2.2 | 4.3 | 4.7 | 4.4 | 4.9 | 4.3 | 5.3 | 4.3 | 5.3 |
| C 36 2_5.3 | 5.3 | 1.4 | 1.6 | 1.4 | 1.8 | 3.9 | 4.4 | 4.0 | 4.5 | 3.9 | 4.9 | 3.9 | 4.9 |
| C 36 2_5.8 | 5.8 | 1.3 | 1.5 | 1.3 | 1.7 | 3.8 | 4.2 | 3.9 | 4.4 | 3.8 | 4.8 | 3.8 | 4.8 |
| C 36 2_6.8 | 6.8 | — | — | — | — | — | — | 5.1 | 5.6 | 5.0 | 6.0 | 5.0 | 6.0 |
| C 36 2_8.0 | 8.0 | — | — | — | — | — | — | 4.4 | 4.9 | 4.3 | 5.3 | 4.3 | 5.3 |
| C 36 2_8.8 | 8.8 | — | — | — | — | — | — | 4.4 | 4.9 | 4.3 | 5.3 | 4.3 | 5.3 |
| C 36 2_10.6 | 10.6 | — | — | — | — | — | — | 3.9 | 4.4 | 3.8 | 4.8 | 3.8 | 4.8 |
| C 36 2_11.7 | 11.7 | 1.3 | 1.5 | 1.3 | 1.7 | 3.8 | 4.3 | 3.9 | 4.4 | 3.8 | 4.8 | 3.8 | 4.8 |
| C 36 2_13.3 | 13.3 | 0.96 | 1.2 | 0.98 | 1.4 | 3.5 | 3.9 | 3.6 | 4.1 | 3.5 | 4.5 | 3.5 | 4.5 |
| C 36 2_14.8 | 14.8 | 0.95 | 1.2 | 0.97 | 1.4 | 3.5 | 3.9 | 3.6 | 4.1 | 3.5 | 4.5 | 3.5 | 4.5 |
| C 36 2_17.2 | 17.2 | 0.74 | 1.0 | 0.76 | 1.2 | 3.3 | 3.7 | 3.4 | 3.9 | 3.3 | 4.3 | 3.3 | 4.3 |
| C 36 2_19.0 | 19.0 | 0.74 | 1.0 | 0.76 | 1.2 | 3.3 | 3.7 | 3.4 | 3.9 | 3.3 | 4.3 | 3.3 | 4.3 |
| C 36 3_22.1 | 22.1 | — | — | — | — | — | — | 4.7 | 5.2 | 4.6 | 5.6 | 4.6 | 5.6 |
| C 36 3_26.2 | 26.2 | — | — | — | — | — | — | 4.2 | 4.7 | 4.1 | 5.1 | 4.1 | 5.1 |
| C 36 3_28.7 | 28.7 | — | — | — | — | — | — | 4.2 | 4.7 | 4.1 | 5.1 | 4.1 | 5.1 |
| C 36 3_34.6 | 34.6 | — | — | — | — | — | — | 3.8 | 4.3 | 3.7 | 4.7 | 3.7 | 4.7 |
| C 36 3_38.1 | 38.1 | 1.2 | 1.4 | 1.2 | 1.6 | 3.7 | 4.2 | 3.8 | 4.3 | 3.7 | 4.7 | 3.7 | 4.7 |
| C 36 3_43.5 | 43.5 | 0.86 | 1.1 | 0.88 | 1.3 | 3.4 | 3.8 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 |
| C 36 3_48.2 | 48.2 | 0.87 | 1.1 | 0.89 | 1.3 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 |
| C 36 3_56.2 | 56.2 | 0.68 | 0.94 | 0.70 | 1.1 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 |
| C 36 3_62.0 | 62.0 | 0.69 | 0.95 | 0.71 | 1.1 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 |
| C 36 3_70.8 | 70.8 | 0.57 | 0.83 | 0.59 | 1.0 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 |
| C 36 3_77.6 | 77.6 | 0.55 | 0.81 | 0.57 | 1.0 | 3.1 | 3.5 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 |
| C 36 3_83.1 | 83.1 | 0.51 | 0.77 | 0.53 | 0.97 | 3.1 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| C 36 3_91.9 | 91.9 | 0.48 | 0.74 | 0.50 | 0.94 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| C 36 3_102.2 | 102.2 | 0.46 | 0.72 | 0.48 | 0.92 | 3.0 | 3.4 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| C 36 3_111.5 | 111.5 | 0.43 | 0.69 | 0.45 | 0.89 | 3.0 | 3.4 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| C 36 3_125.8 | 125.8 | 0.41 | 0.67 | 0.43 | 0.87 | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| C 36 3_139.8 | 139.8 | 0.38 | 0.64 | 0.40 | 0.84 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| C 36 3_162.0 | 162.0 | 0.36 | 0.62 | 0.38 | 0.82 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| C 36 3_183.5 | 183.5 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| C 36 3_206.4 | 206.4 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| C 36 4_230.9 | 230.9 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_255.0 | 255.0 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_290.9 | 290.9 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_318.9 | 318.9 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_341.7 | 341.7 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_377.9 | 377.9 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_420.2 | 420.2 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_458.4 | 458.4 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_517.2 | 517.2 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_574.7 | 574.7 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_665.9 | 665.9 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_754.2 | 754.2 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| C 36 4_848.5 | 848.5 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |




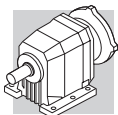
C 41

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|---|-----|
| | |  |  IEC | | | | | |  | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | |
| C 41 2_2.7 | 2.7 | 10 | — | — | 13 | 13 | 14 | 14 | 29 | 21 |
| C 41 2_3.6 | 3.6 | 6.0 | — | — | 8.9 | 8.8 | 10 | 10 | 25 | 17 |
| C 41 2_4.7 | 4.7 | 3.7 | — | — | 6.6 | 6.5 | 7.8 | 7.8 | 23 | 14 |
| C 41 2_6.0 | 6.0 | 2.5 | — | — | 5.4 | 5.3 | 6.6 | 6.6 | 21 | 13 |
| C 41 2_6.4 | 6.4 | 4.3 | — | — | 7.2 | 7.1 | 8.4 | 8.4 | 23 | 15 |
| C 41 2_7.1 | 7.1 | 4.1 | — | — | 7.0 | 6.9 | 8.2 | 8.2 | 23 | 15 |
| C 41 2_8.6 | 8.6 | 2.9 | — | — | 5.8 | 5.7 | 7.0 | 7.0 | 22 | 13 |
| C 41 2_9.6 | 9.6 | 2.8 | — | — | 5.7 | 5.6 | 6.9 | 6.9 | 22 | 13 |
| C 41 2_11.2 | 11.2 | 1.8 | — | — | 4.7 | 4.6 | 5.9 | 5.9 | 21 | 12 |
| C 41 2_12.4 | 12.4 | 1.8 | — | — | 4.7 | 4.6 | 5.9 | 5.9 | 21 | 12 |
| C 41 2_14.2 | 14.2 | 1.4 | 2.9 | 2.9 | 4.3 | 4.2 | 5.5 | 5.5 | 20 | 12 |
| C 41 2_15.8 | 15.8 | 1.3 | 2.8 | 2.8 | 4.2 | 4.1 | 5.4 | 5.4 | 20 | 12 |
| C 41 2_17.8 | 17.8 | 1.0 | 2.5 | 2.5 | 3.9 | 3.8 | 5.1 | 5.1 | 20 | 12 |
| C 41 2_19.8 | 19.8 | 0.98 | 2.5 | 2.5 | 3.9 | 3.8 | 5.1 | 5.1 | 20 | 12 |
| C 41 2_22.6 | 22.6 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 20 | 11 |
| C 41 2_25.0 | 25.0 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 20 | 11 |
| C 41 2_28.3 | 28.3 | 0.44 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 19 | 11 |
| C 41 2_31.4 | 31.4 | 0.43 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 19 | 11 |
| C 41 2_33.4 | 33.4 | 0.34 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | — | 11 |
| C 41 2_37.1 | 37.1 | 0.33 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | — | 11 |
| C 41 2_44.8 | 44.8 | 0.27 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | — | 11 |
| C 41 3_28.5 | 28.5 | 2.5 | — | — | 5.4 | 5.3 | 6.6 | 6.6 | 21 | 13 |
| C 41 3_31.2 | 31.2 | 2.5 | — | — | 5.4 | 5.3 | 6.6 | 6.6 | 21 | 13 |
| C 41 3_36.8 | 36.8 | 1.6 | — | — | 4.5 | 4.4 | 5.7 | 5.7 | 21 | 12 |
| C 41 3_40.3 | 40.3 | 1.6 | — | — | 4.5 | 4.4 | 5.7 | 5.7 | 21 | 12 |
| C 41 3_47.0 | 47.0 | 1.2 | 2.7 | 2.7 | 4.1 | 4.0 | 5.3 | 5.3 | 20 | 12 |
| C 41 3_51.5 | 51.5 | 1.2 | 2.7 | 2.7 | 4.1 | 4.0 | 5.3 | 5.3 | 20 | 12 |
| C 41 3_58.7 | 58.7 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 5.0 | 20 | 11 |
| C 41 3_64.3 | 64.3 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 5.0 | 20 | 11 |
| C 41 3_74.4 | 74.4 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 20 | 11 |
| C 41 3_81.5 | 81.5 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 20 | 11 |
| C 41 3_93.9 | 93.9 | 0.40 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 19 | 11 |
| C 41 3_102.3 | 102.3 | 0.40 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 19 | 11 |
| C 41 3_110.1 | 110.1 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | — | 11 |
| C 41 3_120.6 | 120.6 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | — | 11 |
| C 41 3_132.9 | 132.9 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | — | 11 |
| C 41 3_145.6 | 145.6 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | — | 11 |
| C 41 3_164.1 | 164.1 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | 11 |
| C 41 3_179.9 | 179.9 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | 11 |
| C 41 3_190.8 | 190.8 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 11 |
| C 41 3_209.1 | 209.1 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 11 |
| C 41 4_239.9 | 239.9 | 0.15 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | 2.1 |
| C 41 4_263.0 | 263.0 | 0.15 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | 2.1 |
| C 41 4_304.2 | 304.2 | 0.13 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_333.4 | 333.4 | 0.13 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_382.0 | 382.0 | 0.12 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_419.0 | 419.0 | 0.12 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_450.2 | 450.2 | 0.12 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_493.5 | 493.5 | 0.12 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_543.5 | 543.5 | 0.12 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_595.8 | 595.8 | 0.12 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_671.3 | 671.3 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_735.9 | 735.9 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_780.4 | 780.4 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| C 41 4_855.5 | 855.5 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.0 |






C 41

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | | | | | | | |
|--------------|-------|--|------|------------|------|-----|-----|-----|-----|--------------------|-----|-------------|-----|------|-----|--------------|----|------|----|
| | |  SERVO | | | | | | | | | | | | | | | | | |
| i | | 60A | | 60B 80A | | 80B | | 95A | | 80C 95B 110A | | 95C 110B | | 130A | | 130B 180A | | 180B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| | | C 41 2_2.7 | 2.7 | — | — | — | — | — | — | — | — | 13 | 14 | 13 | 14 | 13 | 14 | 27 | 29 |
| C 41 2_3.6 | 3.6 | — | — | — | — | — | — | — | — | 8.9 | 9.4 | 8.8 | 9.8 | 8.8 | 9.8 | 23 | 25 | 25 | 30 |
| C 41 2_4.7 | 4.7 | — | — | — | — | — | — | — | — | 6.6 | 7.1 | 6.5 | 7.5 | 6.5 | 7.5 | 21 | 23 | 23 | 28 |
| C 41 2_6.0 | 6.0 | — | — | — | — | 5.3 | 5.8 | 5.3 | 5.8 | 5.4 | 5.9 | 5.3 | 6.3 | 5.3 | 6.3 | 19 | 22 | 21 | 26 |
| C 41 2_6.4 | 6.4 | — | — | — | — | — | — | — | — | 7.2 | 7.7 | 7.1 | 8.1 | 7.1 | 8.1 | 21 | 24 | 23 | 28 |
| C 41 2_7.1 | 7.1 | — | — | — | — | — | — | — | — | 7.0 | 7.5 | 6.9 | 7.9 | 6.9 | 7.9 | 21 | 24 | 23 | 28 |
| C 41 2_8.6 | 8.6 | — | — | — | — | — | — | — | — | 5.8 | 6.3 | 5.7 | 6.7 | 5.7 | 6.7 | 20 | 22 | 22 | 27 |
| C 41 2_9.6 | 9.6 | — | — | — | — | — | — | — | — | 5.7 | 6.2 | 5.6 | 6.6 | 5.6 | 6.6 | 20 | 22 | 22 | 27 |
| C 41 2_11.2 | 11.2 | — | — | — | — | — | — | — | — | 4.7 | 5.2 | 4.6 | 5.6 | 4.6 | 5.6 | 19 | 21 | 21 | 26 |
| C 41 2_12.4 | 12.4 | — | — | — | — | — | — | — | — | 4.7 | 5.2 | 4.6 | 5.6 | 4.6 | 5.6 | 19 | 21 | 21 | 26 |
| C 41 2_14.2 | 14.2 | — | — | — | — | 4.2 | 4.7 | 4.2 | 4.7 | 4.3 | 4.8 | 4.2 | 5.2 | 4.2 | 5.2 | 18 | 21 | 20 | 25 |
| C 41 2_15.8 | 15.8 | — | — | — | — | 4.1 | 4.6 | 4.1 | 4.6 | 4.2 | 4.7 | 4.1 | 5.1 | 4.1 | 5.1 | 18 | 21 | 20 | 25 |
| C 41 2_17.8 | 17.8 | — | — | — | — | 3.8 | 5.3 | 3.8 | 5.3 | 3.9 | 4.4 | 3.8 | 4.8 | 3.8 | 4.8 | 18 | 20 | 20 | 25 |
| C 41 2_19.8 | 19.8 | — | — | — | — | 3.8 | 4.2 | 3.8 | 4.2 | 3.9 | 4.4 | 3.8 | 4.8 | 3.8 | 4.8 | 18 | 20 | 20 | 25 |
| C 41 2_22.6 | 22.6 | — | — | — | — | 3.4 | 3.9 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 | 18 | 20 | 20 | 25 |
| C 41 2_25.0 | 25.0 | — | — | — | — | 3.4 | 3.9 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 | 18 | 20 | 20 | 25 |
| C 41 2_28.3 | 28.3 | — | — | — | — | 3.3 | 3.7 | 3.3 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 | 17 | 20 | 19 | 24 |
| C 41 2_31.4 | 31.4 | — | — | — | — | 3.3 | 3.7 | 3.3 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 | 17 | 20 | 19 | 24 |
| C 41 2_33.4 | 33.4 | — | — | — | — | 3.2 | 3.6 | 3.2 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 | — | — | — | — |
| C 41 2_37.1 | 37.1 | — | — | — | — | 3.2 | 3.6 | 3.2 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 | — | — | — | — |
| C 41 2_44.8 | 44.8 | — | — | — | — | 3.1 | 3.5 | 3.1 | 3.5 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 | — | — | — | — |
| C 41 3_28.5 | 28.5 | — | — | — | — | — | — | — | — | 5.4 | 5.9 | 5.3 | 6.3 | 5.3 | 6.3 | 19 | 22 | 21 | 26 |
| C 41 3_31.2 | 31.2 | — | — | — | — | — | — | — | — | 5.4 | 5.9 | 5.3 | 6.3 | 5.3 | 6.3 | 19 | 22 | 21 | 26 |
| C 41 3_36.8 | 36.8 | — | — | — | — | — | — | — | — | 4.5 | 5.0 | 4.4 | 5.4 | 4.4 | 5.4 | 19 | 21 | 21 | 26 |
| C 41 3_40.3 | 40.3 | — | — | — | — | — | — | — | — | 4.5 | 5.0 | 4.4 | 5.4 | 4.4 | 5.4 | 19 | 21 | 21 | 26 |
| C 41 3_47.0 | 47.0 | — | — | — | — | 4.0 | 4.5 | 4.0 | 4.5 | 4.1 | 4.6 | 4.0 | 5.0 | 4.0 | 5.0 | 18 | 21 | 20 | 25 |
| C 41 3_51.5 | 51.5 | — | — | — | — | 4.0 | 4.5 | 4.0 | 4.5 | 4.1 | 4.6 | 4.0 | 5.0 | 4.0 | 5.0 | 18 | 21 | 20 | 25 |
| C 41 3_58.7 | 58.7 | — | — | — | — | 3.7 | 4.2 | 3.7 | 4.2 | 3.8 | 4.3 | 3.7 | 4.7 | 3.7 | 4.7 | 18 | 20 | 20 | 25 |
| C 41 3_64.3 | 64.3 | — | — | — | — | 3.7 | 4.2 | 3.7 | 4.2 | 3.8 | 4.3 | 3.7 | 4.7 | 3.7 | 4.7 | 18 | 20 | 20 | 25 |
| C 41 3_74.4 | 74.4 | — | — | — | — | 3.4 | 3.9 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 | 18 | 20 | 20 | 25 |
| C 41 3_81.5 | 81.5 | — | — | — | — | 3.4 | 3.9 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 | 18 | 20 | 20 | 25 |
| C 41 3_93.9 | 93.9 | — | — | — | — | 3.2 | 3.7 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 | 17 | 20 | 19 | 24 |
| C 41 3_102.3 | 102.3 | — | — | — | — | 3.2 | 3.7 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 | 17 | 20 | 19 | 24 |
| C 41 3_110.1 | 110.1 | — | — | — | — | 3.1 | 3.6 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 | — | — | — | — |
| C 41 3_120.6 | 120.6 | — | — | — | — | 3.1 | 3.6 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 | — | — | — | — |
| C 41 3_132.9 | 132.9 | — | — | — | — | 3.1 | 3.6 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 | — | — | — | — |
| C 41 3_145.6 | 145.6 | — | — | — | — | 3.1 | 3.6 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 | — | — | — | — |
| C 41 3_164.1 | 164.1 | — | — | — | — | 3.0 | 3.5 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 | — | — | — | — |
| C 41 3_179.9 | 179.9 | — | — | — | — | 3.0 | 3.5 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 | — | — | — | — |
| C 41 3_190.8 | 190.8 | — | — | — | — | 2.9 | 3.4 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 | — | — | — | — |
| C 41 3_209.1 | 209.1 | — | — | — | — | 2.9 | 3.4 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 | — | — | — | — |
| C 41 4_239.9 | 239.9 | 0.42 | 0.68 | 0.44 | 0.88 | — | — | 3.0 | 3.4 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — | — | — |
| C 41 4_263.0 | 263.0 | 0.42 | 0.68 | 0.44 | 0.88 | — | — | 3.0 | 3.4 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — | — | — |
| C 41 4_304.2 | 304.2 | 0.40 | 0.66 | 0.42 | 0.86 | — | — | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_333.4 | 333.4 | 0.40 | 0.66 | 0.42 | 0.86 | — | — | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_382.0 | 382.0 | 0.39 | 0.65 | 0.41 | 0.85 | — | — | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_419.0 | 419.0 | 0.39 | 0.65 | 0.41 | 0.85 | — | — | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_450.2 | 450.2 | 0.39 | 0.65 | 0.41 | 0.85 | — | — | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_493.5 | 493.5 | 0.39 | 0.65 | 0.41 | 0.85 | — | — | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_543.5 | 543.5 | 0.39 | 0.65 | 0.41 | 0.85 | — | — | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_595.8 | 595.8 | 0.39 | 0.65 | 0.41 | 0.85 | — | — | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_671.3 | 671.3 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_735.9 | 735.9 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_780.4 | 780.4 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |
| C 41 4_855.5 | 855.5 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — | — | — |




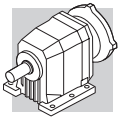
C 51

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|---|-----|
| | |  |  IEC | | | | | | | |  | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | | 180 |
| C 51 2_2.6 | 2.6 | 15 | — | — | 17 | 17 | 19 | 19 | 33 | 79 | 76 | 25 |
| C 51 2_3.3 | 3.3 | 10 | — | — | 13 | 13 | 14 | 14 | 29 | 75 | 72 | 21 |
| C 51 2_4.5 | 4.5 | 6.3 | — | — | 9.2 | 9.1 | 10 | 10 | 25 | 71 | 68 | 17 |
| C 51 2_5.6 | 5.6 | 4.1 | — | — | 7.0 | 6.9 | 8.2 | 8.2 | 23 | 69 | 66 | 15 |
| C 51 2_7.0 | 7.0 | 8.1 | — | — | 11 | 11 | 12 | 12 | 27 | 73 | 70 | 19 |
| C 51 2_7.8 | 7.8 | 7.8 | — | — | 11 | 11 | 12 | 12 | 27 | 73 | 70 | 18 |
| C 51 2_8.8 | 8.8 | 6.0 | — | — | 8.9 | 8.8 | 10 | 10 | 25 | 71 | 68 | 17 |
| C 51 2_9.8 | 9.8 | 5.8 | — | — | 8.7 | 8.6 | 9.9 | 9.9 | 25 | 71 | 68 | 16 |
| C 51 2_11.8 | 11.8 | 4.1 | — | — | 7.0 | 6.9 | 8.2 | 8.2 | 23 | 69 | 66 | 15 |
| C 51 2_13.1 | 13.1 | 4.0 | — | — | 6.9 | 6.8 | 8.1 | 8.1 | 23 | 69 | 66 | 15 |
| C 51 2_15.0 | 15.0 | 2.7 | — | — | 5.6 | 5.5 | 6.8 | 6.8 | 22 | 68 | 65 | 13 |
| C 51 2_16.6 | 16.6 | 2.6 | — | — | 5.5 | 5.4 | 6.7 | 6.7 | 22 | 68 | 65 | 13 |
| C 51 2_18.9 | 18.9 | 2.0 | 3.5 | 3.5 | 4.9 | 4.8 | 6.1 | 6.1 | 21 | 67 | 64 | 13 |
| C 51 2_21.0 | 21.0 | 1.9 | 3.4 | 3.4 | 4.8 | 4.7 | 6.0 | 6.0 | 21 | 67 | 64 | 12 |
| C 51 2_23.4 | 23.4 | 1.5 | 3.0 | 3.0 | 4.4 | 4.3 | 5.6 | 5.6 | 20 | 66 | 63 | 12 |
| C 51 2_25.9 | 25.9 | 1.4 | 2.9 | 2.9 | 4.3 | 4.2 | 5.5 | 5.5 | 20 | 66 | 63 | 12 |
| C 51 2_29.8 | 29.8 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 5.0 | 20 | 66 | 63 | 11 |
| C 51 2_33.0 | 33.0 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 5.0 | 20 | 66 | 63 | 11 |
| C 51 2_36.4 | 36.4 | 0.70 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | 20 | 66 | 63 | 11 |
| C 51 2_40.4 | 40.4 | 0.70 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | 20 | 66 | 63 | 11 |
| C 51 2_43.1 | 43.1 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 |
| C 51 2_47.8 | 47.8 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 |
| C 51 2_51.4 | 51.4 | 0.40 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | — | — | — | 11 |
| C 51 2_57.0 | 57.0 | 0.40 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | — | — | — | 11 |
| C 51 3_21.8 | 21.8 | 6.8 | — | — | 9.7 | 9.6 | 11 | 11 | 26 | 72 | 69 | 17 |
| C 51 3_23.9 | 23.9 | 6.8 | — | — | 9.7 | 9.6 | 11 | 11 | 26 | 72 | 69 | 17 |
| C 51 3_27.4 | 27.4 | 5.2 | — | — | 8.1 | 8.0 | 9.3 | 9.3 | 24 | 70 | 67 | 16 |
| C 51 3_30.1 | 30.1 | 5.2 | — | — | 8.1 | 8.0 | 9.3 | 9.3 | 24 | 70 | 67 | 16 |
| C 51 3_37.0 | 37.0 | 3.6 | — | — | 6.5 | 6.4 | 7.7 | 7.7 | 23 | 69 | 66 | 14 |
| C 51 3_40.5 | 40.5 | 3.6 | — | — | 6.5 | 6.4 | 7.7 | 7.7 | 23 | 69 | 66 | 14 |
| C 51 3_46.7 | 46.7 | 2.4 | — | — | 5.3 | 5.2 | 6.5 | 6.5 | 21 | 67 | 64 | 13 |
| C 51 3_51.2 | 51.2 | 2.4 | — | — | 5.3 | 5.2 | 6.5 | 6.5 | 21 | 67 | 64 | 13 |
| C 51 3_59.0 | 59.0 | 1.8 | 3.3 | 3.3 | 4.7 | 4.6 | 5.9 | 5.9 | 21 | 67 | 64 | 12 |
| C 51 3_64.6 | 64.6 | 1.8 | 3.3 | 3.3 | 4.7 | 4.6 | 5.9 | 5.9 | 21 | 67 | 64 | 12 |
| C 51 3_72.9 | 72.9 | 1.3 | 2.8 | 2.8 | 4.2 | 4.1 | 5.4 | 5.4 | 20 | 66 | 63 | 12 |
| C 51 3_79.9 | 79.9 | 1.3 | 2.8 | 2.8 | 4.2 | 4.1 | 5.4 | 5.4 | 20 | 66 | 63 | 12 |
| C 51 3_93.0 | 93.0 | 0.80 | 2.3 | 2.3 | 3.7 | 3.6 | 4.9 | 4.9 | 20 | 66 | 63 | 11 |
| C 51 3_101.8 | 101.8 | 0.80 | 2.3 | 2.3 | 3.7 | 3.6 | 4.9 | 4.9 | 20 | 66 | 63 | 11 |
| C 51 3_113.6 | 113.6 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 20 | 66 | 63 | 11 |
| C 51 3_124.4 | 124.4 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 20 | 66 | 63 | 11 |
| C 51 3_134.6 | 134.6 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 |
| C 51 3_147.4 | 147.4 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 |
| C 51 3_160.5 | 160.5 | 0.40 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | — | — | — | 11 |
| C 51 3_175.8 | 175.8 | 0.40 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | — | — | — | 11 |
| C 51 3_197.9 | 197.9 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | — | — | — | 11 |
| C 51 3_216.7 | 216.7 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | — | — | — | 11 |
| C 51 4_240.9 | 240.9 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 17 | — | — | 1.2 |
| C 51 4_263.8 | 263.8 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 17 | — | — | 1.2 |
| C 51 4_297.8 | 297.8 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 17 | — | — | 1.2 |
| C 51 4_326.1 | 326.1 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 17 | — | — | 1.2 |
| C 51 4_380.0 | 380.0 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 17 | — | — | 1.1 |
| C 51 4_416.0 | 416.0 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 17 | — | — | 1.1 |
| C 51 4_463.9 | 463.9 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 17 | — | — | 1.1 |
| C 51 4_508.0 | 508.0 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 17 | — | — | 1.1 |
| C 51 4_549.7 | 549.7 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | — | — | 1.1 |
| C 51 4_602.0 | 602.0 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | — | — | 1.1 |
| C 51 4_655.4 | 655.4 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | — | — | 1.1 |
| C 51 4_717.7 | 717.7 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | — | — | 1.1 |
| C 51 4_808.0 | 808.0 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | — | — | 1.1 |
| C 51 4_884.9 | 884.9 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | — | — | 1.1 |



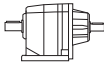


C 51

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | |
|--------------|-------|--|-----|-----|-----|--------------------|-----|---------------------|-----|--------------|----|------|----|
| | |  SERVO | | | | | | | | | | | |
| i | | 80B | | 95A | | 80C 95B 110A | | 95C 110B 130A | | 130B 180A | | 180B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| C 51 2_2.6 | 2.6 | — | — | — | — | 17 | 18 | 17 | 18 | 32 | 34 | 33 | 38 |
| C 51 2_3.3 | 3.3 | — | — | — | — | 13 | 14 | 13 | 14 | 27 | 29 | 29 | 34 |
| C 51 2_4.5 | 4.5 | — | — | — | — | 9.2 | 9.7 | 9.1 | 10 | 23 | 26 | 25 | 30 |
| C 51 2_5.6 | 5.6 | — | — | — | — | 7.0 | 7.5 | 6.9 | 7.9 | 21 | 24 | 23 | 28 |
| C 51 2_7.0 | 7.0 | — | — | — | — | 11 | 12 | 11 | 12 | 25 | 28 | 27 | 32 |
| C 51 2_7.8 | 7.8 | — | — | — | — | 11 | 12 | 11 | 12 | 25 | 27 | 27 | 32 |
| C 51 2_8.8 | 8.8 | — | — | — | — | 8.9 | 9.4 | 8.8 | 9.8 | 23 | 25 | 25 | 30 |
| C 51 2_9.8 | 9.8 | — | — | — | — | 8.7 | 9.2 | 8.6 | 9.6 | 23 | 25 | 25 | 30 |
| C 51 2_11.8 | 11.8 | — | — | — | — | 7.0 | 7.5 | 6.9 | 7.9 | 21 | 24 | 23 | 28 |
| C 51 2_13.1 | 13.1 | — | — | — | — | 6.9 | 7.4 | 6.8 | 7.8 | 21 | 23 | 23 | 28 |
| C 51 2_15.0 | 15.0 | — | — | — | — | 5.6 | 6.1 | 5.5 | 6.5 | 20 | 22 | 22 | 27 |
| C 51 2_16.6 | 16.6 | — | — | — | — | 5.5 | 6.0 | 5.4 | 6.4 | 20 | 22 | 22 | 27 |
| C 51 2_18.9 | 18.9 | 4.8 | 5.3 | 4.8 | 5.3 | 4.9 | 5.4 | 4.8 | 5.8 | 19 | 21 | 21 | 26 |
| C 51 2_21.0 | 21.0 | 4.7 | 5.2 | 4.7 | 5.2 | 4.8 | 5.3 | 4.7 | 5.7 | 19 | 21 | 21 | 26 |
| C 51 2_23.4 | 23.4 | 4.3 | 4.8 | 4.3 | 4.8 | 4.4 | 4.3 | 4.3 | 5.3 | 18 | 21 | 20 | 25 |
| C 51 2_25.9 | 25.9 | 4.2 | 4.7 | 4.2 | 4.7 | 4.3 | 4.8 | 4.2 | 5.2 | 18 | 21 | 20 | 25 |
| C 51 2_29.8 | 29.8 | 3.7 | 4.2 | 3.7 | 4.2 | 3.8 | 4.3 | 3.7 | 4.7 | 18 | 20 | 20 | 25 |
| C 51 2_33.0 | 33.0 | 3.7 | 4.2 | 3.7 | 4.2 | 3.8 | 4.3 | 3.7 | 4.7 | 18 | 20 | 20 | 25 |
| C 51 2_36.4 | 36.4 | 3.5 | 4.0 | 3.5 | 4.0 | 3.6 | 4.1 | 3.5 | 4.5 | 18 | 20 | 20 | 25 |
| C 51 2_40.4 | 40.4 | 3.5 | 4.0 | 3.5 | 4.0 | 3.6 | 4.1 | 3.5 | 4.5 | 18 | 20 | 20 | 25 |
| C 51 2_43.1 | 43.1 | 3.3 | 3.8 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 51 2_47.8 | 47.8 | 3.3 | 3.8 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 51 2_51.4 | 51.4 | 3.2 | 3.7 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | — | — | — | — |
| C 51 2_57.0 | 57.0 | 3.2 | 3.7 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | — | — | — | — |
| C 51 3_21.8 | 21.8 | — | — | — | — | 9.7 | 10 | 9.6 | 11 | 24 | 26 | 26 | 31 |
| C 51 3_23.9 | 23.9 | — | — | — | — | 9.7 | 10 | 9.6 | 11 | 24 | 26 | 26 | 31 |
| C 51 3_27.4 | 27.4 | — | — | — | — | 8.1 | 8.6 | 8.0 | 9.0 | 22 | 25 | 24 | 29 |
| C 51 3_30.1 | 30.1 | — | — | — | — | 8.1 | 8.6 | 8.0 | 9.0 | 22 | 25 | 24 | 29 |
| C 51 3_37.0 | 37.0 | — | — | — | — | 6.5 | 7.0 | 6.4 | 7.4 | 21 | 23 | 23 | 28 |
| C 51 3_40.5 | 40.5 | — | — | — | — | 6.5 | 7.0 | 6.4 | 7.4 | 21 | 23 | 23 | 28 |
| C 51 3_46.7 | 46.7 | — | — | — | — | 5.3 | 5.8 | 5.2 | 6.2 | 19 | 22 | 21 | 26 |
| C 51 3_51.2 | 51.2 | — | — | — | — | 5.3 | 5.8 | 5.2 | 6.2 | 19 | 22 | 21 | 26 |
| C 51 3_59.0 | 59.0 | 4.6 | 5.1 | 4.6 | 5.1 | 4.7 | 5.2 | 4.6 | 5.6 | 19 | 21 | 21 | 26 |
| C 51 3_64.6 | 64.6 | 4.6 | 5.1 | 4.6 | 5.1 | 4.7 | 5.2 | 4.6 | 5.6 | 19 | 21 | 21 | 26 |
| C 51 3_72.9 | 72.9 | 4.1 | 4.6 | 4.1 | 4.6 | 4.2 | 5.2 | 4.1 | 5.1 | 18 | 21 | 20 | 25 |
| C 51 3_79.9 | 79.9 | 4.1 | 4.6 | 4.1 | 4.6 | 4.2 | 5.2 | 4.1 | 5.1 | 18 | 21 | 20 | 25 |
| C 51 3_93.0 | 93.0 | 3.6 | 4.1 | 3.6 | 4.1 | 3.7 | 4.2 | 3.6 | 4.6 | 18 | 20 | 20 | 25 |
| C 51 3_101.8 | 101.8 | 3.6 | 4.1 | 3.6 | 4.1 | 3.7 | 4.2 | 3.6 | 4.6 | 18 | 20 | 20 | 25 |
| C 51 3_113.6 | 113.6 | 3.4 | 3.9 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 18 | 20 | 20 | 25 |
| C 51 3_124.4 | 124.4 | 3.4 | 3.9 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 18 | 20 | 20 | 25 |
| C 51 3_134.6 | 134.6 | 3.3 | 3.8 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 51 3_147.4 | 147.4 | 3.3 | 3.8 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 51 3_160.5 | 160.5 | 3.2 | 3.7 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | — | — | — | — |
| C 51 3_175.8 | 175.8 | 3.2 | 3.7 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | — | — | — | — |
| C 51 3_197.9 | 197.9 | 3.1 | 3.6 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | — | — | — | — |
| C 51 3_216.7 | 216.7 | 3.1 | 3.6 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | — | — | — | — |
| C 51 4_240.9 | 240.9 | — | — | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | — | — | — | — |
| C 51 4_263.8 | 263.8 | — | — | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | — | — | — | — |
| C 51 4_297.8 | 297.8 | — | — | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | — | — | — | — |
| C 51 4_326.1 | 326.1 | — | — | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | — | — | — | — |
| C 51 4_380.0 | 380.0 | — | — | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| C 51 4_416.0 | 416.0 | — | — | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| C 51 4_463.9 | 463.9 | — | — | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| C 51 4_508.0 | 508.0 | — | — | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| C 51 4_549.7 | 549.7 | — | — | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| C 51 4_602.0 | 602.0 | — | — | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| C 51 4_655.4 | 655.4 | — | — | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| C 51 4_717.7 | 717.7 | — | — | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| C 51 4_808.0 | 808.0 | — | — | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| C 51 4_884.9 | 884.9 | — | — | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |




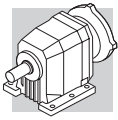
C 61

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|---|-----|----|
| | |  |  IEC | | | | | | | |  | | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | | 180 | |
| C 61 2_2.8 | 2.8 | 30 | — | — | — | — | — | — | — | 49 | 78 | 76 | 52 |
| C 61 2_3.7 | 3.7 | 19 | — | — | 22 | 22 | 23 | 23 | 38 | 78 | 76 | 41 | |
| C 61 2_4.6 | 4.6 | 14 | — | — | 17 | 17 | 18 | 18 | 33 | 78 | 76 | 36 | |
| C 61 2_6.0 | 6.0 | 8.8 | — | — | 12 | 12 | 13 | 13 | 28 | 78 | 76 | 31 | |
| C 61 2_6.7 | 6.7 | 14 | — | — | — | — | — | — | 33 | 78 | 76 | 36 | |
| C 61 2_7.5 | 7.5 | 13 | — | — | — | — | — | — | 32 | 78 | 76 | 35 | |
| C 61 2_8.8 | 8.8 | 13 | — | — | 16 | 16 | 17 | 17 | 32 | 78 | 76 | 35 | |
| C 61 2_9.8 | 9.8 | 12 | — | — | 15 | 15 | 16 | 16 | 31 | 78 | 76 | 34 | |
| C 61 2_10.9 | 10.9 | 9.6 | — | — | 13 | 12 | 14 | 14 | 29 | 78 | 76 | 31 | |
| C 61 2_12.1 | 12.1 | 9.2 | — | — | 12 | 12 | 13 | 13 | 28 | 78 | 76 | 31 | |
| C 61 2_14.3 | 14.3 | 5.8 | — | — | 8.7 | 8.6 | 9.9 | 9.9 | 25 | 78 | 76 | 28 | |
| C 61 2_15.9 | 15.9 | 5.6 | — | — | 8.5 | 8.4 | 9.7 | 9.7 | 25 | 78 | 76 | 27 | |
| C 61 2_17.7 | 17.7 | 4.4 | — | — | 7.3 | 7.2 | 8.5 | 8.5 | 23 | 78 | 76 | 26 | |
| C 61 2_19.6 | 19.6 | 4.3 | — | — | 7.2 | 7.1 | 8.4 | 8.4 | 23 | 78 | 76 | 26 | |
| C 61 2_22.4 | 22.4 | 3.2 | 4.7 | 4.7 | 6.1 | 6.0 | 7.3 | 7.3 | 22 | 78 | 76 | 25 | |
| C 61 2_24.8 | 24.8 | 3.1 | 4.6 | 4.6 | 6.0 | 5.9 | 7.2 | 7.2 | 22 | 78 | 76 | 25 | |
| C 61 2_27.4 | 27.4 | 2.1 | 3.6 | 3.6 | 5.0 | 4.9 | 6.2 | 6.2 | 21 | 78 | 76 | 24 | |
| C 61 2_30.4 | 30.4 | 2.2 | 3.7 | 3.7 | 5.1 | 5.0 | 6.3 | 6.3 | 21 | 78 | 76 | 24 | |
| C 61 2_34.2 | 34.2 | 1.5 | 3.0 | 3.0 | 4.4 | 4.3 | 5.6 | 5.6 | 20 | 78 | 76 | 23 | |
| C 61 2_38.0 | 38.0 | 1.5 | 3.0 | 3.0 | 4.4 | 4.3 | 5.6 | 5.6 | 20 | 78 | 76 | 23 | |
| C 61 3_26.8 | 26.8 | 10 | — | — | 13 | 13 | 14 | 14 | 29 | 78 | 76 | 32 | |
| C 61 3_29.4 | 29.4 | 10 | — | — | 13 | 13 | 14 | 14 | 29 | 78 | 76 | 32 | |
| C 61 3_33.0 | 33.0 | 8.1 | — | — | 11 | 11 | 12 | 12 | 27 | 78 | 76 | 30 | |
| C 61 3_36.1 | 36.1 | 8.1 | — | — | 11 | 11 | 12 | 12 | 27 | 78 | 76 | 30 | |
| C 61 3_43.4 | 43.4 | 5.0 | — | — | 7.9 | 7.8 | 9.1 | 9.1 | 24 | 78 | 76 | 27 | |
| C 61 3_47.6 | 47.6 | 5.0 | — | — | 7.9 | 7.8 | 9.1 | 9.1 | 24 | 78 | 76 | 27 | |
| C 61 3_53.5 | 53.5 | 3.9 | — | — | 6.8 | 6.7 | 8.0 | 8.0 | 23 | 78 | 76 | 26 | |
| C 61 3_58.6 | 58.6 | 3.8 | — | — | 6.7 | 6.6 | 7.9 | 7.9 | 23 | 78 | 76 | 26 | |
| C 61 3_67.7 | 67.7 | 2.8 | 4.3 | 4.3 | 5.7 | 5.6 | 6.9 | 6.9 | 22 | 78 | 76 | 25 | |
| C 61 3_74.2 | 74.2 | 2.8 | 4.3 | 4.3 | 5.7 | 5.6 | 6.9 | 6.9 | 22 | 78 | 76 | 25 | |
| C 61 3_83.0 | 83.0 | 1.9 | 3.4 | 3.4 | 4.8 | 4.7 | 6.0 | 6.0 | 21 | 78 | 76 | 24 | |
| C 61 3_91.0 | 91.0 | 1.9 | 3.4 | 3.4 | 4.8 | 4.7 | 6.0 | 6.0 | 21 | 78 | 76 | 24 | |
| C 61 3_103.6 | 103.6 | 1.3 | 2.8 | 2.8 | 4.2 | 4.1 | 5.4 | 5.4 | 20 | 78 | 76 | 23 | |
| C 61 3_113.6 | 113.6 | 1.3 | 2.8 | 2.8 | 4.2 | 4.1 | 5.4 | 5.4 | 20 | 78 | 76 | 23 | |
| C 61 3_128.1 | 128.1 | 1.0 | 2.5 | 2.5 | 3.9 | 3.8 | 5.1 | 5.1 | 20 | 78 | 76 | 23 | |
| C 61 3_140.5 | 140.5 | 1.0 | 2.5 | 2.5 | 3.9 | 3.8 | 5.1 | 5.1 | 20 | 78 | 76 | 23 | |
| C 61 3_150.0 | 150.0 | 0.70 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | — | — | — | 23 | |
| C 61 3_164.5 | 164.5 | 0.70 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | — | — | — | 23 | |
| C 61 3_178.6 | 178.6 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | — | — | — | 22 | |
| C 61 3_195.8 | 195.8 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | — | — | — | 22 | |
| C 61 4_217.4 | 217.4 | 0.67 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | — | — | — | 11 | |
| C 61 4_238.3 | 238.3 | 0.67 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | — | — | — | 11 | |
| C 61 4_275.3 | 275.3 | 0.81 | 2.3 | 2.3 | 3.7 | 3.6 | 4.9 | 4.9 | — | — | — | 11 | |
| C 61 4_301.7 | 301.7 | 0.81 | 2.3 | 2.3 | 3.7 | 3.6 | 4.9 | 4.9 | — | — | — | 11 | |
| C 61 4_337.7 | 337.7 | 0.56 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | — | — | — | 11 | |
| C 61 4_370.1 | 370.1 | 0.56 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | — | — | — | 11 | |
| C 61 4_421.5 | 421.5 | 0.53 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 | |
| C 61 4_462.0 | 462.0 | 0.53 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 | |
| C 61 4_521.1 | 521.1 | 0.51 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 | |
| C 61 4_571.2 | 571.2 | 0.51 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 | |
| C 61 4_610.1 | 610.1 | 0.49 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 | |
| C 61 4_668.8 | 668.8 | 0.49 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 | |
| C 61 4_726.3 | 726.3 | 0.48 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 | |
| C 61 4_796.1 | 796.1 | 0.48 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 | |


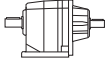


C 61

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | |
|--------------|-------|--|-----|-----|-----|--------------------|-----|---------------------|-----|--------------|----|------|----|
| | |  SERVO | | | | | | | | | | | |
| | i | 80B | | 95A | | 80C 95B 110A | | 95C 110B 130A | | 130B 180A | | 180B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| C 61 2_2.8 | 2.8 | — | — | — | — | — | — | — | — | 47 | 49 | 49 | 54 |
| C 61 2_3.7 | 3.7 | — | — | — | — | 22 | 23 | 22 | 23 | 36 | 38 | 38 | 43 |
| C 61 2_4.6 | 4.6 | — | — | — | — | 17 | 18 | 17 | 18 | 31 | 33 | 33 | 38 |
| C 61 2_6.0 | 6.0 | — | — | — | — | 12 | 13 | 12 | 13 | 26 | 28 | 28 | 33 |
| C 61 2_6.7 | 6.7 | — | — | — | — | — | — | — | — | 31 | 33 | 33 | 38 |
| C 61 2_7.5 | 7.5 | — | — | — | — | — | — | — | — | 30 | 32 | 32 | 37 |
| C 61 2_8.8 | 8.8 | — | — | — | — | 16 | 17 | 16 | 17 | 30 | 32 | 32 | 37 |
| C 61 2_9.8 | 9.8 | — | — | — | — | 15 | 16 | 15 | 16 | 23 | 31 | 31 | 36 |
| C 61 2_10.9 | 10.9 | — | — | — | — | 13 | 14 | 12 | 13 | 27 | 29 | 29 | 34 |
| C 61 2_12.1 | 12.1 | — | — | — | — | 12 | 13 | 12 | 13 | 26 | 29 | 28 | 33 |
| C 61 2_14.3 | 14.3 | — | — | — | — | 8.7 | 9.2 | 8.6 | 9.6 | 23 | 25 | 25 | 30 |
| C 61 2_15.9 | 15.9 | — | — | — | — | 8.5 | 9.0 | 8.4 | 9.4 | 23 | 25 | 25 | 30 |
| C 61 2_17.7 | 17.7 | — | — | — | — | 7.3 | 7.8 | 7.2 | 8.2 | 21 | 24 | 23 | 28 |
| C 61 2_19.6 | 19.6 | — | — | — | — | 7.2 | 7.7 | 7.1 | 8.1 | 21 | 24 | 23 | 28 |
| C 61 2_22.4 | 22.4 | — | — | 6.0 | 6.5 | 6.1 | 6.6 | 6.0 | 7.0 | 20 | 23 | 22 | 27 |
| C 61 2_24.8 | 24.8 | — | — | 5.9 | 6.4 | 6.0 | 6.5 | 5.9 | 6.9 | 20 | 23 | 22 | 27 |
| C 61 2_27.4 | 27.4 | — | — | 4.9 | 5.4 | 5.0 | 5.5 | 4.9 | 5.9 | 19 | 22 | 21 | 26 |
| C 61 2_30.4 | 30.4 | — | — | 5.0 | 5.5 | 5.1 | 5.6 | 5.0 | 6.0 | 19 | 22 | 21 | 26 |
| C 61 2_34.2 | 34.2 | — | — | 4.3 | 4.8 | 4.4 | 4.9 | 4.3 | 5.3 | 18 | 21 | 20 | 25 |
| C 61 2_38.0 | 38.0 | — | — | 4.3 | 4.8 | 4.4 | 4.9 | 4.3 | 5.3 | 18 | 21 | 20 | 25 |
| C 61 3_26.8 | 26.8 | — | — | — | — | 13 | 14 | 13 | 14 | 27 | 29 | 29 | 34 |
| C 61 3_29.4 | 29.4 | — | — | — | — | 13 | 14 | 13 | 14 | 27 | 29 | 29 | 34 |
| C 61 3_33.0 | 33.0 | — | — | — | — | 11 | 12 | 11 | 12 | 25 | 28 | 27 | 32 |
| C 61 3_36.1 | 36.1 | — | — | — | — | 11 | 12 | 11 | 12 | 25 | 28 | 27 | 32 |
| C 61 3_43.4 | 43.4 | — | — | — | — | 7.9 | 8.4 | 7.8 | 8.8 | 22 | 24 | 24 | 29 |
| C 61 3_47.6 | 47.6 | — | — | — | — | 7.9 | 8.4 | 7.8 | 8.8 | 22 | 24 | 24 | 29 |
| C 61 3_53.5 | 53.5 | — | — | — | — | 6.8 | 7.3 | 6.7 | 7.7 | 21 | 23 | 23 | 28 |
| C 61 3_58.6 | 58.6 | — | — | — | — | 6.7 | 7.2 | 6.6 | 7.6 | 21 | 23 | 23 | 28 |
| C 61 3_67.7 | 67.7 | — | — | 5.6 | 6.1 | 5.7 | 6.2 | 5.6 | 6.6 | 20 | 22 | 22 | 27 |
| C 61 3_74.2 | 74.2 | — | — | 5.6 | 6.1 | 5.7 | 6.2 | 5.6 | 6.6 | 20 | 22 | 22 | 27 |
| C 61 3_83.0 | 83.0 | — | — | 4.7 | 5.2 | 4.8 | 5.3 | 4.7 | 5.7 | 19 | 21 | 21 | 26 |
| C 61 3_91.0 | 91.0 | — | — | 4.7 | 5.2 | 4.8 | 5.3 | 4.7 | 5.7 | 19 | 21 | 21 | 26 |
| C 61 3_103.6 | 103.6 | — | — | 4.1 | 4.6 | 4.2 | 4.7 | 4.1 | 5.1 | 18 | 21 | 20 | 25 |
| C 61 3_113.6 | 113.6 | — | — | 4.1 | 4.6 | 4.2 | 4.7 | 4.1 | 5.1 | 18 | 21 | 20 | 25 |
| C 61 3_128.1 | 128.1 | — | — | 3.8 | 4.3 | 3.9 | 4.4 | 3.8 | 4.8 | 18 | 20 | 20 | 25 |
| C 61 3_140.5 | 140.5 | — | — | 3.8 | 4.3 | 3.9 | 4.4 | 3.8 | 4.8 | 18 | 20 | 20 | 25 |
| C 61 3_150.0 | 150.0 | — | — | 3.5 | 4.0 | 3.6 | 4.1 | 3.5 | 4.5 | — | — | — | — |
| C 61 3_164.5 | 164.5 | — | — | 3.5 | 4.0 | 3.6 | 4.1 | 3.5 | 4.5 | — | — | — | — |
| C 61 3_178.6 | 178.6 | — | — | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | — | — | — | — |
| C 61 3_195.8 | 195.8 | — | — | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | — | — | — | — |
| C 61 4_217.4 | 217.4 | 3.5 | 3.9 | 3.5 | 3.9 | 3.6 | 4.1 | 3.5 | 4.5 | — | — | — | — |
| C 61 4_238.3 | 238.3 | 3.5 | 3.9 | 3.5 | 3.9 | 3.6 | 4.1 | 3.5 | 4.5 | — | — | — | — |
| C 61 4_275.3 | 275.3 | 3.6 | 4.1 | 3.6 | 4.1 | 3.7 | 4.2 | 3.6 | 4.6 | — | — | — | — |
| C 61 4_301.7 | 301.7 | 3.6 | 4.1 | 3.6 | 4.1 | 3.7 | 4.2 | 3.6 | 4.6 | — | — | — | — |
| C 61 4_337.7 | 337.7 | 3.4 | 3.8 | 3.4 | 3.8 | 3.5 | 4.0 | 3.4 | 4.4 | — | — | — | — |
| C 61 4_370.1 | 370.1 | 3.4 | 3.8 | 3.4 | 3.8 | 3.5 | 4.0 | 3.4 | 4.4 | — | — | — | — |
| C 61 4_421.5 | 421.5 | 3.4 | 3.8 | 3.4 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 61 4_462.0 | 462.0 | 3.4 | 3.8 | 3.4 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 61 4_521.1 | 521.1 | 3.3 | 3.8 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 61 4_571.2 | 571.2 | 3.3 | 3.8 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 61 4_610.1 | 610.1 | 3.3 | 3.7 | 3.3 | 3.7 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 61 4_668.8 | 668.8 | 3.3 | 3.7 | 3.3 | 3.7 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 61 4_726.3 | 726.3 | 3.3 | 3.7 | 3.3 | 3.7 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| C 61 4_796.1 | 796.1 | 3.3 | 3.7 | 3.3 | 3.7 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |






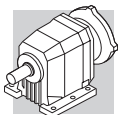
C 70

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | | | | | | | |
|--------------|-------|---|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|-----|-----|---|
| | |  | 63 | 71 | 80 | 90 | 100 112 | 132 | 160 | 180 | 200 | 225 | 250 | 280 |  |
| C 70 2_4.6 | 4.6 | — | — | — | — | — | — | — | 136 | 133 | 143 | — | — | — | 99 |
| C 70 2_5.9 | 5.9 | — | — | — | — | — | — | — | 119 | 117 | 126 | — | — | — | 32 |
| C 70 2_6.3 | 6.3 | — | — | — | — | — | — | — | 129 | 127 | 136 | — | — | — | 93 |
| C 70 2_7.5 | 7.5 | 26 | — | — | — | — | — | 45 | 105 | 102 | 112 | — | — | — | 68 |
| C 70 2_8.0 | 8.0 | — | — | — | — | — | — | — | 115 | 113 | 122 | — | — | — | 78 |
| C 70 2_9.5 | 9.5 | 19 | — | — | — | — | — | 38 | 97 | 95 | — | — | — | — | 60 |
| C 70 2_10.2 | 10.2 | 24 | — | — | — | — | — | 43 | 102 | 100 | 109 | — | — | — | 65 |
| C 70 2_11.2 | 11.2 | 15 | — | — | — | — | — | 34 | 94 | 91 | — | — | — | — | 56 |
| C 70 2_13.0 | 13.0 | 17 | — | — | — | — | — | 36 | 95 | 93 | — | — | — | — | 58 |
| C 70 2_14.1 | 14.1 | 9.9 | — | — | 12 | 12 | 14 | 29 | 88 | 86 | — | — | — | — | 51 |
| C 70 2_15.3 | 15.3 | 14 | — | — | — | — | — | 33 | 93 | 90 | — | — | — | — | 55 |
| C 70 2_16.7 | 16.7 | 6.9 | — | — | 9.5 | 9.4 | 11 | 26 | 85 | 83 | — | — | — | — | 48 |
| C 70 2_19.3 | 19.3 | 9.1 | — | — | 12 | 12 | 13 | 28 | 87 | 85 | — | — | — | — | 50 |
| C 70 2_22.9 | 22.9 | 6.4 | — | — | 9.0 | 8.9 | 10 | 25 | 85 | 83 | — | — | — | — | 48 |
| C 70 2_27.7 | 27.7 | 5.2 | — | — | 8.0 | 7.9 | 9.2 | 24 | 84 | 81 | — | — | — | — | 46 |
| C 70 2_34.7 | 34.7 | 3.2 | — | — | 6.1 | 6.0 | 7.3 | 22 | 82 | 79 | — | — | — | — | 44 |
| C 70 3_41.3 | 41.3 | 4.4 | — | — | 7.2 | 7.2 | 8.5 | 23 | 83 | 80 | — | — | — | — | 46 |
| C 70 3_44.7 | 44.7 | 4.2 | — | — | 7.0 | 7.0 | 8.2 | 23 | 83 | 80 | — | — | — | — | 45 |
| C 70 3_52.2 | 52.2 | 3.0 | — | — | 5.8 | 5.8 | 7.0 | 22 | 81 | 79 | — | — | — | — | 44 |
| C 70 3_56.5 | 56.5 | 2.8 | — | — | 5.7 | 5.6 | 6.9 | 22 | 81 | 79 | — | — | — | — | 44 |
| C 70 3_65.9 | 65.9 | 2.0 | — | — | 4.9 | 4.8 | 6.1 | 21 | 80 | 78 | — | — | — | — | 43 |
| C 70 3_71.3 | 71.3 | 2.0 | — | — | 4.8 | 4.8 | 6.0 | 21 | 80 | 78 | — | — | — | — | 43 |
| C 70 3_81.4 | 81.4 | 1.5 | — | — | 4.3 | 4.3 | 5.6 | 20 | 80 | 78 | — | — | — | — | 43 |
| C 70 3_88.2 | 88.2 | 1.4 | — | — | 4.3 | 4.2 | 5.5 | 20 | 80 | 76 | — | — | — | — | 43 |
| C 70 3_103.8 | 103.8 | 1.0 | — | — | 3.8 | 3.8 | 5.1 | 20 | 79 | 77 | — | — | — | — | 42 |
| C 70 3_112.4 | 112.4 | 0.90 | — | — | 3.8 | 3.7 | 5.0 | 20 | 79 | 77 | — | — | — | — | 42 |
| C 70 3_126.8 | 126.8 | 0.70 | — | — | 3.5 | 3.5 | 4.8 | 20 | 79 | 77 | — | — | — | — | 42 |
| C 70 3_137.4 | 137.4 | 0.70 | — | — | 3.5 | 3.5 | 4.7 | 20 | 79 | 77 | — | — | — | — | 42 |
| C 70 3_150.3 | 150.3 | 0.50 | — | — | 3.4 | 3.4 | 9.6 | — | — | — | — | — | — | — | 42 |
| C 70 3_162.8 | 162.8 | 0.50 | — | — | 3.4 | 3.4 | 4.6 | — | — | — | — | — | — | — | 42 |
| C 70 3_179.2 | 179.2 | 0.40 | — | — | 3.2 | 3.3 | 4.5 | — | — | — | — | — | — | — | 42 |
| C 70 3_194.1 | 194.1 | 0.40 | — | — | 3.2 | 3.2 | 4.5 | — | — | — | — | — | — | — | 42 |
| C 70 3_220.9 | 220.9 | 0.30 | — | — | 3.1 | 3.1 | 4.3 | — | — | — | — | — | — | — | 41 |
| C 70 3_239.3 | 239.3 | 0.30 | — | — | 3.1 | 3.1 | 4.3 | — | — | — | — | — | — | — | 41 |
| C 70 4_251.3 | 251.3 | 0.70 | 2.2 | 2.2 | 3.5 | 3.5 | 4.8 | 20 | — | — | — | — | — | — | 11 |
| C 70 4_272.2 | 272.2 | 0.70 | 2.2 | 2.1 | 3.5 | 3.5 | 4.8 | 20 | — | — | — | — | — | — | 11 |
| C 70 4_317.9 | 317.9 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 19 | — | — | — | — | — | — | 11 |
| C 70 4_344.3 | 344.3 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 19 | — | — | — | — | — | — | 11 |
| C 70 4_409.4 | 409.4 | 0.40 | 1.8 | 1.8 | 3.2 | 3.2 | 4.5 | 19 | — | — | — | — | — | — | 7.9 |
| C 70 4_443.5 | 443.5 | 0.40 | 1.8 | 1.8 | 3.2 | 3.2 | 4.5 | 19 | — | — | — | — | — | — | 7.9 |
| C 70 4_512.0 | 512.0 | 0.30 | 1.7 | 1.7 | 3.1 | 3.1 | 4.4 | 19 | — | — | — | — | — | — | 7.8 |
| C 70 4_554.7 | 554.7 | 0.30 | 1.7 | 1.7 | 3.1 | 3.1 | 4.4 | 19 | — | — | — | — | — | — | 7.8 |
| C 70 4_606.8 | 606.8 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | — | — | — | — | — | — | — | 7.8 |
| C 70 4_657.3 | 657.3 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | — | — | — | — | — | — | — | 7.7 |
| C 70 4_736.0 | 736.0 | 0.20 | 1.6 | 1.6 | 3.0 | 2.9 | 4.3 | — | — | — | — | — | — | — | 7.7 |
| C 70 4_797.3 | 797.3 | 0.20 | 1.6 | 1.6 | 3.0 | 2.9 | 4.3 | — | — | — | — | — | — | — | 7.7 |
| C 70 4_922.6 | 922.6 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | — | — | — | — | — | — | — | 7.7 |
| C 70 4_999.5 | 999.5 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | — | — | — | — | — | — | — | 7.6 |
| C 70 4_1069 | 1069 | 0.80 | 1.6 | 1.5 | 2.9 | 2.9 | 4.2 | — | — | — | — | — | — | — | 7.6 |
| C 70 4_1158 | 1158 | 0.80 | 1.6 | 1.5 | 2.9 | 2.9 | 4.2 | — | — | — | — | — | — | — | 7.6 |
| C 70 4_1362 | 1362 | 0.60 | 1.5 | 1.5 | 2.9 | 2.9 | 4.1 | — | — | — | — | — | — | — | 7.6 |
| C 70 4_1476 | 1476 | 0.60 | 1.5 | 1.5 | 2.9 | 2.9 | 4.1 | — | — | — | — | — | — | — | 7.6 |


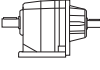


C 80

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | | | | | | |
|--------------|-------|---|---|-----|-----|------------|-----|-----|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | | | | | | |  |
| | | 63 | 71 | 80 | 90 | 100 112 | 132 | 160 | 180 | 200 | 225 | 250 | 280 | |
| C 80 2_5.6 | 5.6 | — | — | — | — | — | — | — | 197 | 211 | 489 | — | — | 164 |
| C 80 2_6.1 | 6.1 | — | — | — | — | — | — | — | 193 | 210 | 485 | — | — | 159 |
| C 80 2_7.0 | 7.0 | — | — | — | — | — | — | 160 | 161 | 174 | 452 | — | — | 127 |
| C 80 2_7.6 | 7.6 | — | — | — | — | — | — | 158 | 158 | 172 | 449 | — | — | 124 |
| C 80 2_8.9 | 8.9 | — | — | — | — | — | — | 137 | 135 | 146 | 429 | — | — | 101 |
| C 80 2_9.6 | 9.6 | — | — | — | — | — | — | 136 | 133 | 144 | 427 | — | — | 99 |
| C 80 2_11.1 | 11.1 | 38 | — | — | — | — | 56 | 116 | 113 | 124 | 408 | — | — | 79 |
| C 80 2_12.0 | 12.0 | 36 | — | — | — | — | 55 | 115 | 112 | 123 | 407 | — | — | 78 |
| C 80 2_13.8 | 13.8 | 28 | — | — | — | — | 47 | 106 | 104 | 135 | 398 | — | — | 69 |
| C 80 2_14.9 | 14.9 | 27 | — | — | — | — | 46 | 106 | 103 | 134 | 397 | — | — | 69 |
| C 80 2_16.7 | 16.7 | 21 | — | — | — | — | 40 | 100 | 97 | 127 | 391 | — | — | 63 |
| C 80 2_18.1 | 18.1 | 21 | — | — | — | — | 40 | 99 | 97 | 127 | 390 | — | — | 62 |
| C 80 2_20.5 | 20.5 | 14 | — | — | 17 | 17 | 18 | 33 | 93 | 90 | 120 | 383 | — | 55 |
| C 80 2_22.2 | 22.2 | 14 | — | — | 16 | 16 | 18 | 33 | 92 | 90 | 120 | 383 | — | 55 |
| C 80 2_24.0 | 24.0 | 13 | — | — | 16 | 16 | 17 | 32 | 91 | 89 | 119 | 382 | — | 54 |
| C 80 2_25.9 | 25.9 | 13 | — | — | 16 | 15 | 17 | 32 | 91 | 89 | 118 | 382 | — | 54 |
| C 80 2_31.3 | 31.3 | 8.7 | — | — | 12 | 11 | 13 | 28 | 87 | 85 | — | — | — | 50 |
| C 80 2_39.1 | 39.1 | 5.2 | — | — | 8.0 | 8.0 | 9.2 | 24 | 84 | 81 | — | — | — | 46 |
| C 80 3_43.5 | 43.5 | 9.6 | — | — | 12 | 12 | 14 | 29 | 88 | 86 | — | — | — | 51 |
| C 80 3_47.4 | 47.4 | 9.1 | — | — | 12 | 12 | 13 | 28 | 87 | 85 | — | — | — | 50 |
| C 80 3_57.3 | 57.3 | 5.7 | — | — | 8.5 | 8.5 | 9.7 | 25 | 84 | 82 | — | — | — | 47 |
| C 80 3_62.5 | 62.5 | 5.4 | — | — | 8.2 | 8.2 | 9.5 | 24 | 84 | 82 | — | — | — | 47 |
| C 80 3_70.5 | 70.5 | 4.3 | — | — | 7.1 | 7.0 | 8.3 | 23 | 83 | 80 | — | — | — | 45 |
| C 80 3_76.9 | 76.9 | 4.1 | — | — | 7.0 | 6.9 | 8.2 | 23 | 82 | 80 | — | — | — | 45 |
| C 80 3_89.3 | 89.3 | 3.0 | — | — | 5.9 | 5.8 | 7.1 | 22 | 81 | 79 | — | — | — | 44 |
| C 80 3_97.4 | 97.4 | 2.9 | — | — | 5.8 | 5.7 | 7.0 | 22 | 81 | 79 | — | — | — | 44 |
| C 80 3_109.5 | 109.5 | 2.0 | — | — | 4.8 | 4.8 | 6.1 | 21 | 80 | 78 | — | — | — | 43 |
| C 80 3_119.5 | 119.5 | 1.9 | — | — | 4.8 | 4.7 | 6.0 | 21 | 80 | 79 | — | — | — | 43 |
| C 80 3_136.7 | 136.7 | 1.4 | — | — | 4.3 | 4.2 | 5.5 | 20 | 80 | 78 | — | — | — | 43 |
| C 80 3_149.1 | 149.1 | 1.4 | — | — | 4.2 | 4.2 | 5.5 | 20 | 80 | 77 | — | — | — | 43 |
| C 80 3_169.0 | 169.0 | 1.0 | — | — | 3.9 | 3.8 | 5.1 | 20 | 80 | 77 | — | — | — | 42 |
| C 80 3_184.4 | 184.4 | 1.0 | — | — | 3.9 | 3.8 | 5.1 | 20 | 80 | 77 | — | — | — | 42 |
| C 80 3_197.9 | 197.9 | 0.80 | — | — | 3.7 | 3.6 | 4.9 | — | — | — | — | — | — | 42 |
| C 80 3_215.8 | 215.8 | 0.80 | — | — | 3.6 | 3.6 | 4.9 | — | — | — | — | — | — | 42 |
| C 80 4_261.9 | 261.9 | 1.7 | — | — | 4.6 | 4.5 | 5.8 | 21 | — | — | — | — | — | 12 |
| C 80 4_285.7 | 285.7 | 1.7 | — | — | 4.6 | 4.5 | 5.8 | 21 | — | — | — | — | — | 12 |
| C 80 4_334.3 | 334.3 | 1.2 | 2.7 | 2.7 | 4.0 | 4.0 | 5.3 | 20 | — | — | — | — | — | 11 |
| C 80 4_364.7 | 364.7 | 1.2 | 2.7 | 2.6 | 4.0 | 4.0 | 5.3 | 20 | — | — | — | — | — | 11 |
| C 80 4_417.5 | 417.5 | 0.90 | 2.4 | 2.3 | 3.7 | 3.7 | 5.0 | 20 | — | — | — | — | — | 11 |
| C 80 4_455.4 | 455.4 | 0.90 | 2.3 | 2.3 | 3.7 | 3.7 | 5.5 | 20 | — | — | — | — | — | 11 |
| C 80 4_529.3 | 529.3 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 19 | — | — | — | — | — | 11 |
| C 80 4_577.4 | 577.4 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 19 | — | — | — | — | — | 11 |
| C 80 4_664.3 | 664.3 | 0.40 | 2.0 | 1.9 | 3.3 | 3.2 | 4.5 | 19 | — | — | — | — | — | 11 |
| C 80 4_724.7 | 724.7 | 0.40 | 2.0 | 1.9 | 3.3 | 3.2 | 4.5 | 19 | — | — | — | — | — | 11 |
| C 80 4_783.4 | 783.4 | 0.30 | 2.0 | 1.8 | 3.2 | 3.1 | 4.4 | — | — | — | — | — | — | 9.4 |
| C 80 4_854.6 | 854.6 | 0.30 | 2.0 | 1.8 | 3.2 | 3.1 | 4.4 | — | — | — | — | — | — | 9.4 |
| C 80 4_945.7 | 945.7 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | — | — | — | — | — | — | 9.3 |
| C 80 4_1032 | 1032 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | — | — | — | — | — | — | 9.3 |
| C 80 4_1168 | 1168 | 0.20 | 1.6 | 1.6 | 3.0 | 3.0 | 4.2 | — | — | — | — | — | — | 9.2 |
| C 80 4_1274 | 1274 | 0.20 | 1.6 | 1.6 | 3.0 | 3.0 | 4.2 | — | — | — | — | — | — | 9.2 |
| C 80 4_1358 | 1358 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | — | — | — | — | — | — | 9.2 |
| C 80 4_1481 | 1481 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | — | — | — | — | — | — | 9.2 |





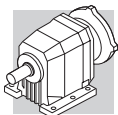
C 90

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | | | |
|--------------|-------|---|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|-----|-----|---|
| | |  | 63 | 71 | 80 | 90 | 100 112 | 132 | 160 | 180 | 200 | 225 | 250 | 280 |  |
| C 90 2_5.2 | 5.2 | — | — | — | — | — | — | — | — | — | 332 | 610 | 637 | — | 619 |
| C 90 2_5.6 | 5.6 | — | — | — | — | — | — | — | — | — | 321 | 599 | 626 | — | 609 |
| C 90 2_6.8 | 6.8 | — | — | — | — | — | — | — | — | — | 252 | 530 | 557 | — | 540 |
| C 90 2_7.3 | 7.3 | — | — | — | — | — | — | — | — | — | 246 | 524 | 551 | — | 533 |
| C 90 2_8.3 | 8.3 | — | — | — | — | — | — | — | — | — | 212 | 490 | 517 | — | 499 |
| C 90 2_9.0 | 9.0 | — | — | — | — | — | — | — | — | — | 208 | 485 | 513 | — | 495 |
| C 90 2_10.4 | 10.4 | — | — | — | — | — | — | 167 | 164 | 175 | 458 | 484 | — | — | 461 |
| C 90 2_11.2 | 11.2 | — | — | — | — | — | — | 164 | 162 | 173 | 455 | 482 | — | — | 458 |
| C 90 2_12.8 | 12.8 | 65 | — | — | — | — | 84 | 143 | 141 | 152 | 436 | 462 | — | — | 439 |
| C 90 2_13.9 | 13.9 | 63 | — | — | — | — | 82 | 141 | 139 | 200 | 434 | 460 | — | — | 437 |
| C 90 2_16.0 | 16.0 | 47 | — | — | — | — | 66 | 125 | 123 | 154 | 417 | 443 | — | — | 420 |
| C 90 2_17.3 | 17.3 | 46 | — | — | — | — | 65 | 124 | 122 | 153 | 416 | 442 | — | — | 419 |
| C 90 2_18.7 | 18.7 | 42 | — | — | — | — | 61 | 121 | 119 | 148 | 412 | 433 | — | — | 415 |
| C 90 2_20.2 | 20.2 | 41 | — | — | — | — | 61 | 199 | 118 | 147 | 411 | 438 | — | — | 414 |
| C 90 2_22.9 | 22.9 | 28 | — | — | 30 | 30 | 31 | 47 | 106 | 104 | 133 | 397 | 423 | — | 400 |
| C 90 2_24.8 | 24.8 | 27 | — | — | 29 | 29 | 31 | 46 | 105 | 103 | 133 | 396 | 422 | — | 399 |
| C 90 2_27.2 | 27.2 | 22 | — | — | 25 | 25 | 26 | 41 | 101 | 99 | 128 | 391 | 418 | — | 394 |
| C 90 2_29.4 | 29.4 | 22 | — | — | 25 | 24 | 26 | 41 | 100 | 98 | 127 | 391 | 417 | — | 394 |
| C 90 2_35.1 | 35.1 | 14 | — | — | 17 | 17 | 18 | 33 | 93 | 90 | — | — | — | — | 386 |
| C 90 3_39.4 | 39.4 | 27 | — | — | — | — | — | 46 | 105 | 103 | 112 | 398 | 424 | — | 412 |
| C 90 3_43.0 | 43.0 | 26 | — | — | — | — | — | 45 | 104 | 102 | 111 | 396 | 422 | — | 410 |
| C 90 3_50.3 | 50.3 | 19 | — | — | — | — | — | 38 | 98 | 95 | 126 | 389 | 415 | — | 403 |
| C 90 3_54.9 | 54.9 | 19 | — | — | — | — | — | 37 | 97 | 95 | 125 | 389 | 415 | — | 401 |
| C 90 3_59.2 | 59.2 | 16 | — | — | — | — | — | 35 | 94 | 92 | 122 | 385 | 411 | — | 398 |
| C 90 3_64.6 | 64.6 | 15 | — | — | — | — | — | 34 | 94 | 91 | 121 | 384 | 410 | — | 398 |
| C 90 3_74.4 | 74.4 | 10 | — | — | 13 | 13 | 14 | 29 | 88 | 86 | 116 | 379 | 405 | — | 393 |
| C 90 3_81.2 | 81.2 | 9.8 | — | — | 12 | 12 | 13 | 29 | 88 | 86 | 115 | 379 | 405 | — | 392 |
| C 90 3_88.2 | 88.2 | 7.1 | — | — | 9.7 | 9.6 | 11 | 26 | 85 | 83 | 113 | 376 | 402 | — | 389 |
| C 90 3_96.2 | 96.2 | 6.9 | — | — | 9.4 | 9.4 | 11 | 26 | 85 | 83 | 112 | 376 | 402 | — | 389 |
| C 90 3_107.0 | 107.0 | 5.7 | — | — | 8.4 | 8.4 | 9.6 | 25 | 84 | 82 | — | — | — | — | 388 |
| C 90 3_116.7 | 116.7 | 5.5 | — | — | 8.3 | 8.2 | 9.5 | 24 | 84 | 82 | — | — | — | — | 388 |
| C 90 3_134.1 | 134.1 | 3.5 | — | — | 6.4 | 6.3 | 7.6 | 22 | 82 | 80 | — | — | — | — | 386 |
| C 90 3_146.3 | 146.3 | 3.4 | — | — | 6.3 | 6.2 | 7.5 | 22 | 82 | 80 | — | — | — | — | 386 |
| C 90 3_157.8 | 157.8 | 2.5 | — | — | 5.4 | 5.3 | 6.6 | 21 | 81 | 79 | — | — | — | — | 385 |
| C 90 3_172.1 | 172.1 | 2.4 | — | — | 5.3 | 5.2 | 6.5 | 21 | 81 | 79 | — | — | — | — | 385 |
| C 90 4_212.4 | 212.4 | 4.2 | — | — | 7.0 | 7.0 | 8.3 | 23 | 83 | 80 | — | — | — | — | 14 |
| C 90 4_231.7 | 231.7 | 4.1 | — | — | 7.0 | 6.9 | 8.2 | 23 | 82 | 80 | — | — | — | — | 14 |
| C 90 4_268.5 | 268.5 | 2.8 | — | — | 5.7 | 5.6 | 6.9 | 22 | 81 | 79 | — | — | — | — | 13 |
| C 90 4_292.9 | 292.9 | 2.8 | — | — | 5.7 | 2.6 | 6.9 | 22 | 81 | 79 | — | — | — | — | 13 |
| C 90 4_339.0 | 339.0 | 2.0 | 3.4 | 3.4 | 4.8 | 4.8 | 6.0 | 21 | 80 | 78 | — | — | — | — | 12 |
| C 90 4_369.8 | 369.8 | 2.0 | 3.4 | 3.4 | 4.8 | 4.8 | 6.0 | 21 | 80 | 78 | — | — | — | — | 12 |
| C 90 4_419.0 | 419.0 | 1.4 | 2.9 | 2.9 | 4.3 | 4.2 | 5.5 | 20 | 80 | 78 | — | — | — | — | 12 |
| C 90 4_457.1 | 457.1 | 1.4 | 2.9 | 2.9 | 4.3 | 4.2 | 5.5 | 20 | 80 | 78 | — | — | — | — | 12 |
| C 90 4_534.2 | 534.2 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 20 | 79 | 77 | — | — | — | — | 11 |
| C 90 4_582.8 | 582.8 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 20 | 79 | 77 | — | — | — | — | 11 |
| C 90 4_652.8 | 652.8 | 0.70 | 2.1 | 2.1 | 3.5 | 3.5 | 4.7 | 20 | 79 | 77 | — | — | — | — | 11 |
| C 90 4_712.2 | 712.2 | 0.70 | 2.1 | 2.1 | 3.5 | 3.5 | 4.7 | 20 | 79 | 77 | — | — | — | — | 11 |
| C 90 4_773.6 | 773.6 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | — | — | — | — | — | — | — | 9.7 |
| C 90 4_844.0 | 844.0 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | — | — | — | — | — | — | — | 9.6 |
| C 90 4_922.3 | 922.3 | 0.40 | 1.8 | 1.8 | 3.2 | 3.2 | 4.5 | — | — | — | — | — | — | — | 9.5 |
| C 90 4_1006 | 1006 | 0.40 | 1.8 | 1.8 | 3.2 | 3.2 | 4.5 | — | — | — | — | — | — | — | 9.4 |
| C 90 4_1137 | 1137 | 0.30 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | — | — | — | — | — | — | — | 9.3 |
| C 90 4_1240 | 1240 | 0.30 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | — | — | — | — | — | — | — | 9.3 |



C 100

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | | | | | | | |
|---------------|-------|---|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|-----|-----|---|
| | |  | 63 | 71 | 80 | 90 | 100 112 | 132 | 160 | 180 | 200 | 225 | 250 | 280 |  |
| C 100 2_4.9 | 4.9 | — | — | — | — | — | — | — | — | — | 674 | 960 | 987 | 970 | 972 |
| C 100 2_5.3 | 5.3 | — | — | — | — | — | — | — | — | — | 647 | 933 | 960 | 943 | 944 |
| C 100 2_6.5 | 6.5 | — | — | — | — | — | — | — | — | — | 481 | 767 | 794 | 777 | 778 |
| C 100 2_7.1 | 7.1 | — | — | — | — | — | — | — | — | — | 465 | 751 | 778 | 761 | 763 |
| C 100 2_8.4 | 8.4 | — | — | — | — | — | — | — | — | — | 365 | 651 | 678 | 660 | 662 |
| C 100 2_9.0 | 9.0 | — | — | — | — | — | — | — | — | — | 355 | 641 | 668 | 651 | 653 |
| C 100 2_10.1 | 10.1 | — | — | — | — | — | — | — | — | — | 291 | 577 | 604 | 587 | 589 |
| C 100 2_10.9 | 10.9 | — | — | — | — | — | — | — | — | — | 285 | 570 | 597 | 580 | 582 |
| C 100 2_12.5 | 12.5 | — | — | — | — | — | — | — | 224 | 222 | 233 | 521 | 550 | 539 | 529 |
| C 100 2_13.5 | 13.5 | — | — | — | — | — | — | — | 220 | 218 | 228 | 517 | 545 | 532 | 524 |
| C 100 2_15.2 | 15.2 | 122 | — | — | — | — | — | 82 | 141 | 200 | 199 | 472 | 499 | 528 | 514 |
| C 100 2_16.5 | 16.5 | 119 | — | — | — | — | — | 138 | 197 | 195 | 206 | 496 | 525 | 511 | 504 |
| C 100 2_18.7 | 18.7 | 97 | — | — | — | — | — | 116 | 175 | 173 | 203 | 474 | 501 | 488 | 480 |
| C 100 2_20.2 | 20.2 | 95 | — | — | — | — | — | 114 | 173 | 171 | 201 | 471 | 499 | 486 | 478 |
| C 100 2_22.2 | 22.2 | 73 | — | — | — | — | — | 92 | 102 | 150 | 179 | 448 | 477 | 463 | 456 |
| C 100 2_24.1 | 24.1 | 72 | — | — | — | — | — | 91 | 150 | 148 | 178 | 447 | 476 | 462 | 455 |
| C 100 2_29.6 | 29.6 | 50 | — | — | — | — | 54 | 69 | 129 | 127 | 156 | 425 | 454 | 440 | 433 |
| C 100 3_34.3 | 34.3 | — | — | — | — | — | — | — | 148 | 146 | 155 | 439 | 465 | 471 | 461 |
| C 100 3_36.9 | 36.9 | — | — | — | — | — | — | — | 145 | 143 | 152 | 436 | 462 | 468 | 458 |
| C 100 3_42.9 | 42.9 | 44 | — | — | — | — | — | 63 | 123 | 120 | 130 | 415 | 441 | 451 | 437 |
| C 100 3_46.2 | 46.2 | 43 | — | — | — | — | — | 61 | 121 | 118 | 128 | 413 | 439 | 452 | 435 |
| C 100 3_53.3 | 53.3 | 33 | — | — | — | — | — | 51 | 111 | 109 | 139 | 403 | 429 | 432 | 424 |
| C 100 3_57.4 | 57.4 | 31 | — | — | — | — | — | 50 | 110 | 107 | 138 | 401 | 427 | 431 | 423 |
| C 100 3_64.5 | 64.5 | 24 | — | — | — | — | — | 43 | 103 | 101 | 130 | 394 | 420 | 422 | 415 |
| C 100 3_69.4 | 69.4 | 24 | — | — | — | — | — | 43 | 102 | 100 | 129 | 393 | 419 | 421 | 414 |
| C 100 3_79.4 | 79.4 | 16 | — | — | — | — | 20 | 35 | 95 | 92 | 122 | 385 | 411 | 413 | 407 |
| C 100 3_85.6 | 85.6 | 16 | — | — | — | — | 19 | 35 | 94 | 92 | 121 | 385 | 411 | 413 | 406 |
| C 100 3_92.7 | 92.7 | 15 | — | — | — | — | 18 | 34 | 93 | 91 | 120 | 384 | 410 | 412 | 405 |
| C 100 3_99.8 | 99.8 | 14 | — | — | — | — | 18 | 33 | 93 | 90 | 119 | 383 | 409 | 411 | 404 |
| C 100 3_111.9 | 111.9 | 9.9 | — | — | — | — | 14 | 29 | 88 | 86 | — | — | — | — | 392 |
| C 100 3_120.5 | 120.5 | 9.6 | — | — | — | — | 14 | 29 | 88 | 86 | — | — | — | — | 392 |
| C 100 3_139.7 | 139.7 | 6.0 | — | — | — | — | 10 | 25 | 84 | 82 | — | — | — | — | 388 |
| C 100 3_150.4 | 150.4 | 5.8 | — | — | — | — | 9.8 | 25 | 84 | 82 | — | — | — | — | 388 |
| C 100 4_162.1 | 162.1 | 13 | — | — | 16 | 16 | 17 | 32 | 100 | 89 | — | — | — | — | 23 |
| C 100 4_185.4 | 185.4 | 9.6 | — | — | 13 | 12 | 14 | 29 | 88 | 86 | — | — | — | — | 20 |
| C 100 4_199.6 | 199.6 | 8.5 | — | — | 12 | 12 | 14 | 28 | 88 | 86 | — | — | — | — | 20 |
| C 100 4_244.2 | 244.2 | 5.7 | — | — | 8.5 | 8.5 | 9.8 | 25 | 84 | 82 | — | — | — | — | 16 |
| C 100 4_263.0 | 263.0 | 5.6 | — | — | 8.5 | 8.4 | 9.7 | 25 | 84 | 82 | — | — | — | — | 16 |
| C 100 4_300.5 | 300.5 | 4.2 | — | — | 7.1 | 7.1 | 8.4 | 23 | 83 | 80 | — | — | — | — | 15 |
| C 100 4_323.6 | 323.6 | 4.2 | — | — | 7.1 | 7.0 | 8.3 | 23 | 83 | 80 | — | — | — | — | 14 |
| C 100 4_380.5 | 380.5 | 3.1 | 4.5 | 4.5 | 5.9 | 5.5 | 7.1 | 22 | 81 | 79 | — | — | — | — | 13 |
| C 100 4_409.8 | 409.8 | 3.0 | 4.5 | 4.5 | 5.9 | 5.5 | 7.1 | 22 | 81 | 79 | — | — | — | — | 13 |
| C 100 4_466.7 | 466.7 | 2.0 | 3.5 | 3.5 | 4.9 | 4.8 | 6.1 | 20 | 80 | 78 | — | — | — | — | 12 |
| C 100 4_502.6 | 502.6 | 2.0 | 3.5 | 3.4 | 4.8 | 4.8 | 6.1 | 20 | 80 | 78 | — | — | — | — | 12 |
| C 100 4_582.6 | 582.6 | 1.4 | 2.9 | 2.9 | 4.3 | 4.2 | 5.5 | 20 | 80 | 77 | — | — | — | — | 12 |
| C 100 4_627.4 | 627.4 | 1.4 | 2.9 | 2.9 | 4.3 | 4.2 | 5.5 | 20 | 80 | 77 | — | — | — | — | 12 |
| C 100 4_720.3 | 720.3 | 1.0 | 2.5 | 2.5 | 3.9 | 3.4 | 5.1 | 20 | 79 | 77 | — | — | — | — | 11 |
| C 100 4_775.7 | 775.7 | 1.0 | 2.5 | 2.5 | 3.9 | 3.4 | 5.1 | 20 | 79 | 77 | — | — | — | — | 11 |
| C 100 4_843.3 | 843.3 | 0.80 | 2.3 | 2.3 | 3.7 | 3.6 | 4.9 | — | — | — | — | — | — | — | 9.9 |
| C 100 4_908.2 | 908.2 | 0.80 | 2.3 | 2.3 | 3.7 | 3.6 | 4.9 | — | — | — | — | — | — | — | 9.9 |
| C 100 4_1004 | 1004 | 0.60 | 2.1 | 2.0 | 3.4 | 3.4 | 4.7 | — | — | — | — | — | — | — | 9.7 |
| C 100 4_1081 | 1081 | 0.60 | 2.1 | 2.0 | 3.4 | 3.4 | 4.7 | — | — | — | — | — | — | — | 9.7 |



29 RAPPORTS EXACTS

| i_N | C12 | C22 | C32 | C36 | C41 | C51 | C61 | C70 | C80 | C90 | C100 |
|-------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 2.5 | | | | | | 2.62895 | | | | | |
| 2.8 | 2.76731 | 2.72212 | 2.87879 | 2.68687 | 2.65909 | | 2.82011 | | | | |
| 3.2 | 3.20743 | 3.32609 | | 3.18182 | | 3.30758 | | | | | |
| 3.5 | 3.65132 | 3.70709 | 3.40909 | 3.48617 | 3.61111 | | 3.69925 | | | | |
| 4.0 | | | 3.73518 | 4.20000 | | | | | | | |
| 4.5 | 4.31203 | 4.25831 | 4.50000 | 4.62201 | 4.66304 | 4.45370 | 4.55556 | 4.57143 | | | |
| 5.0 | 4.86842 | 4.76902 | 4.95215 | 5.27807 | | | | | | 5.17231 | 4.92308 |
| 5.6 | 5.59868 | 5.59006 | 5.65508 | 5.84659 | 5.95263 | 5.63043 | | 5.85034 | 5.64103 | 5.60333 | 5.33333 |
| 6.3 | 6.23158 | 6.08696 | 6.26420 | | 6.36364 | | 6.00176 6.74074 | 6.25455 | 6.11111 | 6.75824 | 6.52308 |
| 7.1 | | 7.08300 | 7.16498 | 6.78114 | 7.06612 | 6.98684 | 7.48485 | 7.46032 | 7.04000 | 7.32143 | 7.06667 |
| 8.0 | 7.62201 | | 8.48485 | 8.03030 | | 7.75120 | | 8.00433 | 7.62667 | 8.32615 | 8.35165 |
| 9.0 | 8.83422 | 8.65455 | 9.29644 | 8.79842 | 8.64198 | 8.79040 | 8.84211 | 9.52381 | 8.86447 | 9.02000 | 9.04762 |
| 10.0 | 10.05682 | 9.64593 | | 10.60000 | 9.59596 | 9.75207 | 9.81818 | 10.20707 | 9.60317 | 10.36264 | 10.09231 |
| 11.2 | | 11.08021 | 11.20000 | 11.66507 | 11.15942 | 11.83642 | 10.88889 | 11.20879 | 11.09402 | 11.22619 | 10.93333 |
| 12.5 | 11.87662 | 12.40909 | 12.32536 | 13.32086 | 12.39130 | 13.13131 | 12.09091 | 13.03030 | 12.01852 | 12.79060 | 12.45421 |
| 14.0 | 13.40909 | 14.54545 | 14.07487 | 14.75568 | 14.24561 | 14.96377 | 14.34568 | 14.09524 | 13.76410 14.91111 | 13.85648 | 13.49206 |
| 16.0 | 15.42045 | 15.83838 | 15.59091 | | 15.81818 | 16.60079 | 15.92929 | 15.33566 16.70330 | 16.66272 | 15.97949 | 15.21368 16.48148 |
| 18.0 | 17.16364 18.38961 | 18.13636 | 18.18182 | 17.20779 | 17.79167 | 18.89035 | 17.65217 | | 18.05128 | 17.31111 18.68047 | 18.66667 |
| 20.0 | 20.62937 | 20.02424 | 20.08081 | 19.00505 | 19.75568 | 20.95694 21.81606 | 19.60079 | 19.28485 | 20.53333 | 20.23718 | 20.22222 |
| 22.4 | 23.24242 | 21.45455 | 22.90909 | 22.13187 | 22.55556 | 23.35417 23.89242 | 22.35088 | 22.85315 | 22.24444 | 22.91795 | 22.24852 |
| 25.0 | 25.35537 | 24.27972 | 25.11515 | 26.20879 | 25.04545 | 25.90909 | 24.81818 26.77895 | | 23.95266 25.94872 | 24.82778 | 24.10256 |
| 28.0 | 29.50000 | 27.15152 29.61983 | 26.90909 | 28.71572 | 28.31111 28.49003 | 27.44759 29.77315 | 27.41667 29.35385 | 27.71901 | | 27.17160 29.43590 | 29.55556 |
| 31.5 | 32.77778 | 33.09091 | 29.76224 33.09091 | | 31.22945 31.43636 | 30.05994 33.03030 | 30.44318 32.97778 | | 31.33333 | | |
| 35.5 | 37.00909 | 36.76768 | 36.09917 | 34.59560 | 33.38462 36.78930 | 36.38333 36.95862 | 34.22222 36.14872 | 34.74747 | | 35.09848 | 34.29705 36.93529 |
| 40.0 | 42.31313 | | 40.72727 | 38.07172 | 37.06993 40.32673 | 40.36364 40.47619 | 38.00000 | 41.26263 | 39.11111 | 39.40239 | 42.92328 |
| 45.0 | | 43.27273 | 45.25253 | 43.47576 | 44.75207 46.96356 | 43.11538 46.72360 | 43.44691 | 44.70118 | 43.49074 | 42.98443 | 46.22507 |
| 50.0 | 47.60227 | 48.64646 | 52.43636 | 48.15865 | 51.47929 | 47.83217 51.40152 | 47.62450 | 52.16479 | 47.44444 | 50.30093 | 53.25397 |
| 56.0 | 55.16883 | 54.72727 | 59.39394 | 56.16170 | 58.65385 | 57.02479 58.98416 | 53.46087 58.60134 | 56.51186 | 57.29733 | 54.87374 59.20032 | 57.35043 |
| 63.0 | 66.15152 | 60.00000 63.27273 | 66.81818 | 62.02747 | 64.29364 | 64.59803 | | 65.85315 | 62.50617 | 64.58217 | 64.46886 |
| 71.0 | | 65.33333 74.81250 | 74.74747 | 70.76374 | 74.35897 | 72.92219 | 67.69123 74.20000 | 71.34091 | 70.50362 | 74.44537 | 69.42801 |
| 80.0 | | 82.60000 | 82.55443 | 77.57802 83.11931 | 81.50888 | 79.86264 | 83.03333 | 81.41434 | 76.91304 | 81.21313 | 79.44444 |
| 90.0 | | 88.50000 | 94.18182 | 91.93238 | 93.33333 | 92.96514 | 91.01731 | 88.19886 | 89.27047 | 88.22009 | 85.55556 92.67399 |
| 100.0 | | 100.15385 | 103.25118 | 102.21429 | 102.30769 | 101.81319 | 103.64444 | 103.79138 | 97.38596 | 96.24009 | 99.80276 |

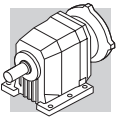
2x 

3x 



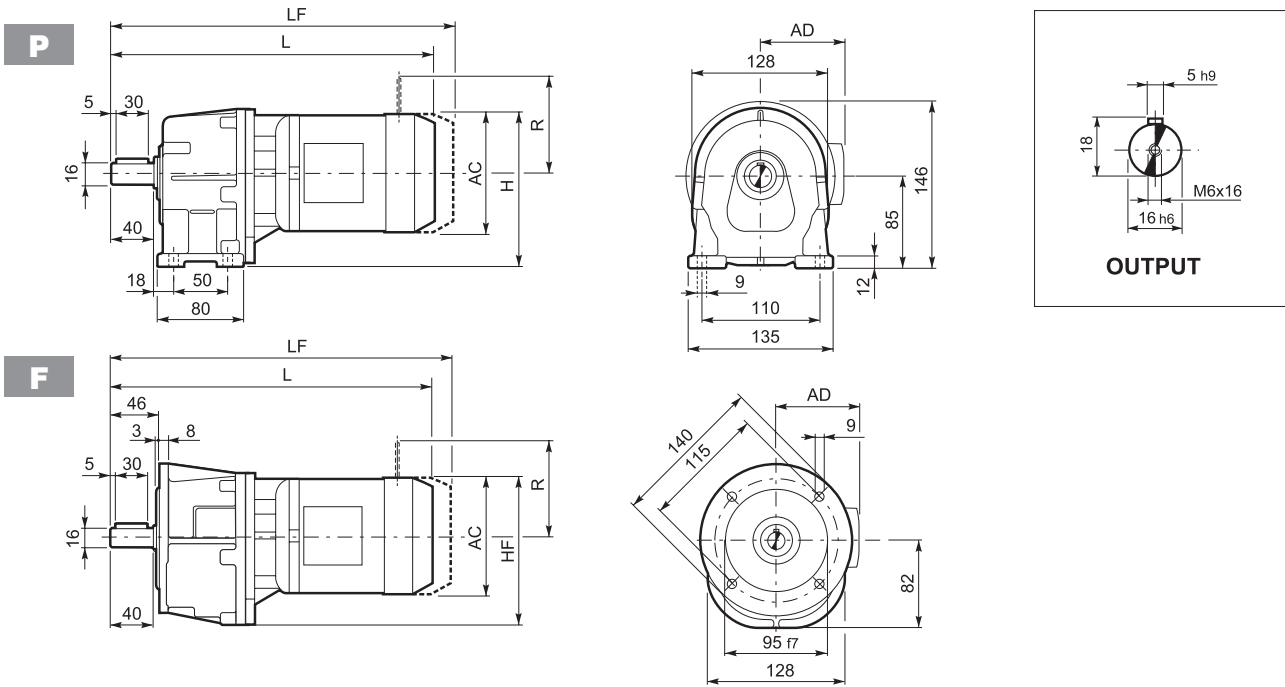
| i_N | C12 | C22 | C32 | C36 | C41 | C51 | C61 | C70 | C80 | C90 | C100 |
|--------|-----|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|------------------------|------------------------|
| 112.2 | | 112.00000 | 110.62626 | 111.50649 | 110.05917 | 113.60510 | 113.61026 | 112.44066 | 109.50347 | 107.00379 116.73140 | 111.90476 |
| 125.5 | | 122.18182 | 122.35587 | 125.80220 | 120.64178 | 124.41758 | 128.14222 | 126.83497 | 119.45833 | | 120.51282 |
| 140.0 | | 136.50000 | 136.04040 148.40771 | 139.78022 | 132.86713 145.64282 | 134.62559 147.43872 | 140.46359 | 137.40455 | 136.68519 149.11111 | 134.13580 146.32997 | 139.68254 |
| 160.0 | | 151.66667 | 167.43434 | 161.97033 | 164.10256 | 160.49861 | 150.03077 164.45680 | 150.30339 162.82867 | 168.99259 | 157.76199 | 150.42735 162.10526 |
| 180.0 | | 178.50000 | 186.03816 | 183.46154 | 179.88166 | 175.77423 | 178.59394 | 179.18945 | 184.35556 | 172.10399 | 185.37037 |
| 200.0 | | 200.66667 | | 206.39423 | 190.76923 209.11243 | 197.87075 | 195.76643 | 194.12190 | 197.85897 | 212.38169 | 199.62963 |
| 225.0 | | 225.75000 | 215.57172 | 230.88697 | | 216.70330 | 217.40754 | 220.91375 | 215.84615 | 231.68911 | |
| 250.0 | | 261.00000 | 244.17508 | 255.00183 | 239.94755 | 240.85197 263.77530 | 238.31211 | 239.32323 251.28438 | 261.85613 | 268.49591 | 244.21811 263.00412 |
| 280.0 | | | 274.69697 | 290.91758 | 263.01943 | | 275.27766 | 272.22475 | 285.66123 | 292.90463 | 300.50725 |
| 315.0 | | | | 318.93187 | 304.19580 333.44540 | 297.76563 326.10577 | 301.74667 | 317.86109 | 334.27376 | 338.95085 | 323.62319 |
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| 400.0 | | | | 377.94421 420.21429 | 381.81818 418.53147 | 379.60764 415.73718 | 421.48741 | 409.39931 | 417.48199 | 419.04541 | 409.76608 |
| 450.0 | | | | 458.41558 | 450.24207 | 463.88750 | 462.01504 | 443.51592 | 455.43490 | 457.14044 | 466.73611 |
| 500.0 | | | | 517.18681 | 493.53457 | 508.03846 | 521.11170 | 512.03745 | 529.26678 | | 502.63889 |
| 560.0 | | | | 574.65201 | 543.54736 | 549.72115 | 571.21860 | 554.70724 | 577.38194 | 534.22163 582.78723 | 582.59259 |
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| 710.0 | | | | 754.23077 | 671.32867 735.87951 | 717.74476 | 726.28202 | 735.97521 | 724.71389 | 712.17669 | 720.29630 |
| 800.0 | | | | 848.50962 | 780.41958 | 807.97222 | 796.11683 | 797.30647 | 783.37099 | 773.62229 843.95159 | 775.70370 843.33333 |
| 900.0 | | | | | 855.45992 | 884.87179 | | 922.59000 | 854.58654 945.71181 | 922.30089 | 908.20513 |
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| 1250.0 | | | | | | | | | 1274.22222 | 1240.42787 | |
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30 DIMENSIONS

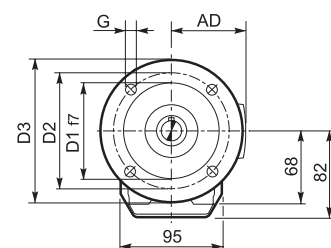
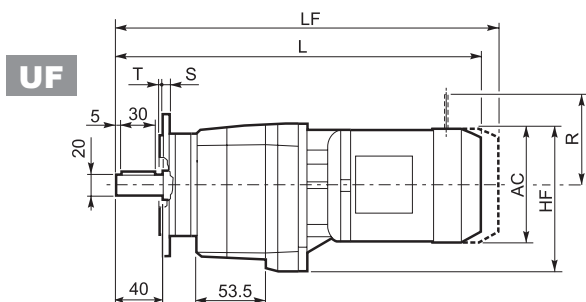
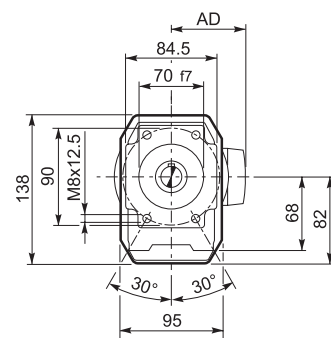
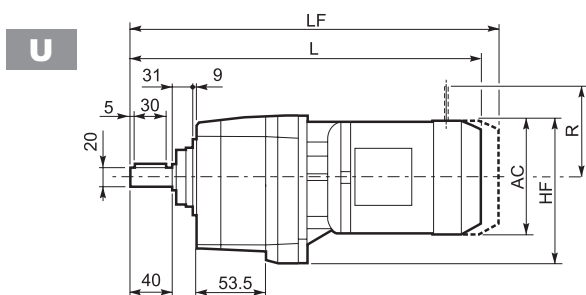
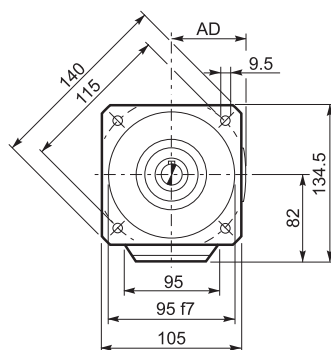
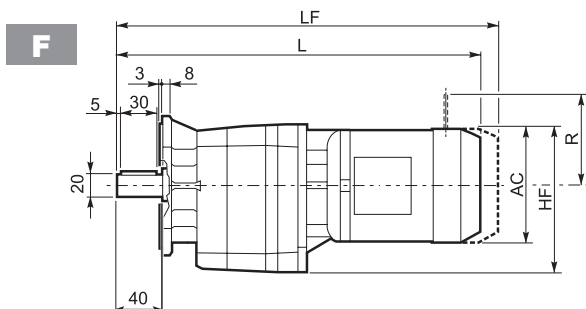
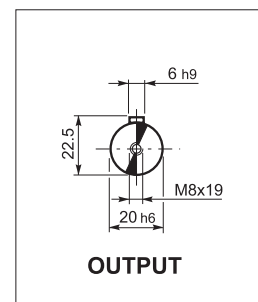
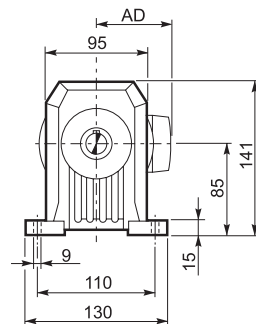
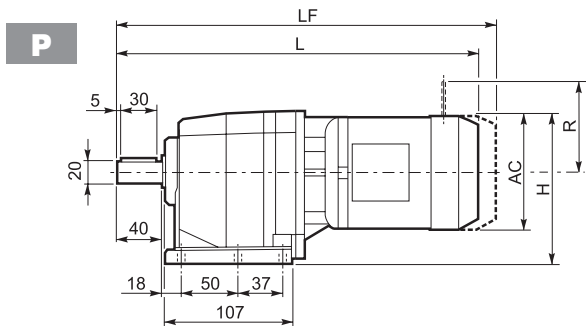
C 05...M



| | | | AC | H | HF | L | AD | Kg | M...FD M...FA | | M...FD | | M...FA | |
|--------|-----|-----|-----|-------|-------|-------|-----|----|------------------|----|--------|-----|--------|-----|
| | | | | | | | | | LF | Kg | R | AD | R | AD |
| C 05 2 | S0 | M0 | 110 | 140 | 137 | 287 | 91 | 7 | — | — | — | — | — | — |
| C 05 2 | S05 | M05 | 121 | 145.5 | 142.5 | 332 | 95 | 8 | 398 | 10 | 96 | 122 | 116 | 95 |
| C 05 2 | S1 | M1 | 138 | 154 | 151 | 360.5 | 108 | 11 | 423 | 13 | 103 | 135 | 124 | 108 |

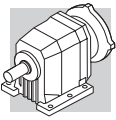


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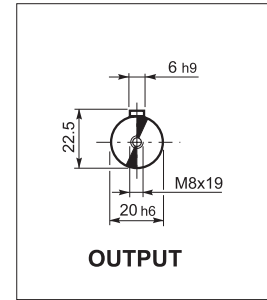
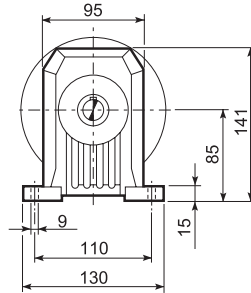
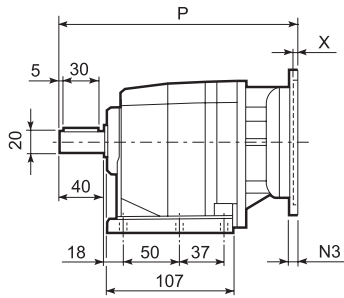
| C 12 2 U | | | | | | |
|----------|-----|-----|-----|---|---|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 80 | 100 | 120 | 7 | 3 | 8 |
| FB | 95 | 115 | 140 | 9 | 3 | 10 |
| FC | 110 | 130 | 160 | 9 | 3 | 10 |

| | | | AC | H | HF | L | AD | Kg | M...FD M...FA | | M...FD | | M...FA | |
|--------|-----|-----|-----|-------|-------|-------|-----|----|------------------|----|--------|-----|--------|-----|
| | | | | | | | | | LF | Kg | R | AD | R | AD |
| C 12 2 | S05 | M05 | 121 | 145.5 | 142.5 | 370.5 | 95 | 9 | 436.5 | 10 | 96 | 122 | 116 | 95 |
| C 12 2 | S1 | M1 | 138 | 154 | 151 | 404.5 | 108 | 11 | 460.5 | 13 | 103 | 135 | 124 | 108 |
| C 12 2 | S2 | M2S | 156 | 163 | 160 | 428.5 | 119 | 15 | 498.5 | 18 | 129 | 146 | 134 | 119 |
| C 12 2 | S3 | M3S | 195 | 182.5 | 179.5 | 471.5 | 142 | 20 | 567.5 | 25 | 160 | 158 | 160 | 142 |
| C 12 2 | S3 | M3L | 195 | 182.5 | 179.5 | 503.5 | 142 | 22 | 594.5 | 27 | 160 | 158 | 160 | 142 |

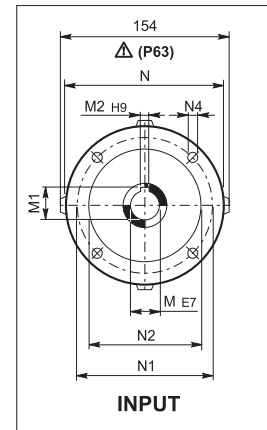
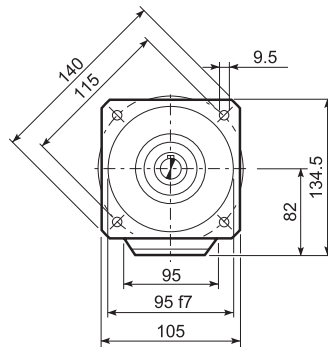
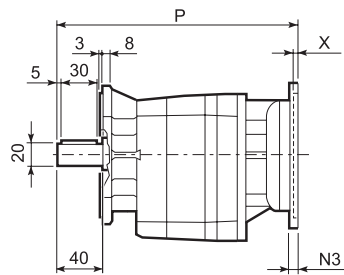


C 12...P (IEC)

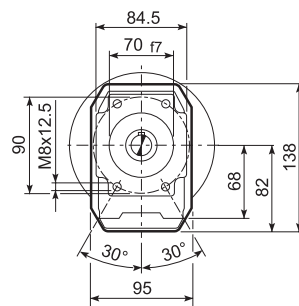
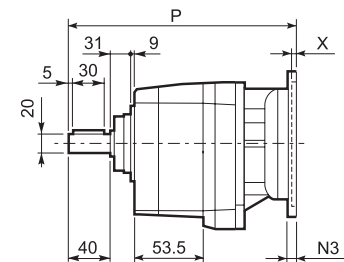
P



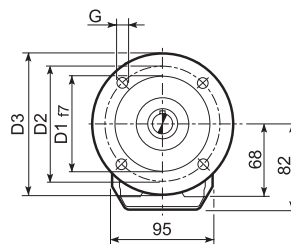
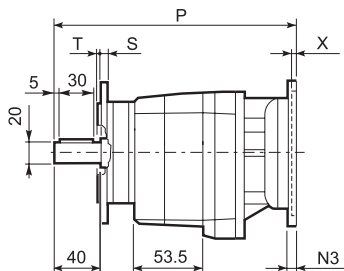
F



U



UF

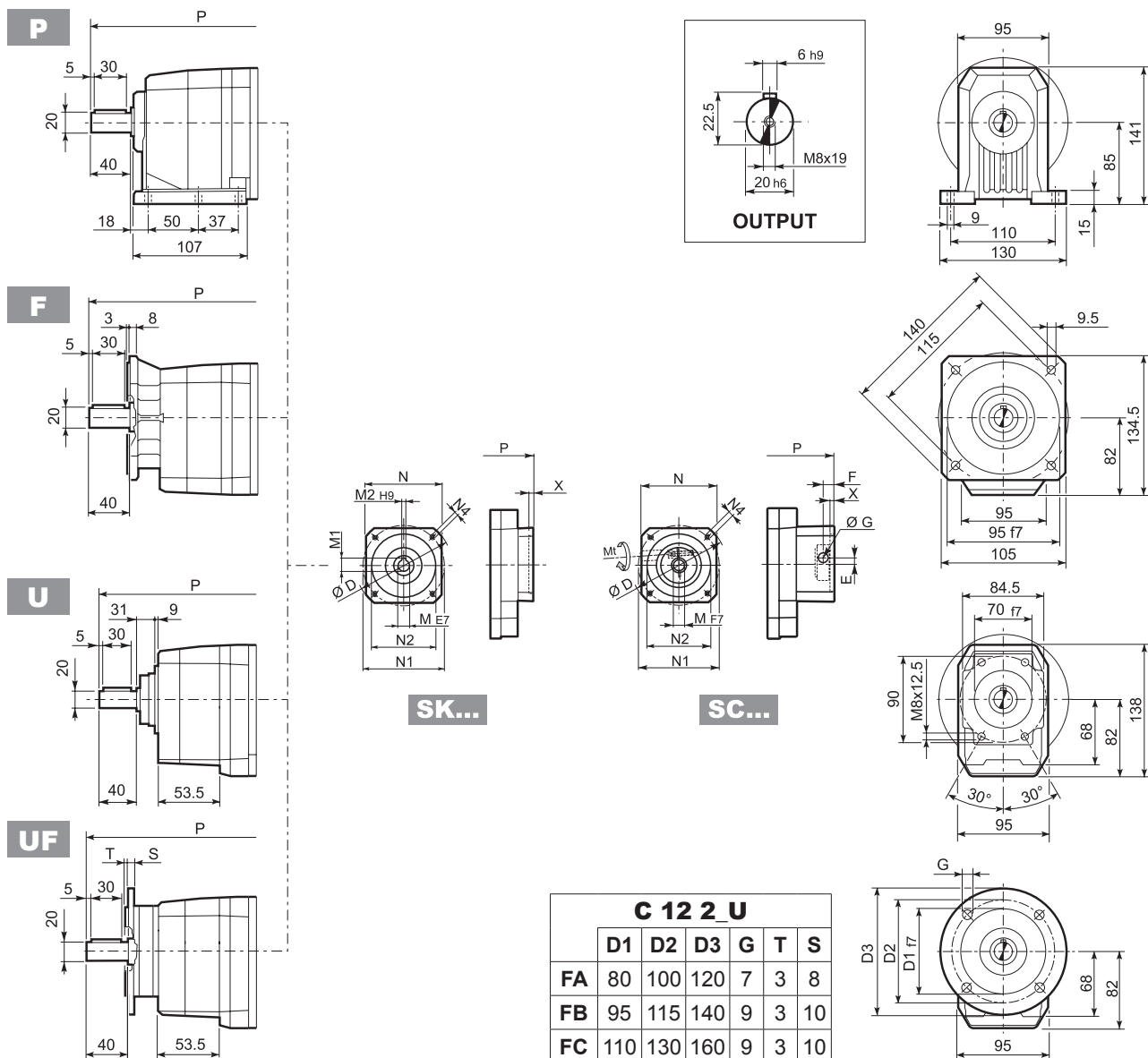


| C 12 2 U | | | | | | |
|----------|-----|-----|-----|---|---|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 80 | 100 | 120 | 7 | 3 | 8 |
| FB | 95 | 115 | 140 | 9 | 3 | 10 |
| FC | 110 | 130 | 160 | 9 | 3 | 10 |

| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| | | | | | | | | | | | | |
| C 12 2 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 244.5 | 6 |
| C 12 2 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 244.5 | 6 |
| C 12 2 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 264 | 7 |
| C 12 2 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 264 | 7 |
| C 12 2 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 274 | 11 |
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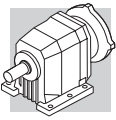
C 12...SK / SC



| C 12 2 U | | | | | | |
|----------|-----|-----|-----|---|---|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 80 | 100 | 120 | 7 | 3 | 8 |
| FB | 95 | 115 | 140 | 9 | 3 | 10 |
| FC | 110 | 130 | 160 | 9 | 3 | 10 |

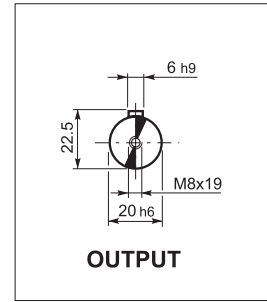
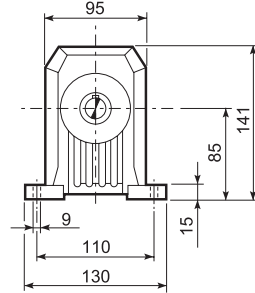
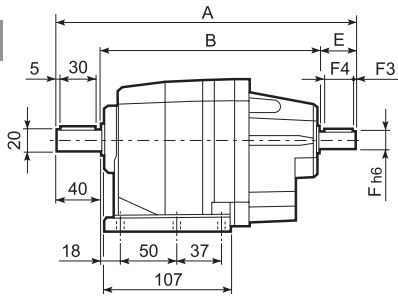
| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | |
|--------|--------|-----|----|------|----|-----|-----|-----|-------|-----|-----|---|
| C 12 2 | SK60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 216 | 6 |
| C 12 2 | SK60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 223 | 5 |
| C 12 2 | SK80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 223 | 5 |
| C 12 2 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 264 | 7 |
| C 12 2 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 264 | 6 |
| C 12 2 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 264 | 7 |
| C 12 2 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 264 | 7 |
| C 12 2 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 264 | 7 |
| C 12 2 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 264 | 7 |

| | | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | |
|--------|--------|----|-------|-----|------|------|-------|----|-----|-----|-----|-------|---|-------|----|
| C 12 2 | SC60A | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 243 | 7 |
| C 12 2 | SC60B | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 243 | 6 |
| C 12 2 | SC80A | M6 | 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 243 | 6 |
| C 12 2 | SC80C | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 287.5 | 8 |
| C 12 2 | SC95A | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 287.5 | 7 |
| C 12 2 | SC95B | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 287.5 | 8 |
| C 12 2 | SC95C | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 287.5 | 8 |
| C 12 2 | SC110A | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 287.5 | 10 |
| C 12 2 | SC110B | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 287.5 | 10 |

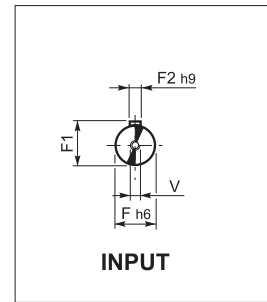
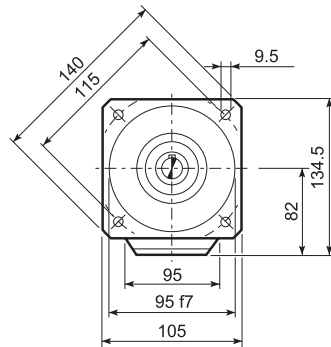
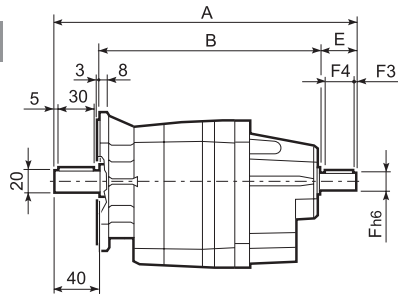


C 12...HS

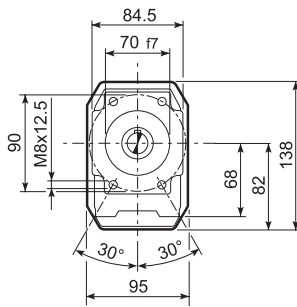
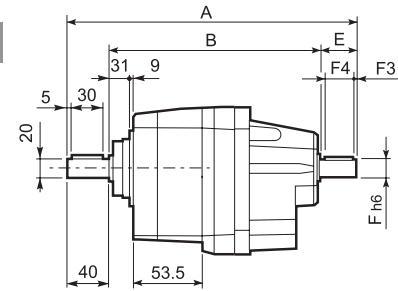
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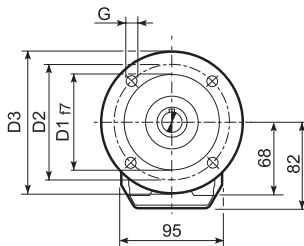
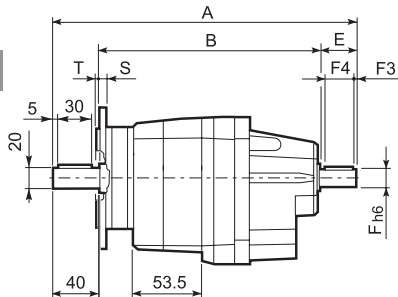
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U



UF

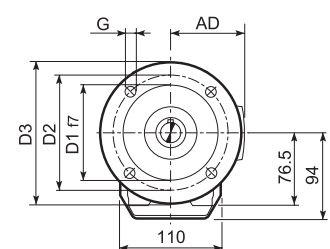
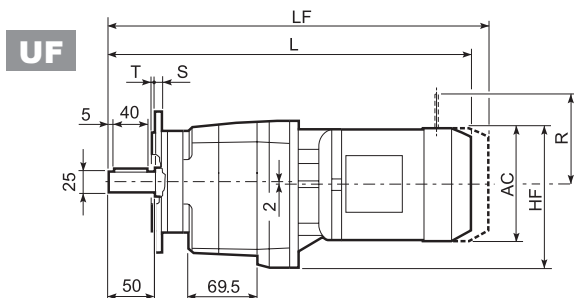
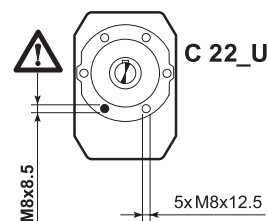
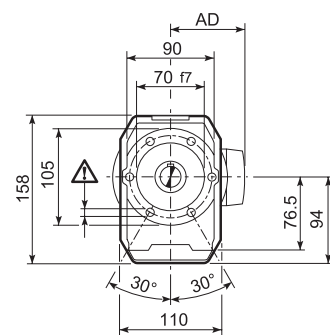
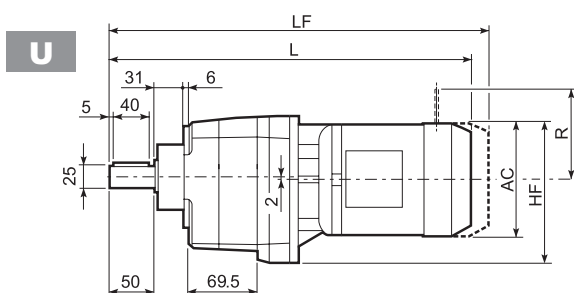
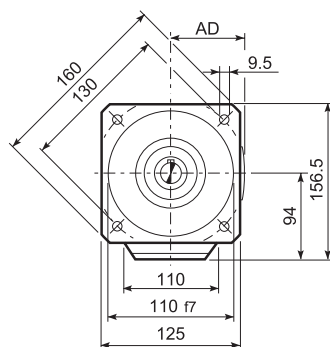
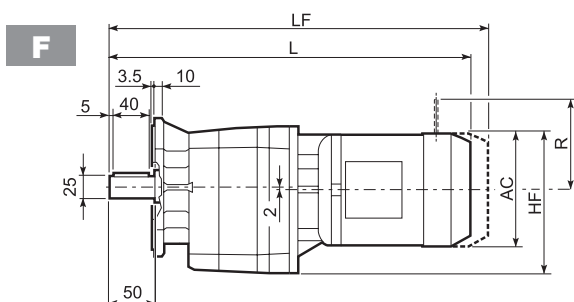
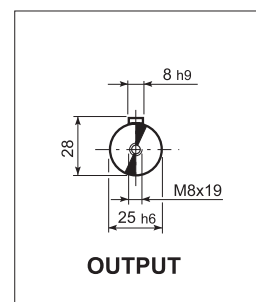
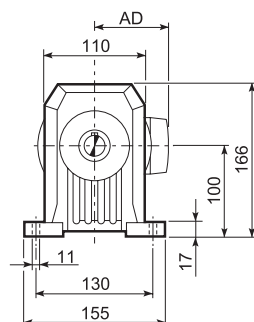
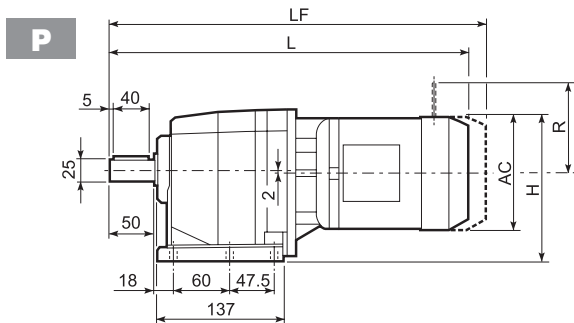


| C 12 2 U | | | | | | |
|----------|-----|-----|-----|---|---|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 80 | 100 | 120 | 7 | 3 | 8 |
| FB | 95 | 115 | 140 | 9 | 3 | 10 |
| FC | 110 | 130 | 160 | 9 | 3 | 10 |

| | | | A | B | E | F | F1 | F2 | F3 | F4 | V | |
|--------|----|--|-------|-------|----|----|----|----|-----|----|-------|-----|
| C 12 2 | HS | | 251.5 | 171.5 | 40 | 16 | 18 | 5 | 2.5 | 35 | M6x16 | 7.8 |

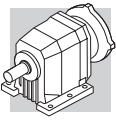


C 22...M



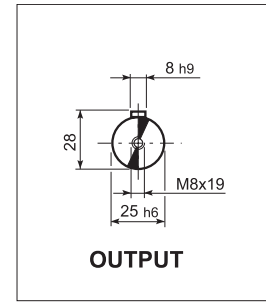
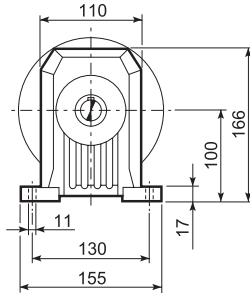
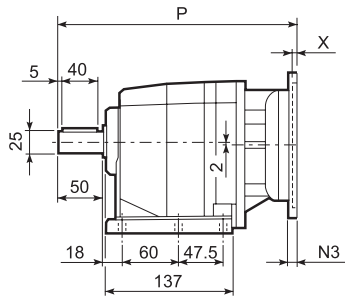
| C 22_U | | | | | | |
|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 95 | 115 | 140 | 9 | 3 | 10 |
| FB | 110 | 130 | 160 | 9 | 3 | 10 |
| FC | 130 | 165 | 200 | 11 | 3.5 | 11 |

| | | | AC | H | HF | L | AD | Kg | M...FD | Kg | M...FD | | M...FA | |
|--------|-----|-----|-----|-------|-------|-------|-----|----|--------|----|--------|-----|--------|-----|
| | | | | | | | | | M...FA | | R | AD | R | AD |
| C 22 2 | S05 | M05 | 121 | 160.5 | 154.5 | 399 | 95 | 8 | 465 | 10 | 96 | 119 | 116 | 95 |
| C 22 2 | S1 | M1 | 138 | 169 | 163 | 428 | 108 | 11 | 489 | 14 | 103 | 135 | 124 | 108 |
| C 22 2 | S2 | M2S | 156 | 178 | 170 | 456 | 119 | 16 | 527 | 19 | 129 | 146 | 134 | 119 |
| C 22 2 | S3 | M3S | 195 | 197.5 | 191.5 | 500 | 142 | 21 | 596 | 26 | 160 | 158 | 160 | 142 |
| C 22 2 | S3 | M3L | 195 | 197.5 | 191.5 | 532 | 142 | 27 | 623 | 32 | 160 | 158 | 160 | 142 |
| C 22 3 | S05 | M05 | 121 | 160.5 | 154.5 | 454.5 | 95 | 11 | 520.5 | 12 | 96 | 122 | 116 | 95 |
| C 22 3 | S1 | M1 | 138 | 169 | 163 | 483.5 | 108 | 13 | 544.5 | 15 | 103 | 135 | 124 | 108 |
| C 22 3 | S2 | M2S | 156 | 178 | 170 | 511.5 | 119 | 18 | 582.5 | 21 | 129 | 146 | 134 | 119 |
| C 22 3 | S3 | M3S | 195 | 197.5 | 191.5 | 555.5 | 142 | 23 | 601.5 | 28 | 160 | 158 | 160 | 142 |
| C 22 3 | S3 | M3L | 195 | 197.5 | 191.5 | 587.5 | 142 | 29 | 678.5 | 34 | 160 | 158 | 160 | 142 |

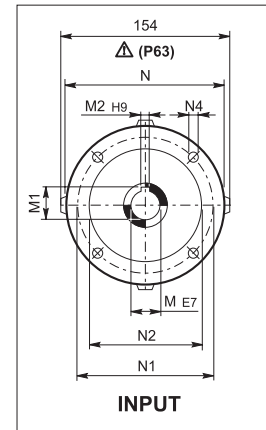
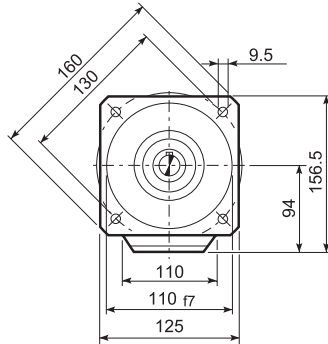
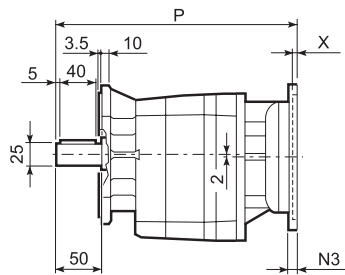


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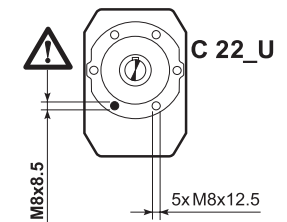
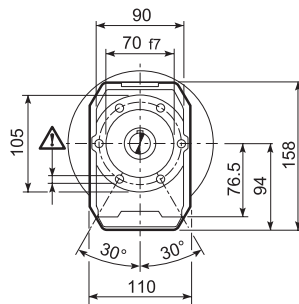
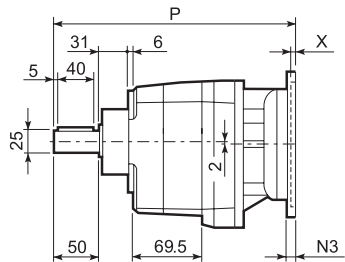
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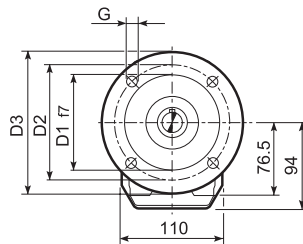
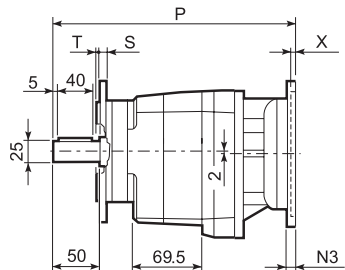
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U



UF

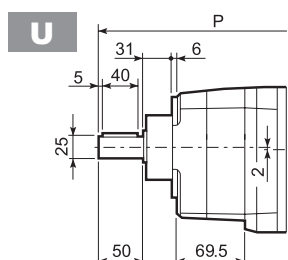
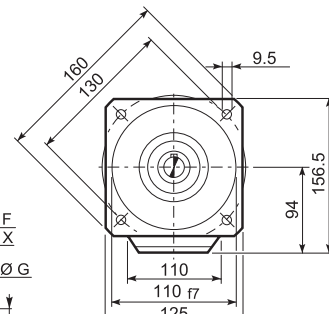
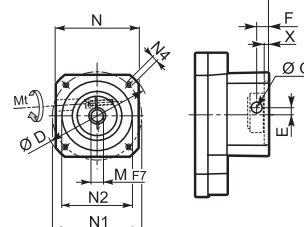
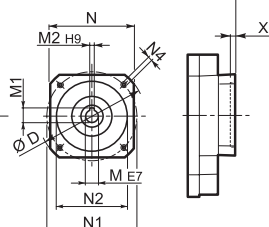
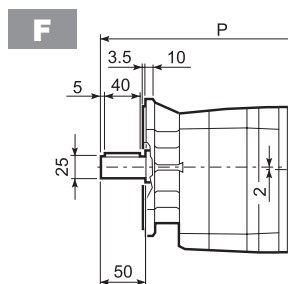
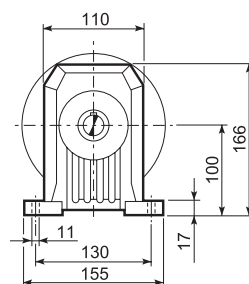
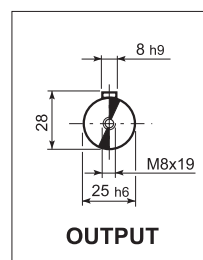
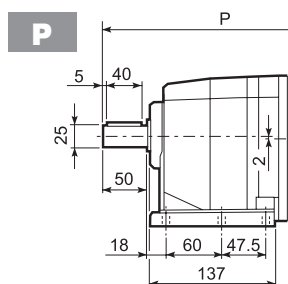


| C 22_U | | | | | | |
|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 95 | 115 | 140 | 9 | 3 | 10 |
| FB | 110 | 130 | 160 | 9 | 3 | 10 |
| FC | 130 | 165 | 200 | 11 | 3.5 | 11 |

| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| C 22 2 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 273 | 7 |
| C 22 2 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 273 | 7 |
| C 22 2 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 292.5 | 8 |
| C 22 2 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 292.5 | 8 |
| C 22 2 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 302.5 | 12 |
| C 22 2 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 302.5 | 12 |
| C 22 3 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 328.5 | 8 |
| C 22 3 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 328.5 | 8 |
| C 22 3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 348 | 9 |
| C 22 3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 348 | 9 |
| C 22 3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 358 | 13 |
| C 22 3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 358 | 13 |

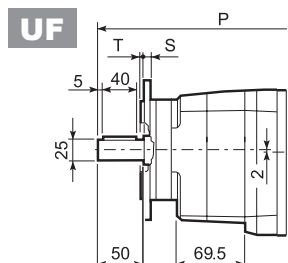
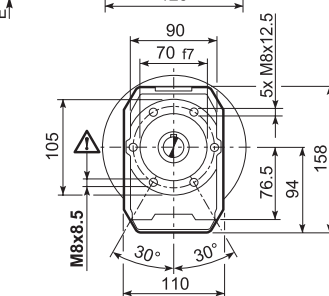


C 22...SK / SC

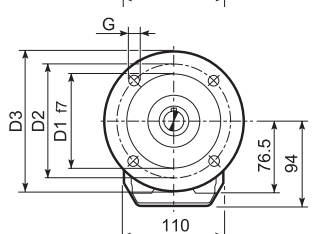


SK...

SC...



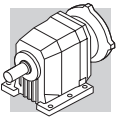
| C 22 U | | | | | | |
|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 95 | 115 | 140 | 9 | 3 | 10 |
| FB | 110 | 130 | 160 | 9 | 3 | 10 |
| FC | 130 | 165 | 200 | 11 | 3.5 | 11 |



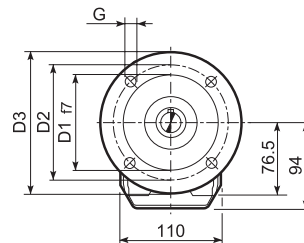
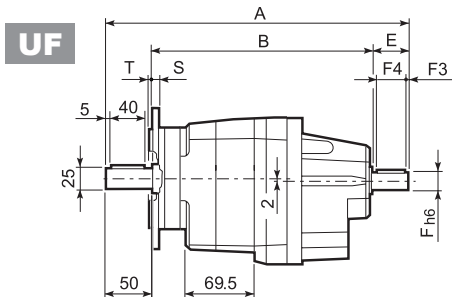
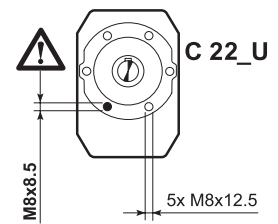
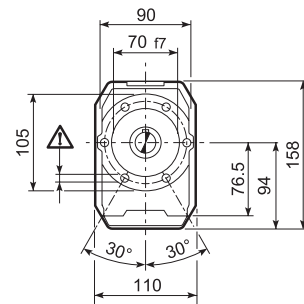
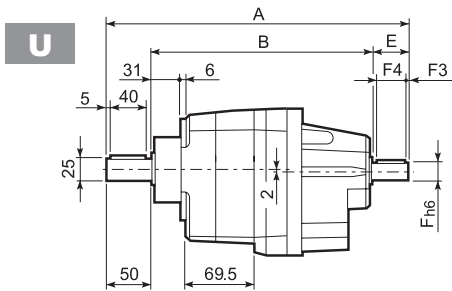
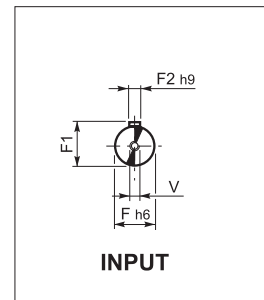
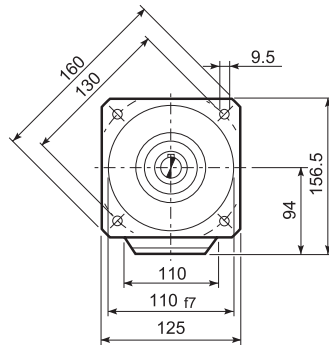
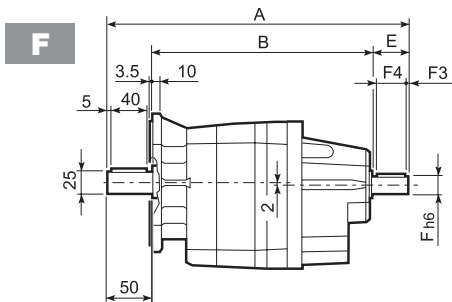
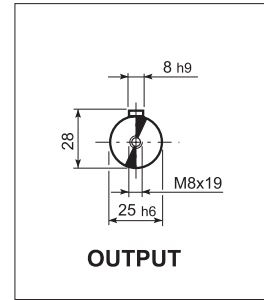
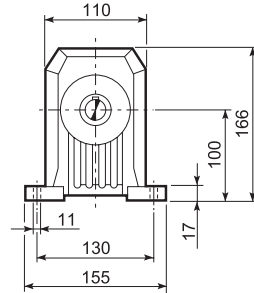
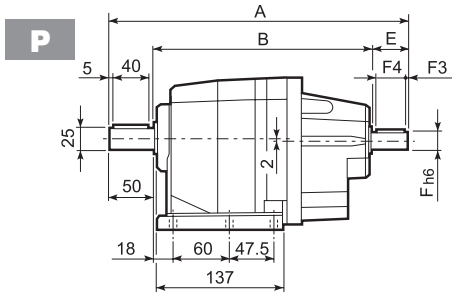
| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|----------|--------|-----|----|------|----|-----|-----|-----|-------|-----|-------|-----|-----|
| | | | | | | | | | | | 2x | 3x | |
| C 22 2/3 | SK60A* | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 224.5 | 300 | 6/9 |
| C 22 2/3 | SK60B* | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 251.5 | 307 | 7/8 |
| C 22 2/3 | SK80A* | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 251.5 | 307 | 7/8 |
| C 22 2/3 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 292.5 | 348 | 8/9 |
| C 22 2/3 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 292.5 | 348 | 8/9 |
| C 22 2/3 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 292.5 | 348 | 8/9 |
| C 22 2/3 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 292.5 | 348 | 8/9 |
| C 22 2/3 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 292.5 | 348 | 8/9 |
| C 22 2/3 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 292.5 | 348 | 8/9 |

| | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|----------|--------|----------|-----|------|------|-------|----|-----|-----|-----|-------|---|-------|-------|-------|
| | | | | | | | | | | | | | 2x | 3x | |
| C 22 2/3 | SC60A* | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 271.5 | 327 | 7/8 |
| C 22 2/3 | SC60B* | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 271.5 | 327 | 8/9 |
| C 22 2/3 | SC80A* | M6 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 271.5 | 327 | 8/9 |
| C 22 2/3 | SC80C | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 316 | 371.5 | 9/10 |
| C 22 2/3 | SC95A | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 316 | 371.5 | 9/10 |
| C 22 2/3 | SC95B | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 316 | 371.5 | 9/10 |
| C 22 2/3 | SC95C | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 316 | 371.5 | 9/10 |
| C 22 2/3 | SC110A | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 316 | 371.5 | 10/11 |
| C 22 2/3 | SC110B | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 316 | 371.5 | 10/11 |

* Consulter notre service technique en donnant les détails concernant l'application



C 22...HS

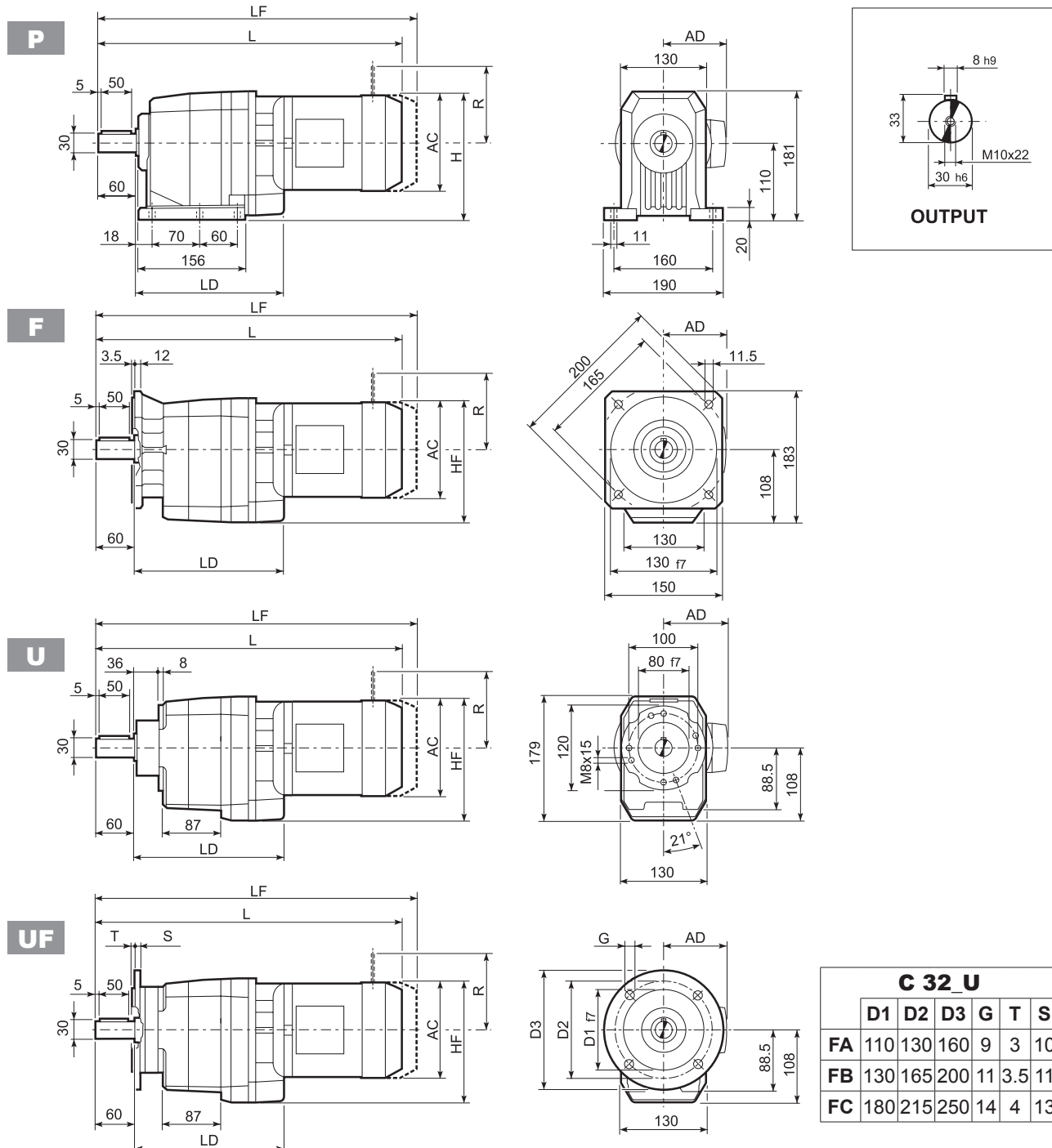


| C 22_U | | | | | | |
|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 95 | 115 | 140 | 9 | 3 | 10 |
| FB | 110 | 130 | 160 | 9 | 3 | 10 |
| FC | 130 | 165 | 200 | 11 | 3.5 | 11 |

| | | A | B | E | F | F1 | F2 | F3 | F4 | V | kg |
|--------|----|-------|-------|----|----|------|----|-----|----|-------|-----|
| C 22 2 | HS | 323 | 233 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 7.2 |
| C 22 3 | | 335.5 | 245.5 | 40 | 16 | 18 | 6 | 2.5 | 36 | M6x16 | 7.5 |

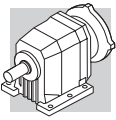


C 32...M



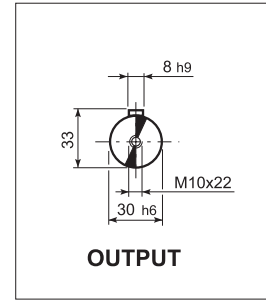
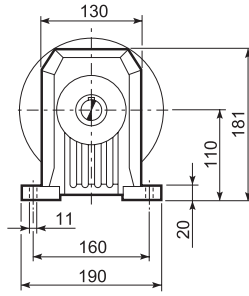
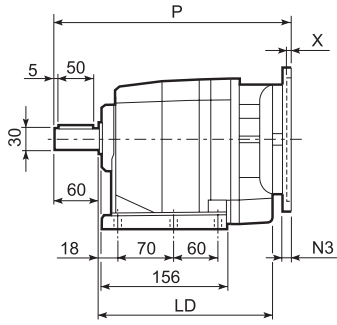
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|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 110 | 130 | 160 | 9 | 3 | 10 |
| FB | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FC | 180 | 215 | 250 | 14 | 4 | 13 |

| | | | AC | H | HF | L | LD | AD | Kg | M...FD M...FA | | M...FD | | M...FA | |
|--------|-----|------|-----|-------|-------|-------|-------|-----|----|------------------|----|--------|-----|--------|-----|
| | | | | | | | | | | R | AD | R | AD | R | AD |
| C 32 2 | S1 | M1 | 138 | 179 | 177 | 462.5 | 205.5 | 108 | 14 | 523.5 | 16 | 103 | 135 | 124 | 108 |
| C 32 2 | S2 | M2S | 156 | 188 | 186 | 490.5 | 217.5 | 119 | 18 | 561.5 | 21 | 129 | 146 | 134 | 119 |
| C 32 2 | S3 | M3S | 195 | 207.5 | 205.5 | 534.5 | 227.5 | 142 | 23 | 630.5 | 28 | 160 | 158 | 160 | 142 |
| C 32 2 | S3 | M3L | 195 | 207.5 | 205.5 | 566.5 | 227.5 | 142 | 32 | 657.5 | 37 | 160 | 158 | 160 | 142 |
| C 32 2 | S4 | M4 | 258 | 239 | 237 | 674.5 | — | 193 | 66 | 738.5 | 82 | 226 | 210 | 217 | 193 |
| C 32 2 | S4 | M4LC | 258 | 239 | 237 | 709.5 | — | 193 | 74 | 763.5 | 90 | 226 | 210 | 217 | 193 |
| C 32 3 | S05 | M05 | 121 | 170.5 | 168.5 | 491 | — | 95 | 13 | 557 | 15 | 96 | 122 | 116 | 95 |
| C 32 3 | S1 | M1 | 138 | 179 | 177 | 520 | — | 108 | 15 | 581 | 17 | 103 | 135 | 124 | 108 |
| C 32 3 | S2 | M2S | 156 | 188 | 186 | 548 | — | 119 | 18 | 619 | 21 | 129 | 146 | 134 | 119 |
| C 32 3 | S3 | M3S | 195 | 207.5 | 205.5 | 592 | — | 142 | 24 | 688 | 29 | 160 | 158 | 160 | 142 |
| C 32 3 | S3 | M3L | 195 | 207.5 | 205.5 | 624 | — | 142 | 33 | 715 | 38 | 160 | 158 | 160 | 142 |

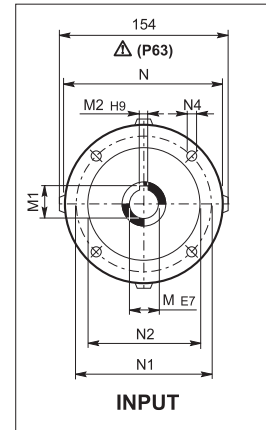
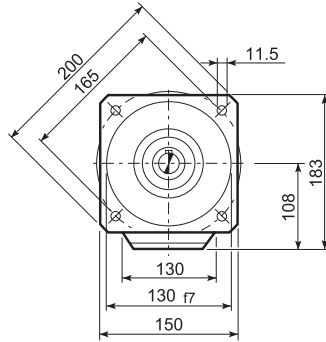
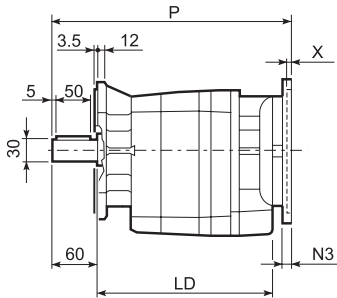


C 32...P(IEC)

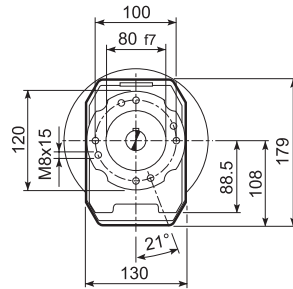
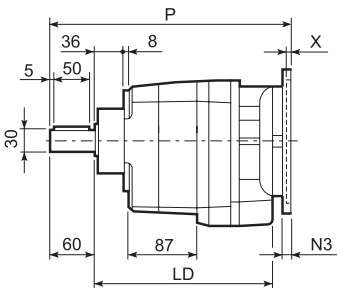
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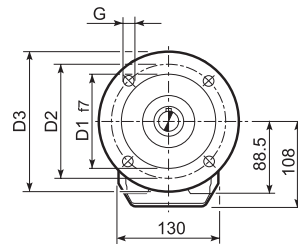
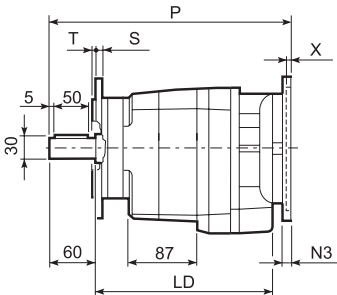
F



U



UF

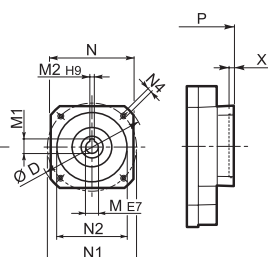
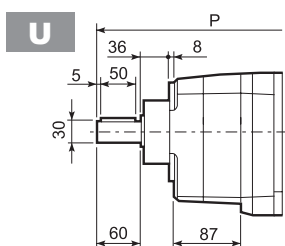
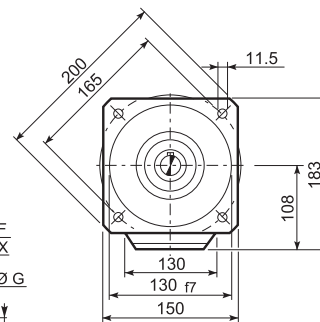
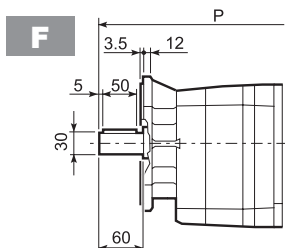
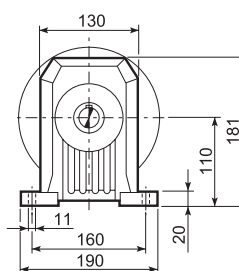
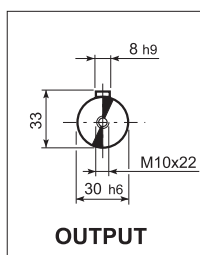
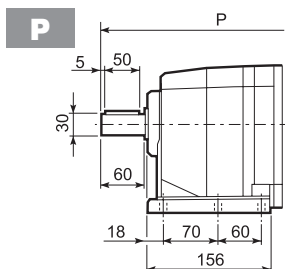


| C 32_U | | | | | | |
|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 110 | 130 | 160 | 9 | 3 | 10 |
| FB | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FC | 180 | 215 | 250 | 14 | 4 | 13 |

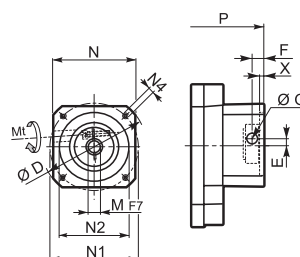
| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | |
|--------|------|-------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| C 32 2 | P63 | 217.5 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 307.5 | 9 |
| C 32 2 | P71 | 217.5 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 307.5 | 9 |
| C 32 2 | P80 | 227.5 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 327 | 10 |
| C 32 2 | P90 | 227.5 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 327 | 10 |
| C 32 2 | P100 | 227.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 337 | 14 |
| C 32 2 | P112 | 227.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 337 | 14 |
| C 32 2 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 373 | 17 |
| C 32 3 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 365 | 10 |
| C 32 3 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 365 | 10 |
| C 32 3 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 384.5 | 11 |
| C 32 3 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 384.5 | 11 |
| C 32 3 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 394.5 | 15 |
| C 32 3 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 394.5 | 15 |



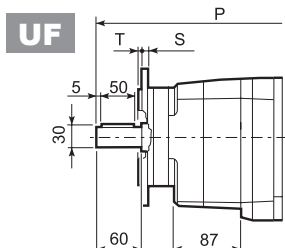
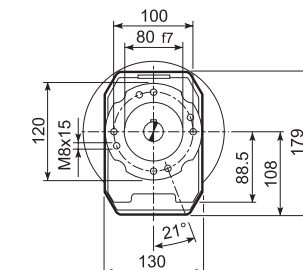
C 32...SK / SC



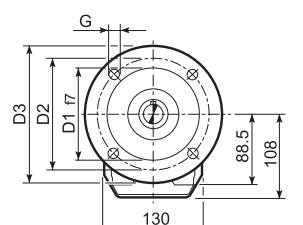
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SC...

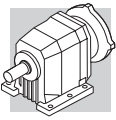


| C 32_U | | | | | | |
|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 110 | 130 | 160 | 9 | 3 | 10 |
| FB | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FC | 180 | 215 | 250 | 14 | 4 | 13 |

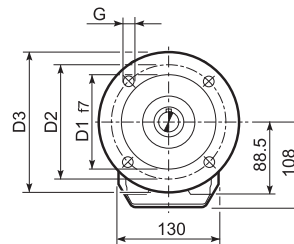
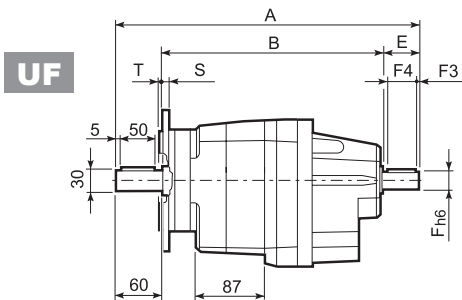
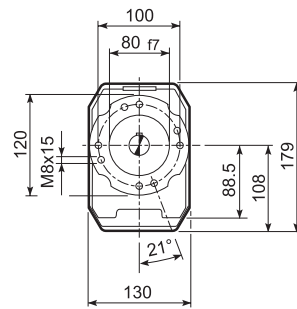
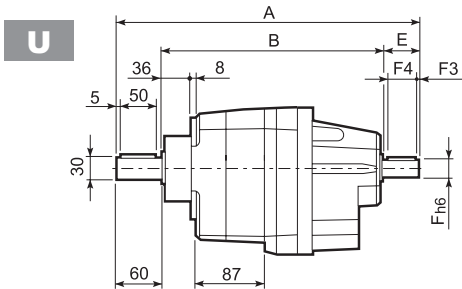
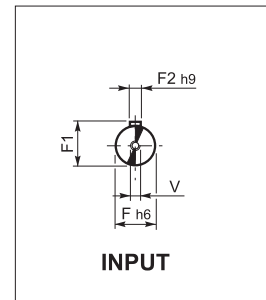
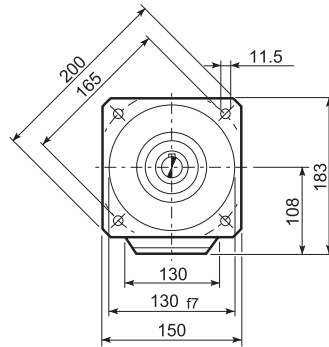
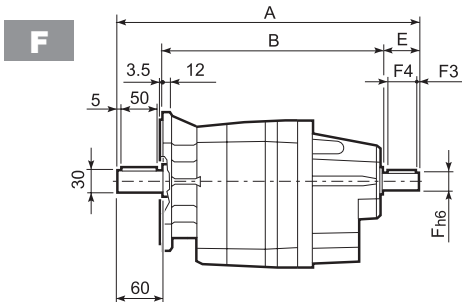
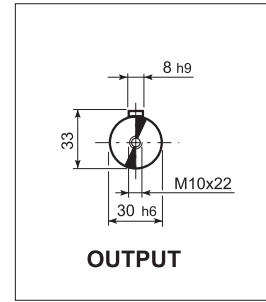
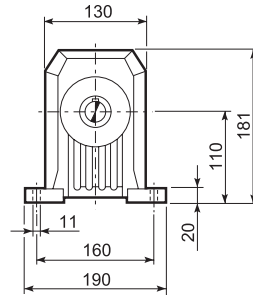
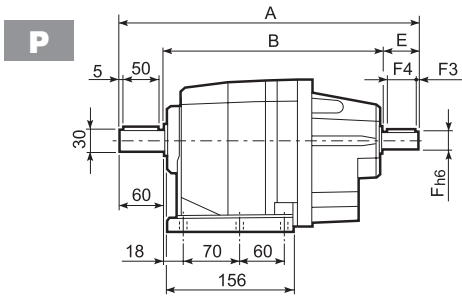


| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|----------|--------|-----|----|------|----|-----|-----|-----|--------|-----|-----|-------|-------|
| | | | | | | | | | | | 2x | 3x | |
| C 32 2/3 | SK60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 279 | 336.5 | 8/9 |
| C 32 2/3 | SK60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 286 | 343.5 | 9/10 |
| C 32 2/3 | SK80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 286 | 343.5 | 9/10 |
| C 32 2/3 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 327 | 384.5 | 10/11 |
| C 32 2/3 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 327 | 384.5 | 10/11 |
| C 32 2/3 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 327 | 384.5 | 10/11 |
| C 32 2/3 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 327 | 384.5 | 10/11 |
| C 32 2/3 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 327 | 384.5 | 10/11 |
| C 32 2/3 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 327 | 384.5 | 10/11 |
| C 32 2 | SK130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 327 | — | 11 |

| | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|----------|---------|----------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|-------|-------|
| | | | | | | | | | | | | | 2x | 3x | |
| C 32 2/3 | SC60A | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 306 | 363.5 | 9/10 |
| C 32 2/3 | SC60B | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 306 | 363.5 | 10/11 |
| C 32 2/3 | SC80A | M6 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 306 | 363.5 | 10/11 |
| C 32 2/3 | SC80C | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 350.5 | 408 | 11/12 |
| C 32 2/3 | SC95A | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 350.5 | 408 | 11/12 |
| C 32 2/3 | SC95B | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 350.5 | 408 | 11/12 |
| C 32 2/3 | SC95C | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 350.5 | 408 | 11/12 |
| C 32 2/3 | SC 110A | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 350.5 | 408 | 12/13 |
| C 32 2/3 | SC 110B | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 350.5 | 408 | 12/13 |
| C 32 2 | SC 130A | M6 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 350.5 | — | 13 |



C 32...HS

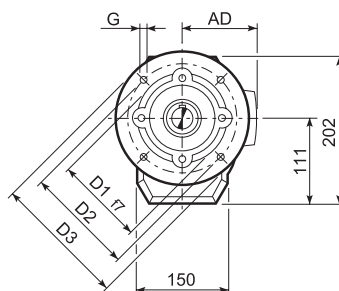
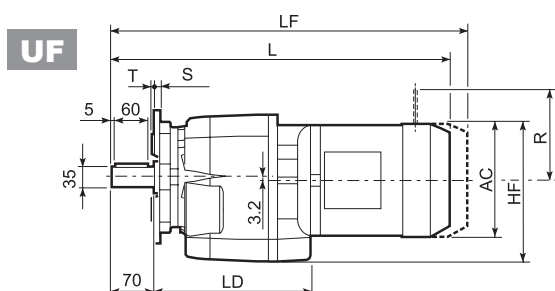
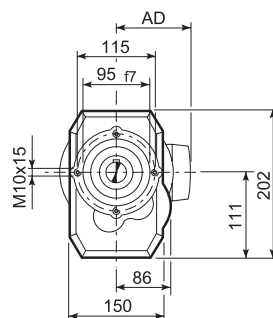
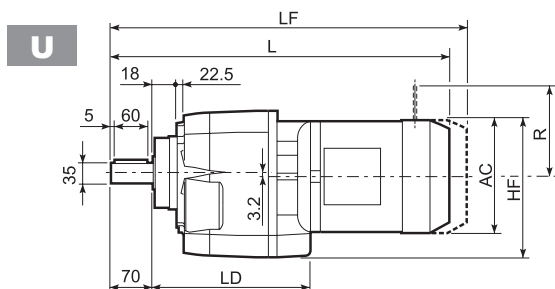
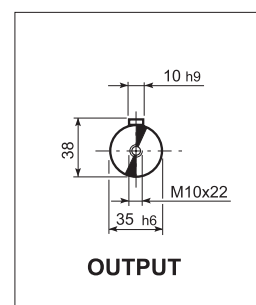
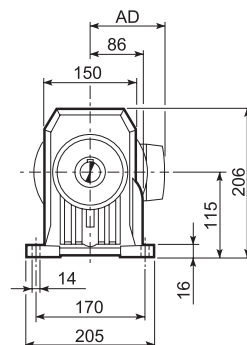
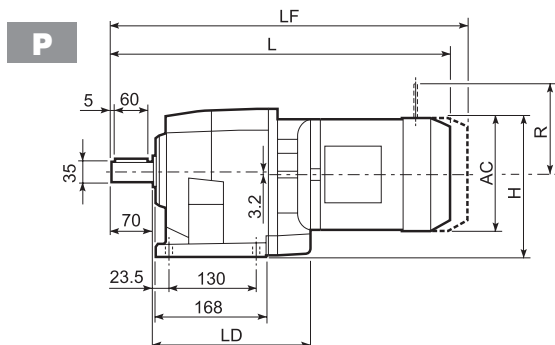


| C 32_U | | | | | | |
|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 110 | 130 | 160 | 9 | 3 | 10 |
| FB | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FC | 180 | 215 | 250 | 14 | 4 | 13 |

| | | A | B | E | F | F1 | F2 | F3 | F4 | V | kg |
|--------|----|-------|-------|----|----|------|----|-----|----|-------|------|
| C 32 2 | HS | 357.5 | 257.5 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 11.1 |
| C 32 3 | | 372 | 272 | 40 | 16 | 18 | 5 | 2.5 | 36 | M6x16 | 10.6 |

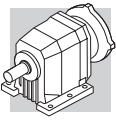


C 36...M



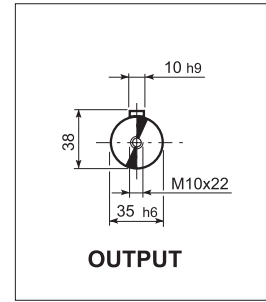
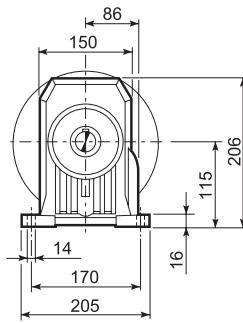
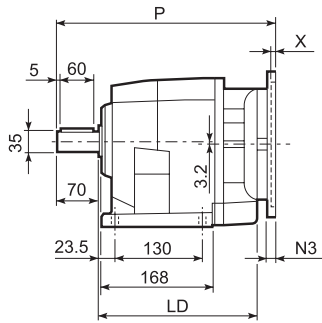
| C 36 U | | | | | | |
|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FB | 180 | 215 | 250 | 14 | 4 | 14 |

| | | | AC | H | HF | L | LD | AD | Kg | M...FD M...FA | | M...FD | | M...FA | |
|----------|-----|------|-----|-------|-------|-------|-----|-----|----|------------------|----|--------|-----|--------|-----|
| | | | | | | | | | | LF | Kg | R | AD | R | AD |
| C 36 2/3 | S1 | M1 | 138 | 184 | 177 | 481 | 214 | 108 | 20 | 542 | 21 | 103 | 135 | 124 | 108 |
| C 36 2/3 | S2 | M2S | 156 | 193 | 186 | 509 | 226 | 119 | 23 | 580 | 27 | 129 | 146 | 134 | 119 |
| C 36 2/3 | S3 | M3S | 195 | 212.5 | 205.5 | 553 | 236 | 142 | 28 | 649 | 33 | 160 | 158 | 160 | 142 |
| C 36 2/3 | S3 | M3L | 195 | 212.5 | 205.5 | 585 | 236 | 142 | 37 | 676 | 42 | 160 | 158 | 160 | 142 |
| C 36 2/3 | S4 | M4 | 258 | 244 | 240 | 693.5 | — | 193 | 71 | 802.5 | 87 | 226 | 210 | 217 | 193 |
| C 36 2/3 | S4 | M4LC | 258 | 244 | 240 | 728.5 | — | 193 | 79 | 827.5 | 95 | 226 | 210 | 217 | 193 |
| C 36 4 | S05 | M05 | 121 | 175.5 | 168.5 | 509.5 | — | 95 | 19 | 575.5 | 20 | 96 | 122 | 116 | 95 |
| C 36 4 | S1 | M1 | 138 | 184 | 177 | 538.5 | — | 108 | 21 | 599.5 | 22 | 103 | 135 | 124 | 108 |
| C 36 4 | S2 | M2S | 156 | 193 | 186 | 566.5 | — | 119 | 24 | 637.5 | 28 | 129 | 146 | 134 | 119 |
| C 36 4 | S3 | M3S | 195 | 212.5 | 205.5 | 610.5 | — | 142 | 29 | 706.5 | 34 | 160 | 158 | 160 | 142 |
| C 36 4 | S3 | M3L | 195 | 212.5 | 205.5 | 642.5 | — | 142 | 38 | 733.5 | 43 | 160 | 158 | 160 | 142 |

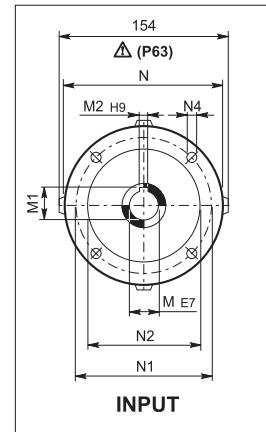
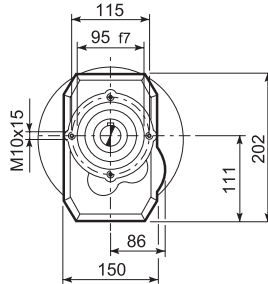
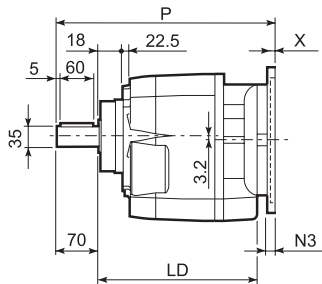


C 36...P(IEC)

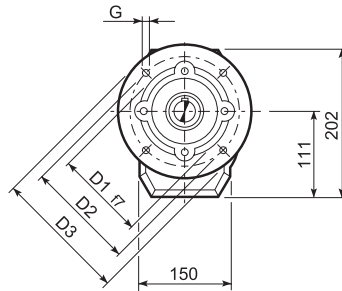
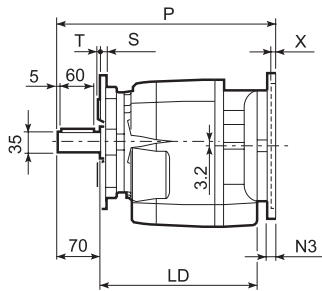
P



U



UF



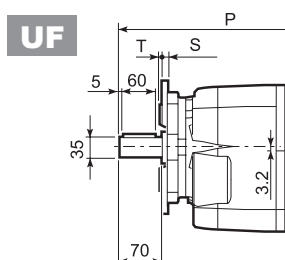
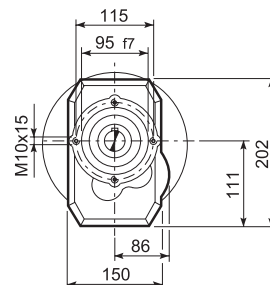
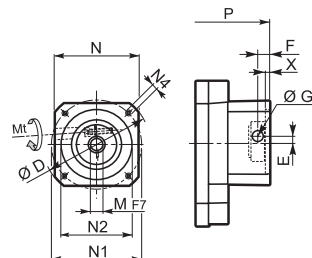
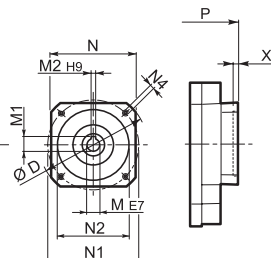
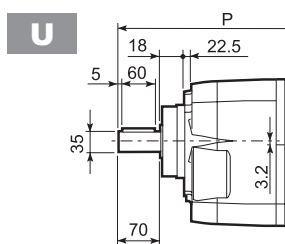
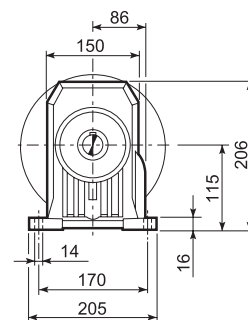
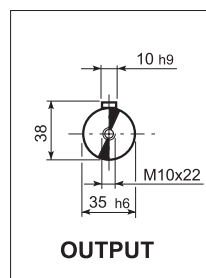
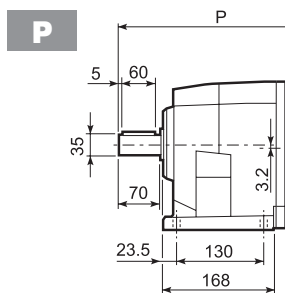
C 36 U

| | D1 | D2 | D3 | G | T | S |
|----|-----|-----|-----|----|-----|----|
| FA | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FB | 180 | 215 | 250 | 14 | 4 | 14 |

| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | kg |
|----------|------|-----|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| C 36 2/3 | P63 | 226 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 326 | 17 |
| C 36 2/3 | P71 | 226 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 326 | 17 |
| C 36 2/3 | P80 | 236 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 345.5 | 18 |
| C 36 2/3 | P90 | 236 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 345.5 | 18 |
| C 36 2/3 | P100 | 236 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 355.5 | 22 |
| C 36 2/3 | P112 | 236 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 355.5 | 22 |
| C 36 2/3 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 392.5 | 25 |
| C 36 4 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 383.5 | 20 |
| C 36 4 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 383.5 | 20 |
| C 36 4 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 403 | 21 |
| C 36 4 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 403 | 21 |
| C 36 4 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 413 | 25 |
| C 36 4 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 413 | 25 |

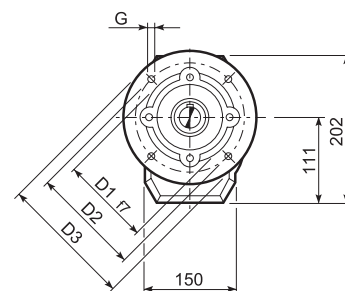


C 36...SK / SC



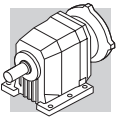
C 36 U

| | D1 | D2 | D3 | G | T | S |
|----|-----|-----|-----|----|-----|----|
| FA | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FB | 180 | 215 | 250 | 14 | 4 | 14 |



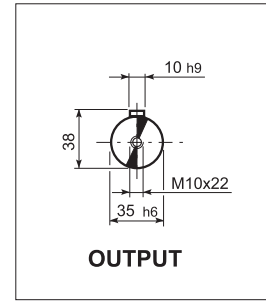
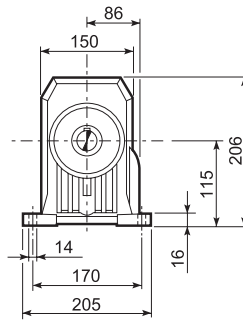
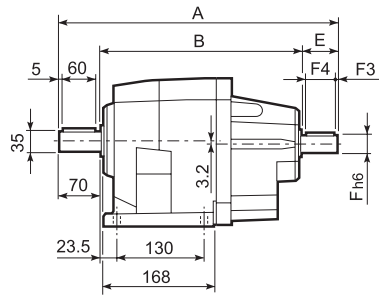
| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|------------|--------|-----|----|------|----|-----|-----|-----|--------|-----|-------|-----|----------|
| | | | | | | | | | | | 2/3x | 4x | |
| C 36 2/3/4 | SK60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 297.5 | 355 | 16/16/19 |
| C 36 2/3/4 | SK60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 304.5 | 362 | 17/17/20 |
| C 36 2/3/4 | SK80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 304.5 | 362 | 18/18/21 |
| C 36 2/3/4 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 304.5 | 403 | 18/18/21 |
| C 36 2/3/4 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 345.5 | 403 | 18/18/21 |
| C 36 2/3/4 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 345.5 | 403 | 18/18/21 |
| C 36 2/3/4 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 345.5 | 403 | 18/18/21 |
| C 36 2/3/4 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 345.5 | 403 | 18/18/21 |
| C 36 2/3/4 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 345.5 | 403 | 18/18/21 |
| C 36 2/3 | SK130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 345.5 | — | 19/19 |

| | | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|------------|--------|----|-------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|-------|----------|
| | | | | | | | | | | | | | | 2/3x | 4x | |
| C 36 2/3/4 | SC60A | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 324.5 | 382 | 17/17/20 |
| C 36 2/3/4 | SC60B | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 324.5 | 382 | 18/18/21 |
| C 36 2/3/4 | SC80A | M6 | 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 324.5 | 426.5 | 18/18/21 |
| C 36 2/3/4 | SC80C | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 369 | 426.5 | 19/19/22 |
| C 36 2/3/4 | SC95A | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 369 | 426.5 | 19/19/22 |
| C 36 2/3/4 | SC95B | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 369 | 426.5 | 19/19/22 |
| C 36 2/3/4 | SC95C | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 369 | 426.5 | 19/19/22 |
| C 36 2/3/4 | SC110A | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 369 | 426.5 | 21/21/24 |
| C 36 2/3/4 | SC110B | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 369 | 426.5 | 21/21/24 |
| C 36 2/3 | SC130A | M6 | 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 369 | — | 22/22 |

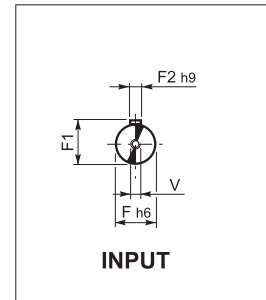
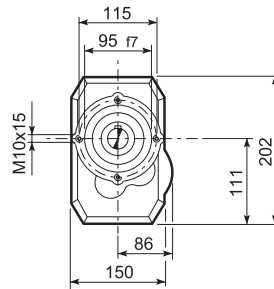
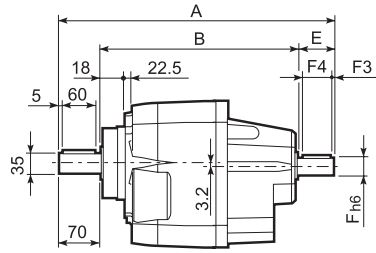


C 36...HS

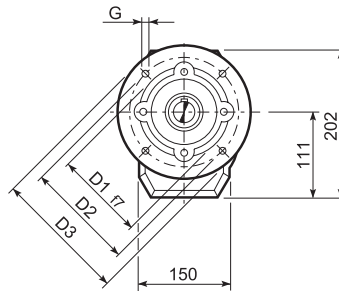
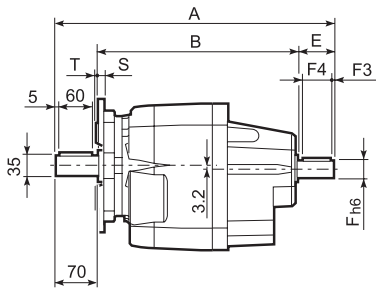
P



U



UF

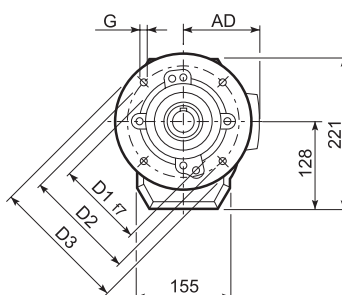
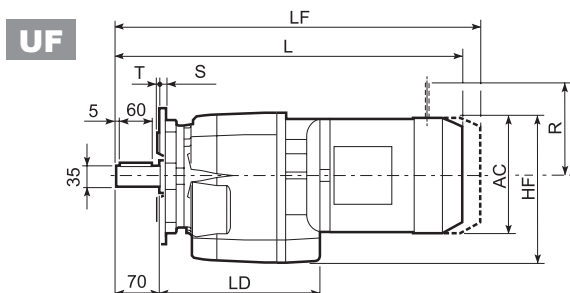
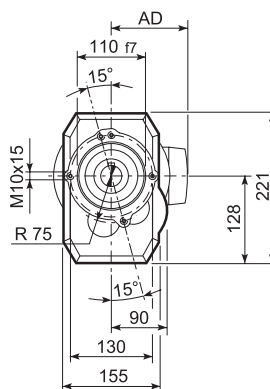
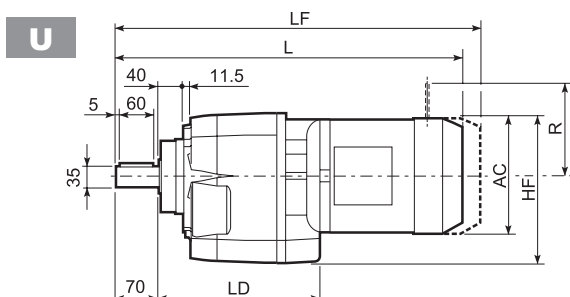
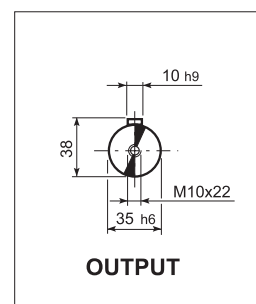
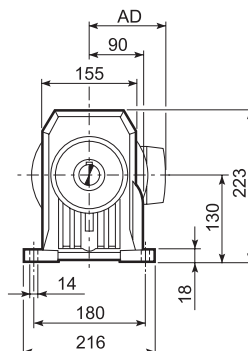
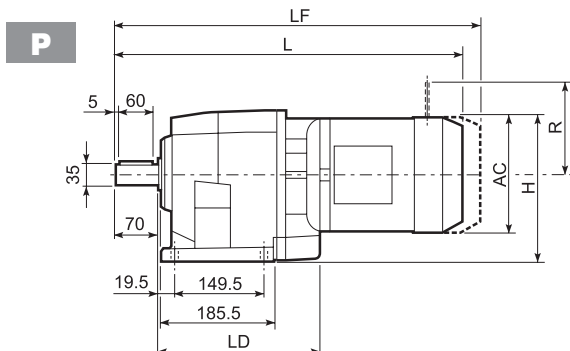


| C 36 U | | | | | | |
|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FB | 180 | 215 | 250 | 14 | 4 | 14 |

| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|-------|----|----|----|----|-----|----|-------|------|
| C 36 2 | HS | 415.5 | 295.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 25.5 |
| C 36 3 | | 415.5 | 295.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 25.5 |
| C 36 4 | | 390.5 | 280.5 | 40 | 16 | 18 | 5 | 2.5 | 36 | M6x16 | 26.5 |

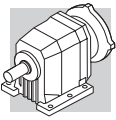


C 41...M



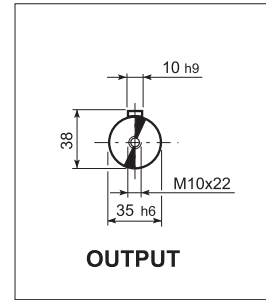
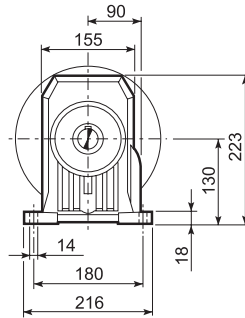
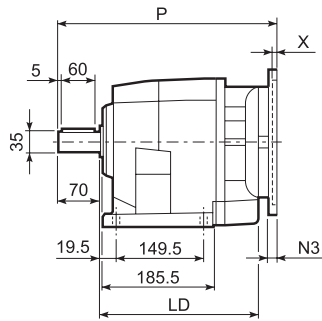
| C 41_U | | | | | | |
|--------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FB | 180 | 215 | 250 | 14 | 4 | 13 |

| | | | AC | H | HF | L | LD | AD | Kg | M...FD | Kg | M...FD | | M...FA | |
|----------|-----|------|-----|-------|-------|-------|-------|-----|----|--------|----|--------|-----|--------|-----|
| | | | | | | | | | | LF | | R | AD | R | AD |
| C 41 2/3 | S1 | M1 | 138 | 199 | 197 | 491.5 | 220 | 108 | 25 | 552.5 | 28 | 103 | 135 | 124 | 108 |
| C 41 2/3 | S2 | M2S | 156 | 208 | 206 | 519.5 | 235.5 | 119 | 31 | 590.5 | 34 | 129 | 146 | 134 | 119 |
| C 41 2/3 | S3 | M3S | 195 | 227.5 | 225.5 | 563.5 | 251.5 | 142 | 36 | 659.5 | 41 | 160 | 158 | 160 | 142 |
| C 41 2/3 | S3 | M3L | 195 | 227.5 | 225.5 | 595.5 | 251.5 | 142 | 45 | 686.5 | 50 | 160 | 158 | 160 | 142 |
| C 41 2/3 | S4 | M4 | 258 | 259 | 257 | 703.5 | — | 193 | 71 | 812.5 | 83 | 226 | 210 | 217 | 193 |
| C 41 2/3 | S4 | M4LC | 258 | 259 | 257 | 739 | — | 193 | 78 | 838 | 91 | 226 | 210 | 217 | 193 |
| C 41 4 | S05 | M05 | 231 | 245.5 | 243.5 | 524 | — | 95 | 27 | 590 | 28 | 96 | 122 | 116 | 95 |
| C 41 4 | S1 | M1 | 138 | 199 | 197 | 553 | — | 108 | 28 | 614 | 31 | 103 | 135 | 124 | 108 |
| C 41 4 | S2 | M2S | 156 | 208 | 206 | 581 | — | 119 | 34 | 652 | 37 | 129 | 146 | 134 | 119 |
| C 41 4 | S3 | M3S | 195 | 227.5 | 225.5 | 625 | — | 142 | 39 | 721 | 44 | 160 | 158 | 160 | 142 |
| C 41 4 | S3 | M3L | 195 | 227.5 | 225.5 | 657 | — | 142 | 48 | 748 | 53 | 160 | 158 | 160 | 142 |

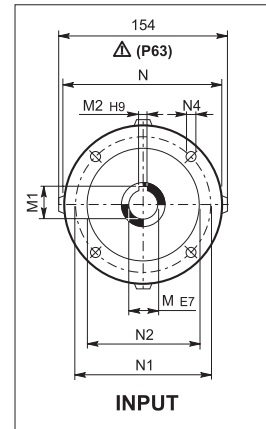
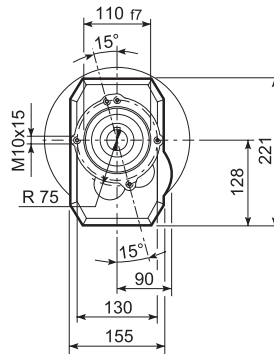
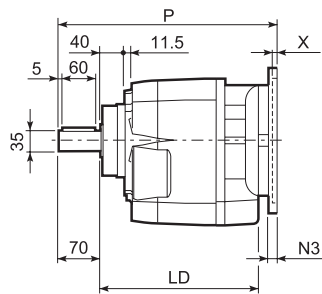


C 41...P(IEC)

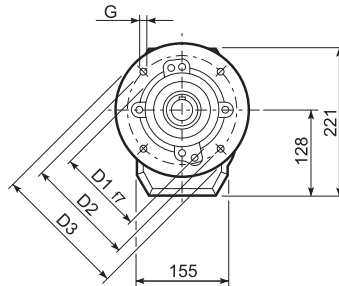
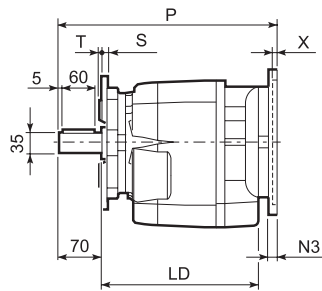
P



U



UF



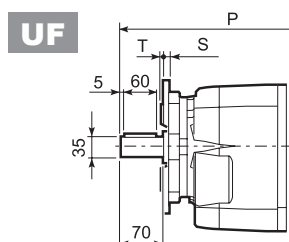
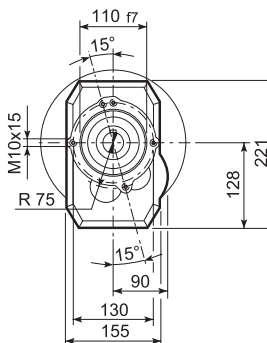
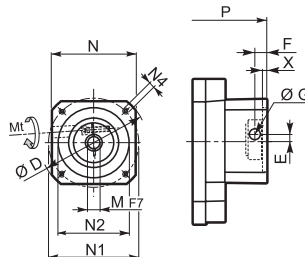
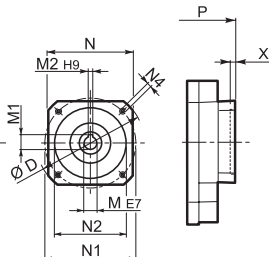
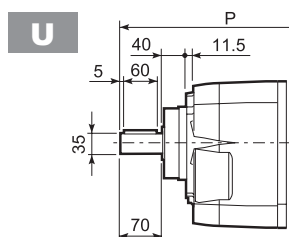
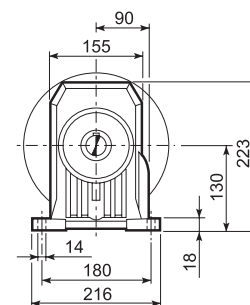
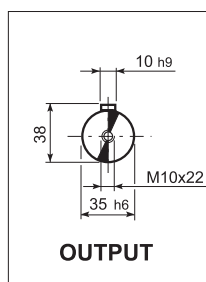
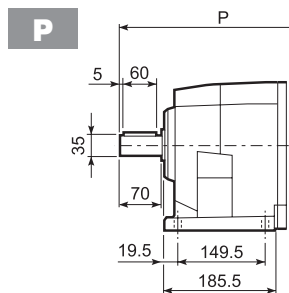
C 41 U

| | D1 | D2 | D3 | G | T | S |
|----|-----|-----|-----|----|-----|----|
| FA | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FB | 180 | 215 | 250 | 14 | 4 | 13 |

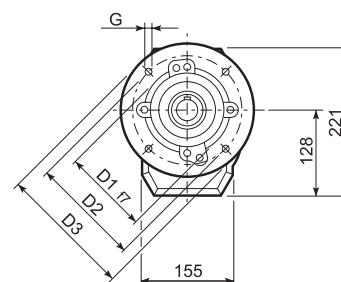
| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | kg |
|----------|------|-------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| C 41 2/3 | P63 | 235.5 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 336.5 | 27 |
| C 41 2/3 | P71 | 235.5 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 336.5 | 28 |
| C 41 2/3 | P80 | 251.5 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 356 | 29 |
| C 41 2/3 | P90 | 251.5 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 356 | 29 |
| C 41 2/3 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 366 | 33 |
| C 41 2/3 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 366 | 33 |
| C 41 2/3 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 402.5 | 35 |
| C 41 4 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 395 | 30 |
| C 41 4 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 395 | 31 |
| C 41 4 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 414.5 | 32 |
| C 41 4 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 414.5 | 32 |
| C 41 4 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 424.5 | 36 |
| C 41 4 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 424.5 | 36 |



C 41...SK / SC

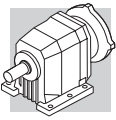


| C 41 _U | | | | | | |
|---------|-----|-----|-----|----|-----|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FB | 180 | 215 | 250 | 14 | 4 | 13 |



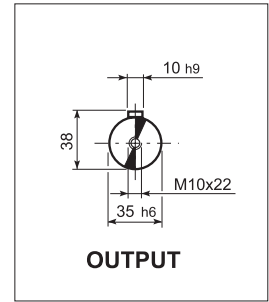
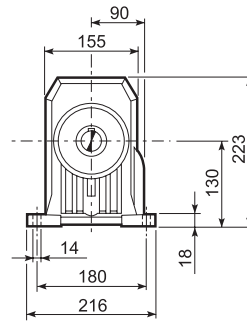
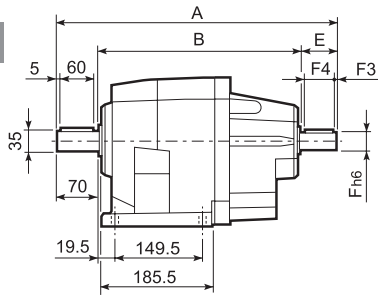
| Icon | Icon | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|-----------|--------|-----|----|------|----|-----|-----|-----|--------|-----|-------|-----|----------|
| | | | | | | | | | | | 2/3x | 4x | |
| C41 4 | SK60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | — | 370 | 31 |
| C41 4 | SK60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | — | 377 | 32 |
| C41 4 | SK80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | — | 377 | 32 |
| C41 2/3 | SK80B | 120 | 14 | 16.3 | 5 | 96 | 100 | 80 | M6x12 | 4 | 356.5 | — | 29/29 |
| C41 2/3/4 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 356.5 | 418 | 29/29/32 |
| C41 2/3/4 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 356.5 | 418 | 29/29/32 |
| C41 2/3/4 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 356.5 | 418 | 29/29/33 |
| C41 2/3/4 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 356.5 | 418 | 29/29/36 |
| C41 2/3/4 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 356.5 | 418 | 29/29/36 |
| C41 2/3/4 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 356.5 | 418 | 29/29/36 |
| C41 2/3 | SK130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 356.5 | — | 31/31 |
| C41 2/3 | SK130B | 189 | 32 | 35.3 | 10 | 160 | 165 | 130 | M10x20 | 5 | 403 | — | 33/33 |
| C41 2/3 | SK180A | 240 | 32 | 35.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 403 | — | 33/33 |
| C41 2/3 | SK180B | 240 | 38 | 41.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 403 | — | 38/38 |

| Icon | Icon | Icon | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|-----------|--------|------|-------|-----|------|------|-------|----|-----|-----|-----|--------|---|------|-------|----------|
| | | | | | | | | | | | | | | 2/3x | 4x | |
| C41 4 | SC60A | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | — | 397 | 32 |
| C41 4 | SC60B | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | — | 397 | 33 |
| C41 4 | SC80A | M6 | 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | — | 397 | 33 |
| C41 2/3 | SC80B | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 14 | 96 | 100 | 80 | M6x12 | 4 | 380 | — | 30/30 |
| C41 2/3/4 | SC80C | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 380 | 441.5 | 30/30/33 |
| C41 2/3/4 | SC95A | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 380 | 441.5 | 30/30/34 |
| C41 2/3/4 | SC95B | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 380 | 441.5 | 30/30/34 |
| C41 2/3/4 | SC95C | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 380 | 441.5 | 30/30/35 |
| C41 2/3/4 | SC110A | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 380 | 441.5 | 31/31/39 |
| C41 2/3/4 | SC110B | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 380 | 441.5 | 31/31/39 |
| C41 2/3 | SC130A | M6 | 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 380 | — | 32/32 |
| C41 2/3 | SC130B | M8 | 36 Nm | 189 | 20 | 17 | 17.75 | 32 | 160 | 165 | 130 | M10x20 | 5 | 426 | — | 36/36 |
| C41 2/3 | SC180A | M8 | 36 Nm | 240 | 20 | 17.5 | 17.75 | 32 | 192 | 215 | 180 | M12x24 | 5 | 430 | — | 36/36 |
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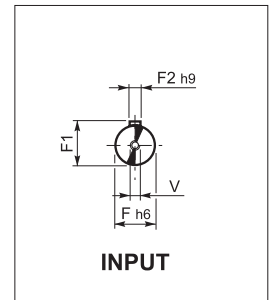
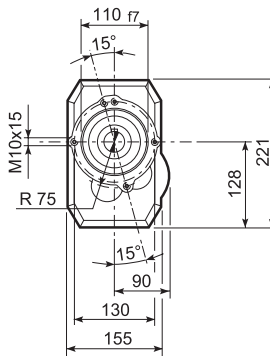
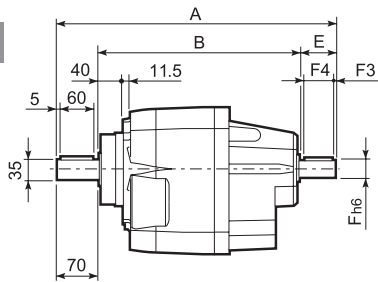


C 41...HS

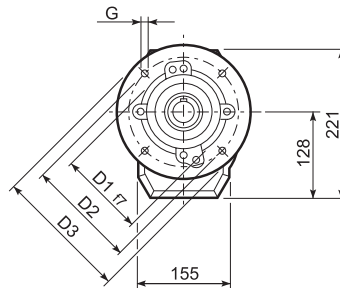
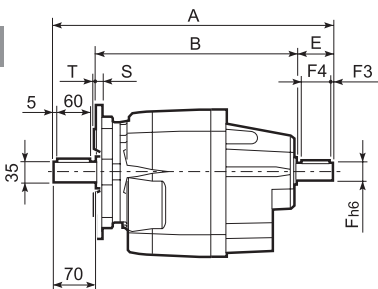
P



U



UF

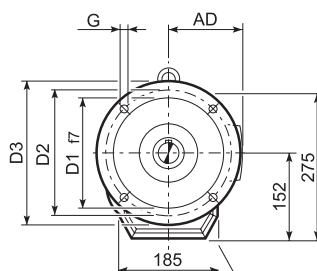
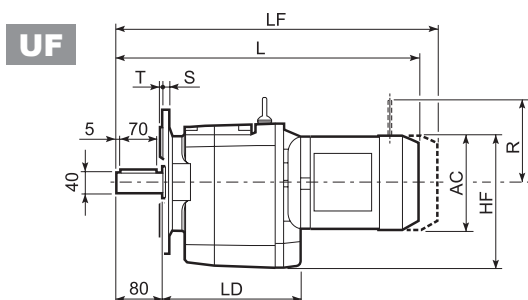
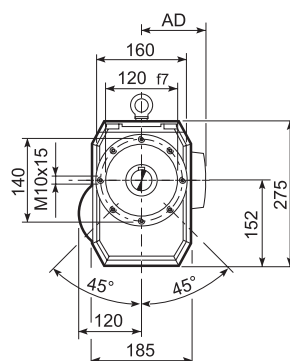
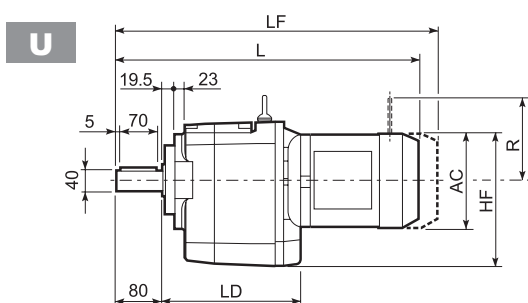
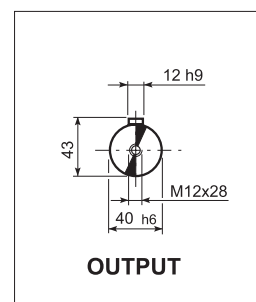
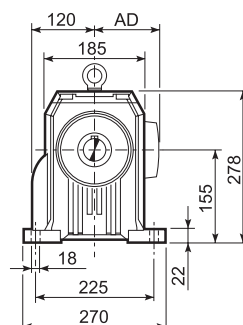
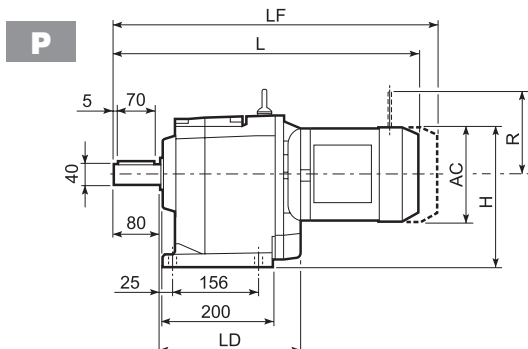


| | | C 41 U | | | | | |
|-----------|--|---------------|-----|-----|----|-----|----|
| | | D1 | D2 | D3 | G | T | S |
| FA | | 130 | 165 | 200 | 11 | 3.5 | 11 |
| FB | | 180 | 215 | 250 | 14 | 4 | 13 |

| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg |
|---------------|-----------|-------|-------|----|----|------|----|-----|----|-------|----|
| C 41 2 | HS | 425.5 | 305.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 30 |
| C 41 3 | | 425.5 | 305.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 30 |
| C 41 4 | | 448 | 338 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 33 |

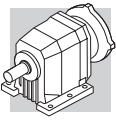


C 51...M



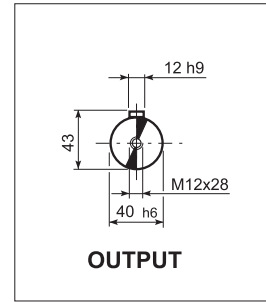
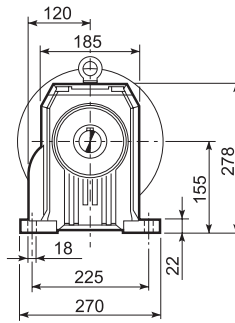
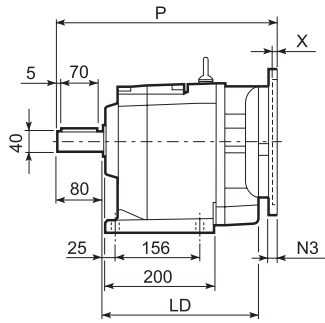
| C 51_U | | | | | | |
|--------|-----|-----|-----|----|---|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 180 | 215 | 250 | 14 | 4 | 13 |
| FB | 230 | 265 | 300 | 14 | 4 | 16 |

| | | | AC | H | HF | L | LD | AD | Kg | M...FD M...FA | | M...FD | | M...FA | |
|----------|----|------|-----|-------|-------|-------|-------|-----|-----|------------------|-----|--------|-----|--------|-----|
| | | | | | | | | | | LF | Kg | R | AD | R | AD |
| C 51 2/3 | S1 | M1 | 138 | 224 | 221 | 517.5 | — | 108 | 49 | 578.5 | 52 | 103 | 135 | 124 | 108 |
| C 51 2/3 | S2 | M2S | 156 | 233 | 230 | 545.5 | 252.5 | 119 | 53 | 616.5 | 57 | 129 | 146 | 134 | 119 |
| C 51 2/3 | S3 | M3S | 195 | 252.5 | 249.5 | 589.5 | 267.5 | 142 | 58 | 685.5 | 65 | 160 | 158 | 160 | 142 |
| C 51 2/3 | S3 | M3L | 195 | 252.5 | 249.5 | 621.5 | 267.5 | 142 | 65 | 712.5 | 72 | 160 | 158 | 160 | 142 |
| C 51 2/3 | S4 | M4 | 258 | 284 | 281 | 729.5 | — | 193 | 99 | 838.5 | 117 | 226 | 210 | 217 | 193 |
| C 51 2/3 | S4 | M4LC | 258 | 284 | 281 | 764.5 | — | 193 | 107 | 863.5 | 125 | 226 | 210 | 217 | 193 |
| C 51 2/3 | S5 | M5S | 310 | 310 | 307 | 816 | — | 245 | 127 | 956 | 157 | 266 | 245 | 247 | 245 |
| C 51 2/3 | S5 | M5L | 310 | 310 | 307 | 860 | — | 245 | 143 | 1000 | 173 | 266 | 245 | 247 | 245 |
| C 51 4 | S1 | M1 | 138 | 224 | 221 | 589 | — | 108 | 52 | 650 | 55 | 103 | 135 | 124 | 108 |
| C 51 4 | S2 | M2S | 156 | 233 | 230 | 617 | — | 119 | 56 | 688 | 60 | 129 | 146 | 134 | 119 |
| C 51 4 | S3 | M3S | 195 | 252.5 | 249.5 | 661 | — | 142 | 61 | 757 | 68 | 160 | 158 | 160 | 142 |
| C 51 4 | S3 | M3L | 195 | 252.5 | 249.5 | 693 | — | 142 | 68 | 784 | 75 | 160 | 158 | 160 | 142 |
| C 51 4 | S4 | M4 | 258 | 284 | 281 | 801 | — | 193 | 98 | 910 | 111 | 226 | 210 | 217 | 193 |
| C 51 4 | S4 | M4LC | 258 | 284 | 281 | 836 | — | 193 | 112 | 935 | 125 | 226 | 210 | 217 | 193 |

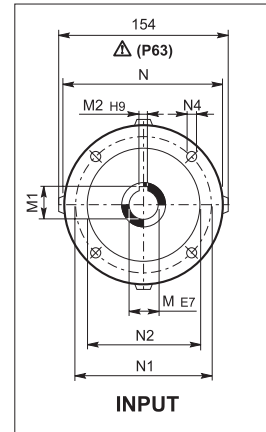
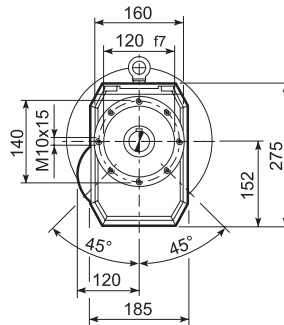
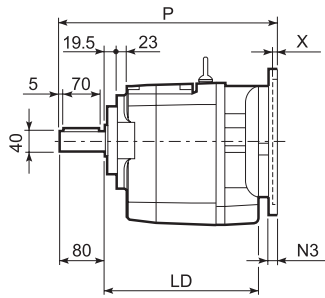


C 51...P(IEC)

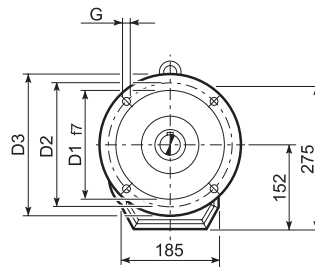
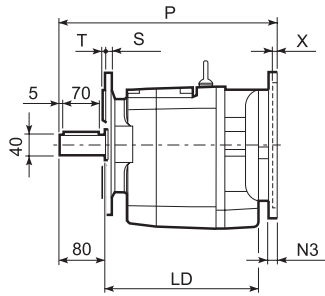
P



U



UF

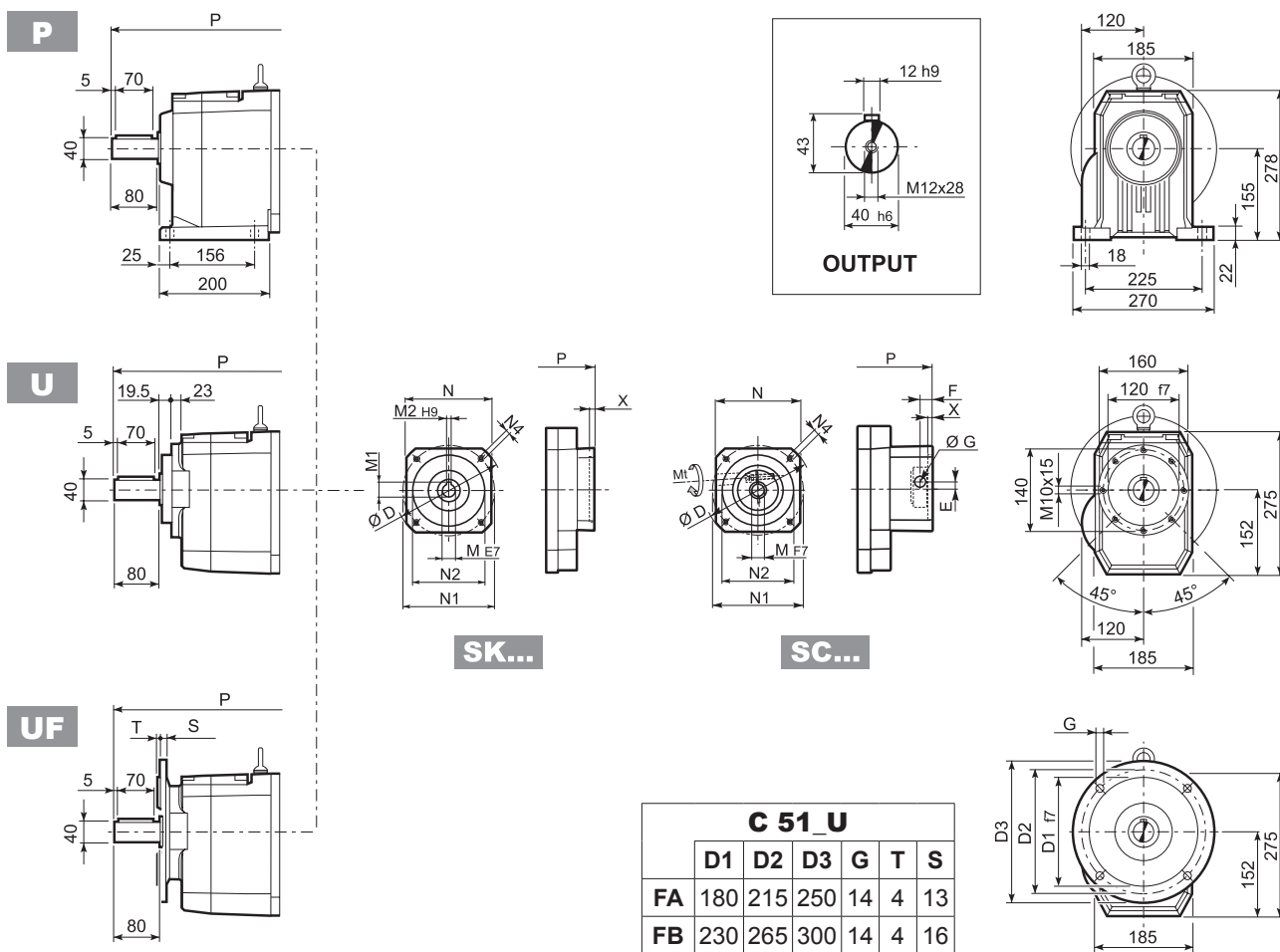


| | | C 51_U | | | | | |
|----|-----|---------------|-----|----|---|----|---|
| | | D1 | D2 | D3 | G | T | S |
| FA | 180 | 215 | 250 | 14 | 4 | 13 | |
| FB | 230 | 265 | 300 | 14 | 4 | 16 | |

| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | kg |
|-----------------|-------------|-------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| C 51 2/3 | P63 | 252.5 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 362.5 | 45 |
| C 51 2/3 | P71 | 252.5 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 362.5 | 45 |
| C 51 2/3 | P80 | 267.5 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 382 | 47 |
| C 51 2/3 | P90 | 267.5 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 382 | 47 |
| C 51 2/3 | P100 | 252.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 392 | 51 |
| C 51 2/3 | P112 | 252.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 392 | 51 |
| C 51 2/3 | P132 | 252.5 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 428.5 | 54 |
| C 51 2/3 | P160 | — | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 479 | 58 |
| C 51 2/3 | P180 | — | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 479 | 58 |
| C 51 4 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 434 | 47 |
| C 51 4 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 434 | 47 |
| C 51 4 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 453.5 | 49 |
| C 51 4 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 463.5 | 49 |
| C 51 4 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 463.5 | 53 |
| C 51 4 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 463.5 | 53 |
| C 51 4 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 500 | 62 |



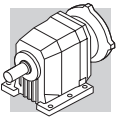
C 51...SK / SC



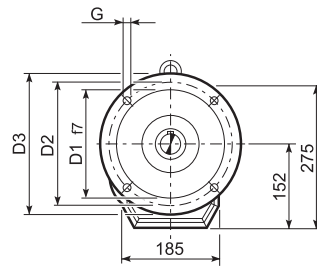
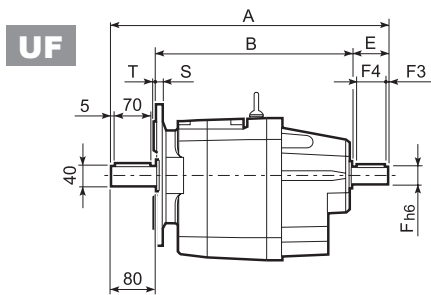
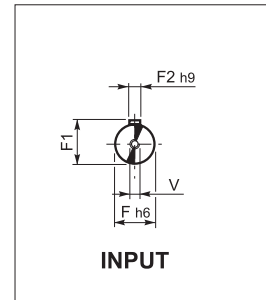
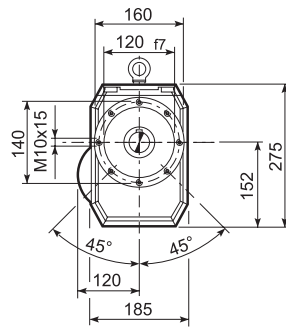
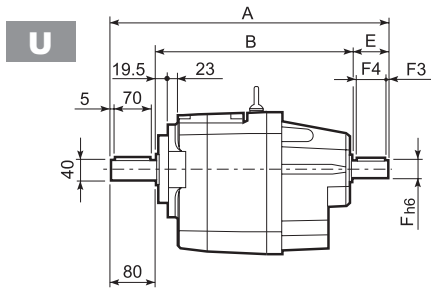
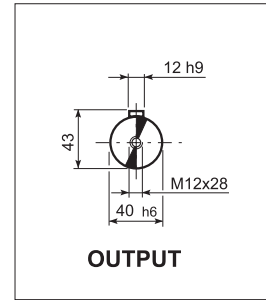
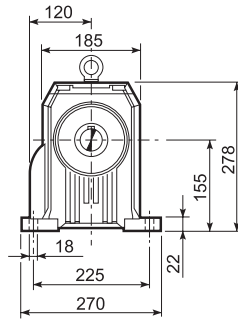
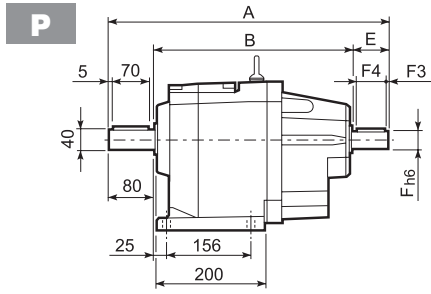
| C 51_U | | | | | | |
|--------|-----|-----|-----|----|---|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 180 | 215 | 250 | 14 | 4 | 13 |
| FB | 230 | 265 | 300 | 14 | 4 | 16 |

| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|------------|--------|-----|----|------|----|-----|-----|-----|--------|---|-------|-------|----------|
| | | | | | | | | | | | 2/3x | 4x | |
| | | | | | | | | | | | | | |
| C 51 2/3 | SK80B | 120 | 14 | 16.3 | 5 | 96 | 100 | 80 | M6x12 | 4 | 382 | — | 46/46 |
| C 51 2/3/4 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 382 | 453.5 | 47/47/49 |
| C 51 2/3/4 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 382 | 453.5 | 46/46/48 |
| C 51 2/3/4 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 382 | 453.5 | 47/47/49 |
| C 51 2/3/4 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 382 | 453.5 | 47/47/49 |
| C 51 2/3/4 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 382 | 453.5 | 47/47/51 |
| C 51 2/3/4 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 382 | 453.5 | 47/47/51 |
| C 51 2/3/4 | SK130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 382 | 453.5 | 49/49/52 |
| C 51 2/3 | SK130B | 189 | 32 | 35.3 | 10 | 160 | 165 | 130 | M10x20 | 5 | 428.5 | — | 55/55 |
| C 51 2/3 | SK180A | 240 | 32 | 35.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 428.5 | — | 55/55 |
| C 51 2/3 | SK180B | 240 | 38 | 41.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 428.5 | — | 55/55 |

| | | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|------------|--------|----|-------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|-----|----------|
| | | | | | | | | | | | | | | 2/3x | 4x | |
| | | | | | | | | | | | | | | | | |
| C 51 2/3 | SC80B | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 14 | 96 | 100 | 80 | M6x12 | 4 | 405.5 | — | 47/47 |
| C 51 2/3/4 | SC80C | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 405.5 | 477 | 48/48/50 |
| C 51 2/3/4 | SC95A | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 405.5 | 477 | 47/47/49 |
| C 51 2/3/4 | SC95B | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 405.5 | 477 | 48/48/50 |
| C 51 2/3/4 | SC95C | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 405.5 | 477 | 48/48/50 |
| C 51 2/3/4 | SC110A | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 405.5 | 477 | 49/49/52 |
| C 51 2/3/4 | SC110B | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 405.5 | 477 | 49/49/52 |
| C 51 2/3/4 | SC130A | M6 | 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 405.5 | 477 | 50/50/53 |
| C 51 2/3 | SC130B | M8 | 36 Nm | 189 | 20 | 17 | 17.75 | 32 | 160 | 165 | 130 | M10x20 | 5 | 451.5 | — | 54/54 |
| C 51 2/3 | SC180A | M8 | 36 Nm | 240 | 20 | 17.5 | 17.75 | 32 | 192 | 215 | 180 | M12x24 | 5 | 455.5 | — | 54/54 |
| C 51 2/3 | SC180B | M8 | 36 Nm | 240 | 20 | 17.5 | 17.75 | 38 | 192 | 215 | 180 | M12x24 | 5 | 455.5 | — | 54/54 |



C 51...HS



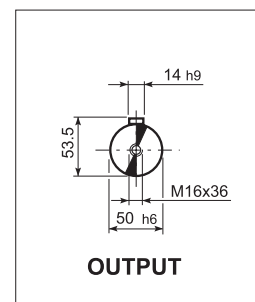
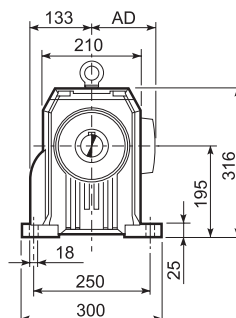
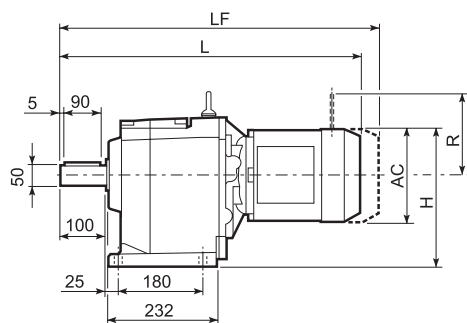
| C 51_U | | | | | | |
|--------|-----|-----|-----|----|---|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 180 | 215 | 250 | 14 | 4 | 13 |
| FB | 230 | 265 | 300 | 14 | 4 | 16 |

| | | A | B | E | F | F1 | F2 | F3 | F4 | V | kg |
|--------|----|-------|-----|----|----|------|----|-----|----|-------|----|
| C 51 2 | HS | 451.5 | 322 | 50 | 24 | 24 | 8 | 2.5 | 45 | M8x19 | 45 |
| C 51 3 | | 451.5 | 322 | 50 | 24 | 24 | 8 | 2.5 | 45 | M8x19 | 45 |
| C 51 4 | | 484 | 364 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 48 |

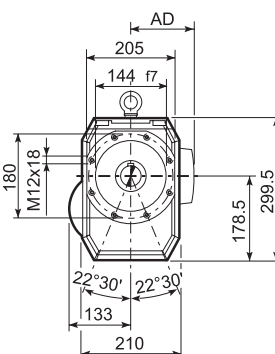
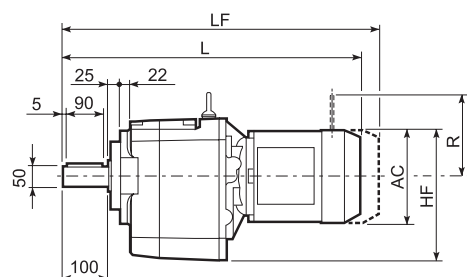


C 61...M

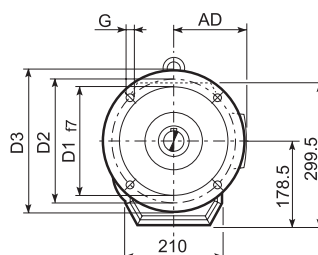
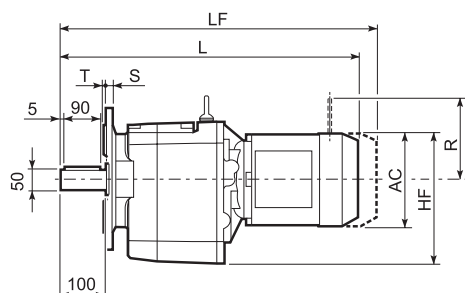
P



U



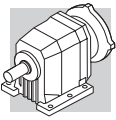
UF



C 61_U

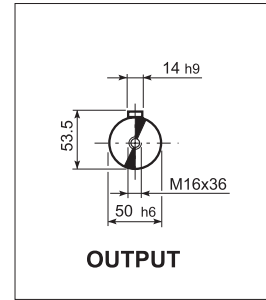
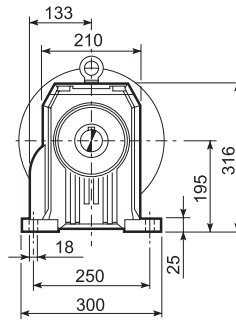
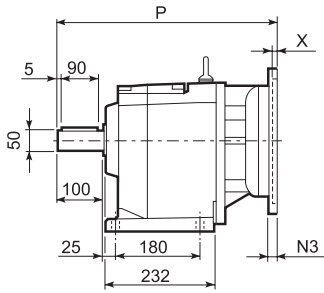
| | D1 | D2 | D3 | G | T | S |
|----|-----|-----|-----|----|---|----|
| FA | 230 | 265 | 300 | 14 | 4 | 16 |
| FB | 250 | 300 | 350 | 18 | 5 | 18 |

| | | | AC | H | HF | L | AD | Kg | M...FD | Kg | M...FD | | M...FA | |
|----------|----|------|-----|-------|-------|-------|-----|-----|--------|-----|--------|-----|--------|-----|
| | | | | | | | | | M...FA | | R | AD | R | AD |
| C 61 2/3 | S2 | M2S | 156 | 273 | 256.5 | 598.5 | 119 | 61 | 669.5 | 65 | 129 | 146 | 134 | 119 |
| C 61 2/3 | S3 | M3S | 195 | 292.5 | 276 | 642.5 | 142 | 66 | 738.5 | 74 | 160 | 158 | 160 | 142 |
| C 61 2/3 | S3 | M3L | 195 | 292.5 | 276 | 674.5 | 142 | 74 | 765.5 | 81 | 160 | 158 | 160 | 142 |
| C 61 2/3 | S4 | M4 | 258 | 324 | 307.5 | 782.5 | 193 | 108 | 891.5 | 126 | 226 | 210 | 217 | 193 |
| C 61 2/3 | S4 | M4LC | 258 | 324 | 307.5 | 817.5 | 193 | 116 | 916.5 | 134 | 226 | 210 | 217 | 193 |
| C 61 2/3 | S5 | M5S | 310 | 350 | 333.5 | 869 | 245 | 136 | 1009 | 166 | 266 | 245 | 247 | 245 |
| C 61 2/3 | S5 | M5L | 310 | 350 | 333.5 | 913 | 245 | 152 | 1053 | 182 | 266 | 245 | 247 | 245 |
| C 61 4 | S1 | M1 | 138 | 264 | 247.5 | 641 | 108 | 71 | 702 | 74 | 103 | 135 | 124 | 108 |
| C 61 4 | S2 | M2S | 156 | 273 | 256.5 | 669 | 119 | 75 | 740 | 78 | 129 | 146 | 134 | 119 |
| C 61 4 | S3 | M3S | 195 | 292.5 | 276 | 713 | 142 | 79 | 809 | 87 | 160 | 158 | 160 | 142 |
| C 61 4 | S3 | M3L | 195 | 292.5 | 276 | 745 | 142 | 87 | 836 | 94 | 160 | 158 | 160 | 142 |

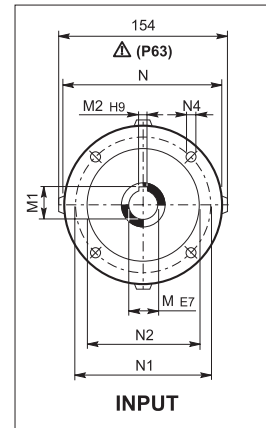
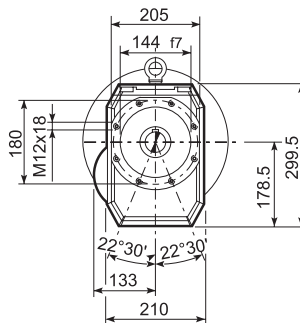
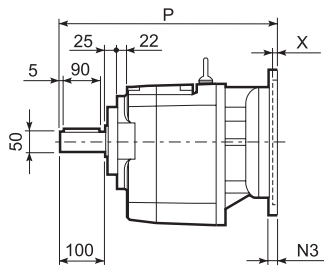


C 61...P(IEC)

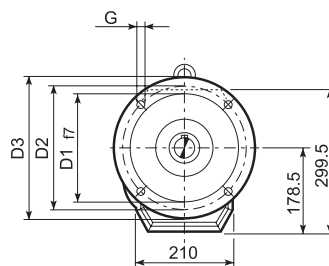
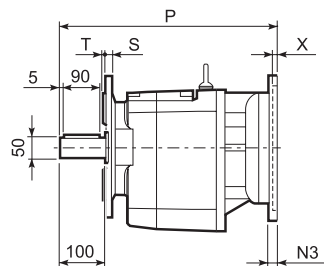
P



U



UF



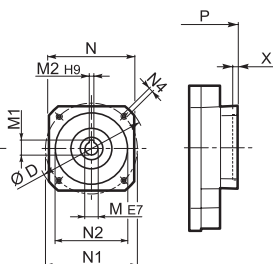
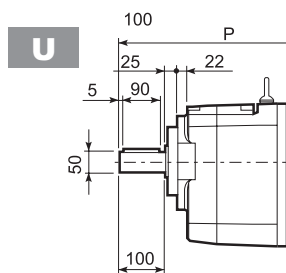
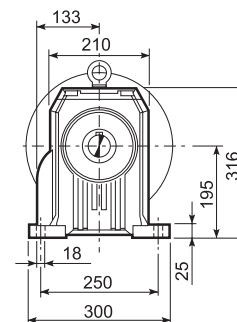
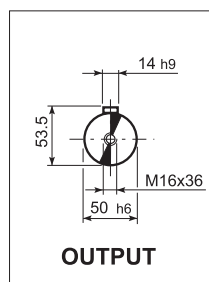
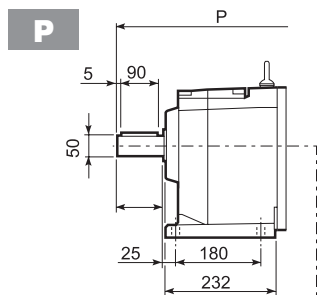
C 61_U

| | D1 | D2 | D3 | G | T | S |
|----|-----|-----|-----|----|---|----|
| FA | 230 | 265 | 300 | 14 | 4 | 16 |
| FB | 250 | 300 | 350 | 18 | 5 | 18 |

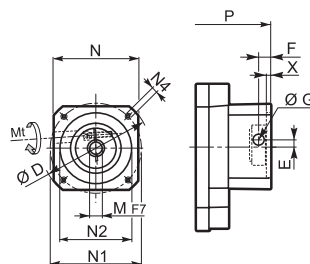
| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|----------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| C 61 2/3 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 415.5 | 55 |
| C 61 2/3 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 415.5 | 57 |
| C 61 2/3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 435 | 61 |
| C 61 2/3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 435 | 61 |
| C 61 2/3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 444 | 65 |
| C 61 2/3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 444 | 65 |
| C 61 2/3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 481.5 | 68 |
| C 61 2/3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 532 | 73 |
| C 61 2/3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 532 | 73 |
| C 61 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 486 | 61 |
| C 61 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 489 | 63 |
| C 61 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 505.5 | 67 |
| C 61 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 505.5 | 67 |
| C 61 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 515.5 | 71 |
| C 61 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 515.5 | 71 |



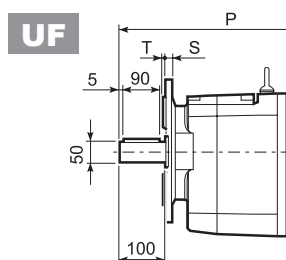
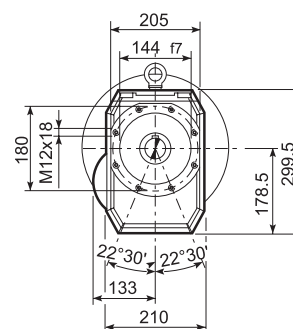
C 61...SK / SC



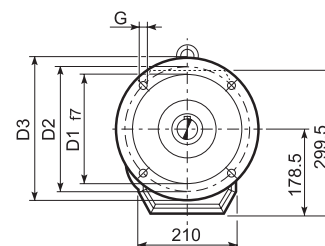
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SC...

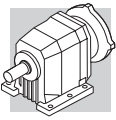


| C 61_U | | | | | | |
|--------|-----|-----|-----|----|---|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 230 | 265 | 300 | 14 | 4 | 16 |
| FB | 250 | 300 | 350 | 18 | 5 | 18 |



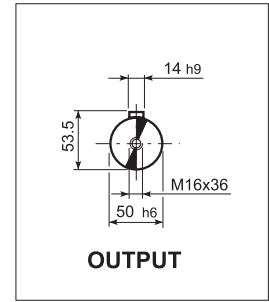
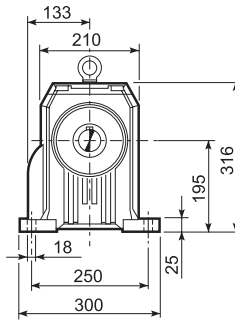
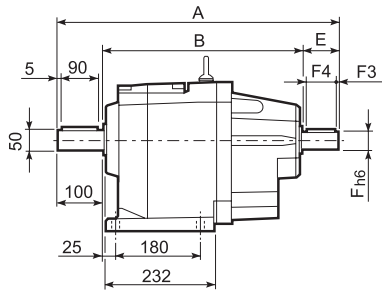
| Motor Type | SK | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|------------|--------|-----|----|------|----|-----|-----|-----|--------|---|-------|-------|----------|
| | | | | | | | | | | | 2/3x | 4x | |
| C 61 4 | SK80B | 120 | 14 | 16.3 | 5 | 96 | 100 | 80 | M6x12 | 4 | — | 505.5 | 62 |
| C 61 2/3/4 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 435 | 505.5 | 63/63/69 |
| C 61 2/3/4 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 435 | 505.5 | 60/60/67 |
| C 61 2/3/4 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 435 | 505.5 | 63/63/69 |
| C 61 2/3/4 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 435 | 505.5 | 63/63/69 |
| C 61 2/3/4 | SK110A | 140 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 435 | 505.5 | 63/63/69 |
| C 61 2/3/4 | SK110B | 140 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 435 | 505.5 | 63/63/69 |
| C 61 2/3/4 | SK130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 435 | 505.5 | 67/67/80 |
| C 61 2/3 | SK130B | 189 | 32 | 35.3 | 10 | 160 | 165 | 130 | M10x20 | 5 | 481.5 | — | 72/72 |
| C 61 2/3 | SK180A | 240 | 32 | 35.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 481.5 | — | 72/72 |
| C 61 2/3 | SK180B | 240 | 38 | 41.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 481.5 | — | 66/66 |

| Motor Type | SK | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|------------|--------|----------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|-----|----------|
| | | | | | | | | | | | | | 2/3x | 4x | |
| C 61 4 | SC80B | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 14 | 96 | 100 | 80 | M6x12 | 4 | — | 529 | 63 |
| C 61 2/3/4 | SC80C | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 458.5 | 529 | 64/64/70 |
| C 61 2/3/4 | SC95A | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 458.5 | 529 | 61/61/68 |
| C 61 2/3/4 | SC95B | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 458.5 | 529 | 64/64/70 |
| C 61 2/3/4 | SC95C | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 458.5 | 529 | 64/64/70 |
| C 61 2/3/4 | SC110A | M6 15 Nm | 140 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 458.5 | 529 | 65/65/70 |
| C 61 2/3/4 | SC110B | M6 15 Nm | 140 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 458.5 | 529 | 65/65/70 |
| C 61 2/3/4 | SC130A | M6 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 458.5 | 529 | 66/66/81 |
| C 61 2/3 | SC130B | M8 36 Nm | 189 | 20 | 17 | 17.75 | 32 | 160 | 165 | 130 | M10x20 | 5 | 504.5 | — | 75/75 |
| C 61 2/3 | SC180A | M8 36 Nm | 240 | 20 | 17.5 | 17.75 | 32 | 192 | 215 | 180 | M12x24 | 5 | 508.5 | — | 75/75 |
| C 61 2/3 | SC180B | M8 36 Nm | 240 | 20 | 17.5 | 17.75 | 38 | 192 | 215 | 180 | M12x24 | 5 | 508.5 | — | 69/69 |

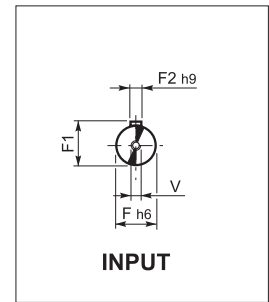
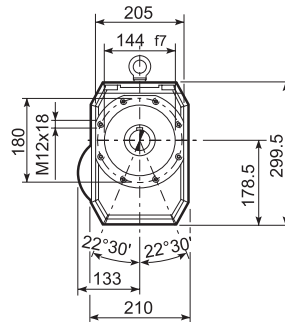
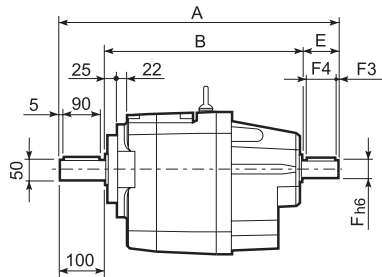


C 61...HS

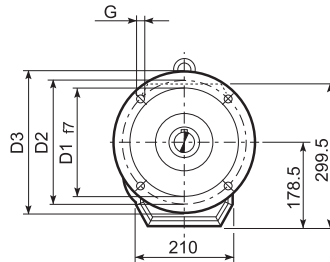
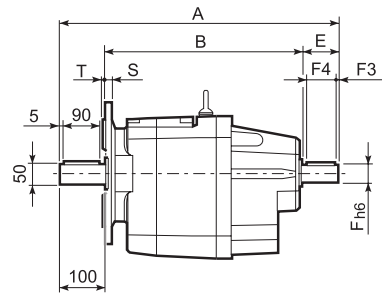
P



U



UF



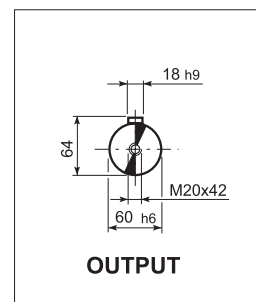
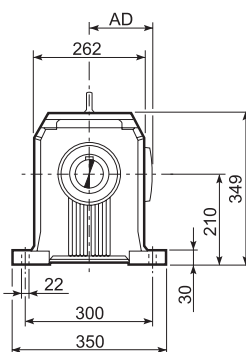
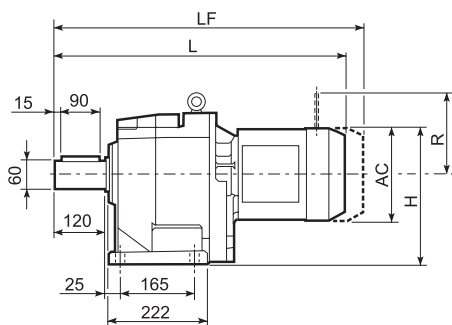
| C 61_U | | | | | | |
|--------|-----|-----|-----|----|---|----|
| | D1 | D2 | D3 | G | T | S |
| FA | 230 | 265 | 300 | 14 | 4 | 16 |
| FB | 250 | 300 | 350 | 18 | 5 | 18 |

| | | A | B | E | F | F1 | F2 | F3 | F4 | V | kg |
|--------|----|-----|-----|----|----|----|----|-----|----|--------|----|
| C 61 2 | HS | 532 | 372 | 60 | 28 | 31 | 8 | 5 | 50 | M10x22 | 66 |
| C 61 3 | | 532 | 372 | 60 | 28 | 31 | 8 | 5 | 50 | M10x22 | 66 |
| C 61 4 | | 575 | 425 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 72 |

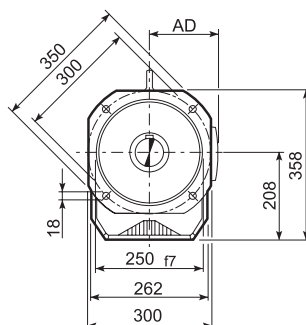
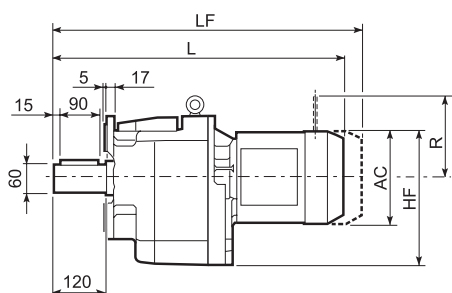


C 70...M

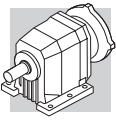
P



F

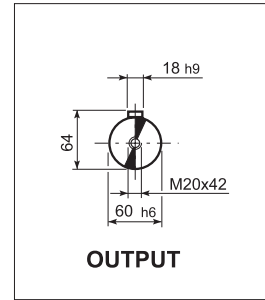
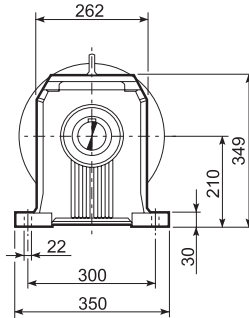
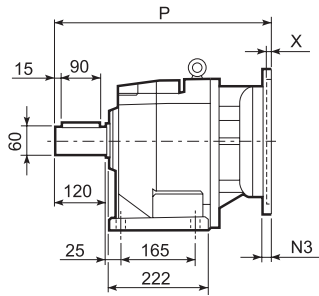


| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|--|--|--|-----|-------|-------|-------|-----|-----|--------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | HF | L | AD | | LF | | R | AD | R | AD | |
| | | | 156 | 288 | 286 | 636.5 | 119 | 88 | 707.5 | 92 | 129 | 146 | 134 | 119 | |
| | | | 195 | 307.5 | 305.5 | 680.5 | 142 | 93 | 776.5 | 101 | 160 | 158 | 160 | 142 | |
| | | | 195 | 307.5 | 305.5 | 712.5 | 142 | 101 | 803.5 | 108 | 160 | 158 | 160 | 142 | |
| | | | 258 | 339 | 337 | 820.5 | 193 | 135 | 929.5 | 153 | 226 | 210 | 217 | 193 | |
| | | | 258 | 339 | 337 | 855.5 | 193 | 143 | 954.5 | 161 | 226 | 210 | 217 | 193 | |
| | | | 310 | 365 | 363 | 907 | 245 | 163 | 1047 | 193 | 266 | 245 | 247 | 245 | |
| | | | 310 | 365 | 363 | 951 | 245 | 179 | 1091 | 209 | 266 | 245 | 247 | 245 | |
| | | | 138 | 279 | 277 | 659.5 | 108 | 88 | 720.5 | 91 | 103 | 135 | 124 | 108 | |
| | | | 156 | 288 | 286 | 687.5 | 119 | 92 | 758.5 | 96 | 129 | 146 | 134 | 119 | |
| | | | 195 | 307.5 | 305.5 | 731.5 | 142 | 97 | 827.5 | 104 | 160 | 158 | 160 | 142 | |
| | | | 195 | 307.5 | 305.5 | 763.5 | 142 | 104 | 854.5 | 111 | 160 | 158 | 160 | 142 | |
| | | | 258 | 339 | 337 | 871.5 | 193 | 138 | 980.5 | 156 | 226 | 210 | 217 | 193 | |
| | | | 258 | 339 | 337 | 906.5 | 193 | 146 | 1005.5 | 164 | 226 | 210 | 217 | 193 | |

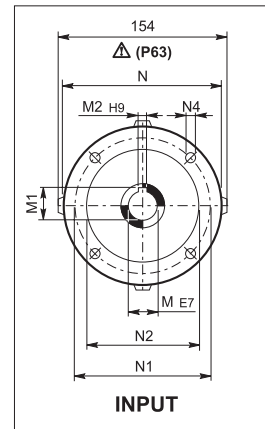
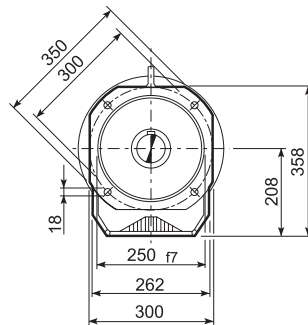
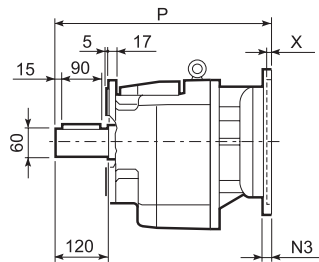


C 70...P(IEC)

P



F

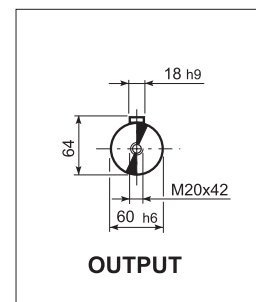
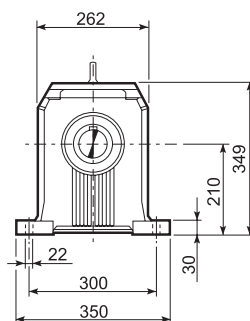
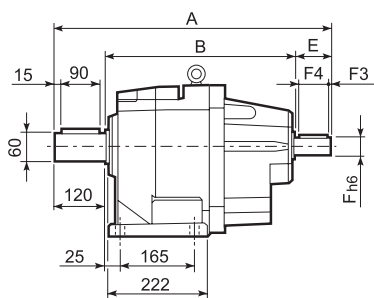


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | |
|----------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| C 70 2/3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 473 | 88 |
| C 70 2/3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 473 | 88 |
| C 70 2/3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 483 | 92 |
| C 70 2/3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 483 | 92 |
| C 70 2/3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 519.5 | 95 |
| C 70 2/3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 6 | 575 | 107 |
| C 70 2/3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 6 | 575 | 107 |
| C 70 2 | P200 | 55 | 59.3 | 16 | 400 | 350 | 300 | — | M16x25 | 7 | 600 | 129 |
| C 70 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 504.5 | 91 |
| C 70 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 504.5 | 91 |
| C 70 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 524 | 92 |
| C 70 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 524 | 92 |
| C 70 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 534 | 96 |
| C 70 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 534 | 96 |
| C 70 4 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 570.5 | 98 |

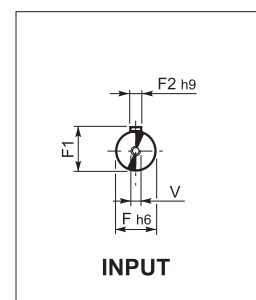
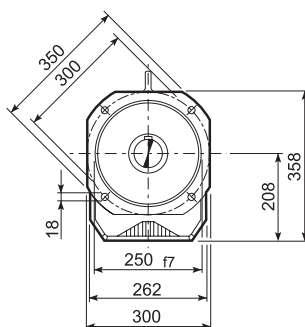
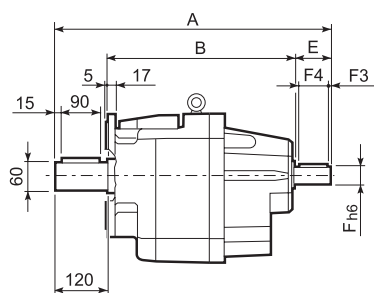


C 70...HS

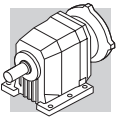
P



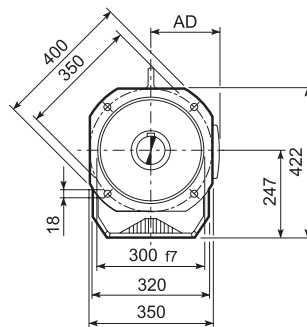
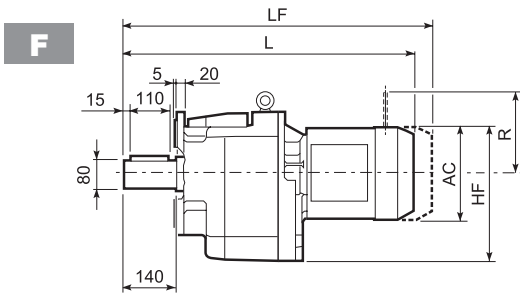
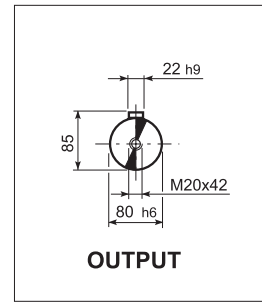
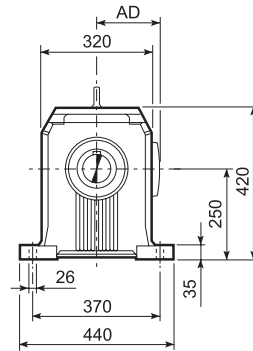
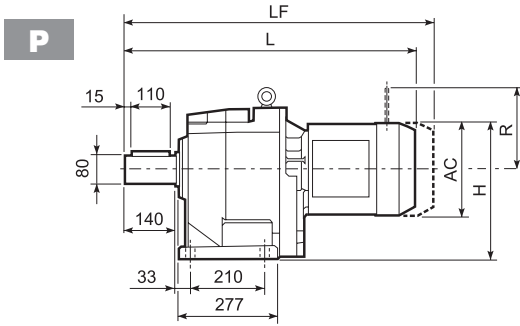
F



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | kg |
|---------------|----|-------|-------|-----|----|----|----|-----|----|--------|-----|
| C 70 2 | HS | 657.5 | 427.5 | 110 | 42 | 45 | 12 | 10 | 90 | M12x28 | 108 |
| C 70 3 | | 657.5 | 427.5 | 110 | 42 | 45 | 12 | 10 | 90 | M12x28 | 108 |
| C 70 4 | | 593.5 | 423.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 94 |



C 80...M

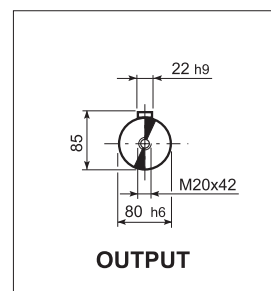
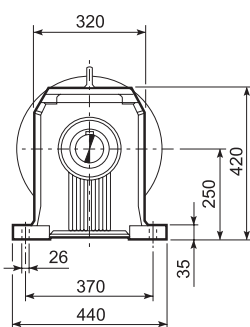
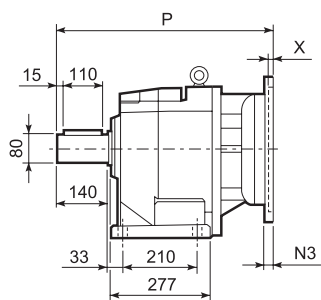


| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|-----------------|-----------|-------------|-----|-------|-------|-------|-----|-----|--------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | HF | L | AD | | LF | | R | AD | R | AD | |
| C 80 2/3 | S3 | M3S | 195 | 347.5 | 344.5 | 742.5 | 142 | 139 | 838.5 | 146 | 160 | 158 | 160 | 142 | |
| C 80 2/3 | S3 | M3L | 195 | 347.5 | 344.5 | 774.5 | 142 | 146 | 865.5 | 153 | 160 | 158 | 160 | 142 | |
| C 80 2/3 | S4 | M4 | 258 | 379 | 376 | 882.5 | 193 | 180 | 991.5 | 196 | 226 | 210 | 217 | 193 | |
| C 80 2/3 | S4 | M4LC | 258 | 379 | 376 | 917.5 | 193 | 188 | 1016.5 | 204 | 226 | 210 | 217 | 193 | |
| C 80 2/3 | S5 | M5S | 310 | 405 | 402 | 969 | 245 | 208 | 1109 | 238 | 266 | 245 | 247 | 245 | |
| C 80 2/3 | S5 | M5L | 310 | 405 | 402 | 1013 | 245 | 224 | 1153 | 254 | 266 | 245 | 247 | 245 | |
| C 80 4 | S1 | M1 | 138 | 319 | 316 | 733.5 | 108 | 133 | 794.5 | 136 | 103 | 135 | 124 | 108 | |
| C 80 4 | S2 | M2S | 156 | 328 | 325 | 761.5 | 119 | 137 | 832.5 | 141 | 129 | 146 | 134 | 119 | |
| C 80 4 | S3 | M3S | 195 | 347.5 | 344.5 | 805.5 | 142 | 142 | 901.5 | 149 | 160 | 158 | 160 | 142 | |
| C 80 4 | S3 | M3L | 195 | 347.5 | 344.5 | 837.5 | 142 | 149 | 928.5 | 156 | 160 | 158 | 160 | 142 | |
| C 80 4 | S4 | M4 | 258 | 379 | 376 | 945.5 | 193 | 183 | 1054.5 | 201 | 226 | 210 | 217 | 193 | |
| C 80 4 | S4 | M4LC | 258 | 379 | 376 | 980.5 | 193 | 191 | 1079.5 | 209 | 226 | 210 | 217 | 193 | |

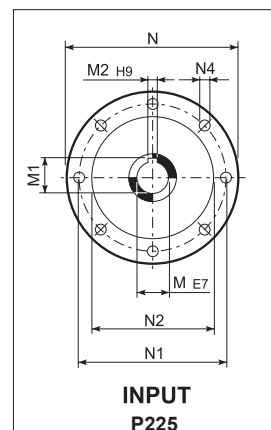
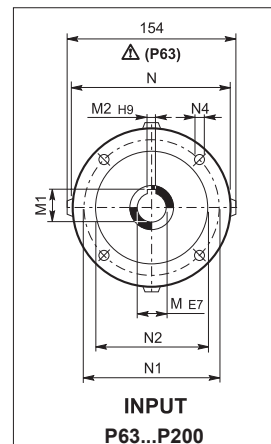
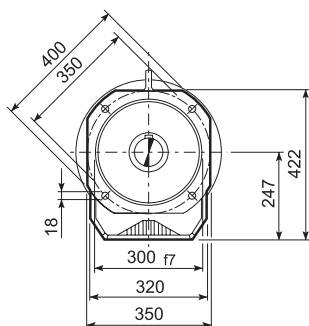
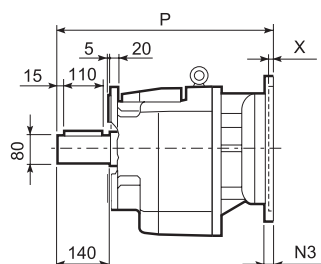


C 80...P(IEC)

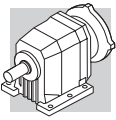
P



F

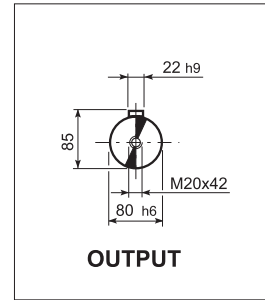
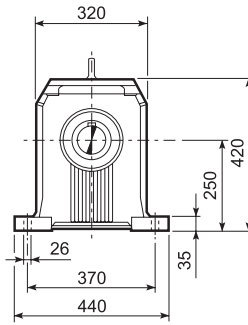
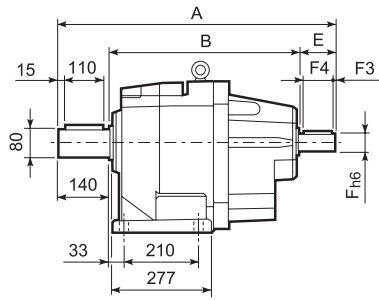


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|-----------------|-------------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| | | | | | | | | | | | | |
| C 80 2/3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 533 | 135 |
| C 80 2/3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 533 | 135 |
| C 80 2/3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 543 | 139 |
| C 80 2/3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 543 | 139 |
| C 80 2/3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 579.5 | 141 |
| C 80 2/3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 6 | 635 | 154 |
| C 80 2/3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 6 | 635 | 154 |
| C 80 2 | P200 | 55 | 59.3 | 16 | 400 | 350 | 300 | — | M16x25 | 7 | 660 | 176 |
| C 80 2 | P225 | 60 | 64.4 | 18 | 450 | 400 | 350 | 25 | 18 | 6 | 705.5 | 178 |
| C 80 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 576.5 | 138 |
| C 80 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 576.5 | 138 |
| C 80 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 596 | 140 |
| C 80 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 596 | 140 |
| C 80 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 606 | 144 |
| C 80 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 606 | 144 |
| C 80 4 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | M12x16 | 5 | 642.5 | 146 |

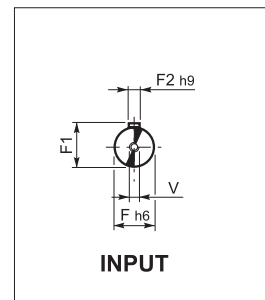
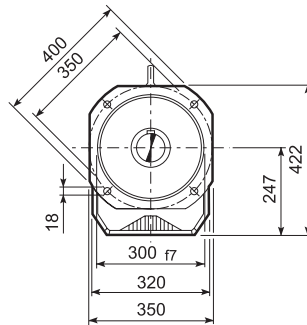
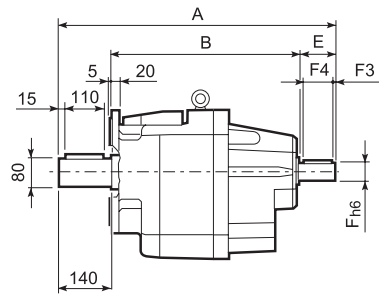


C 80...HS

P



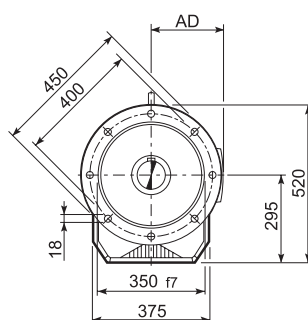
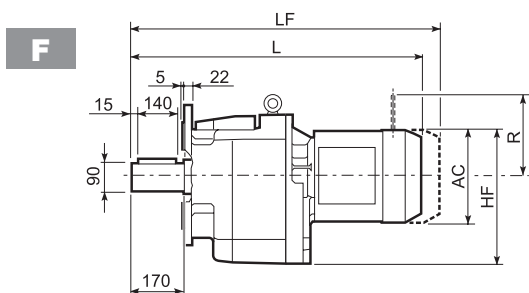
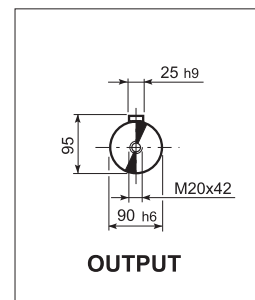
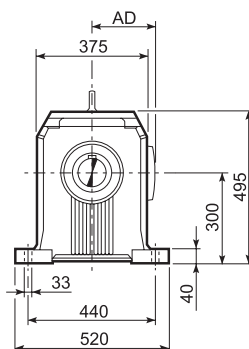
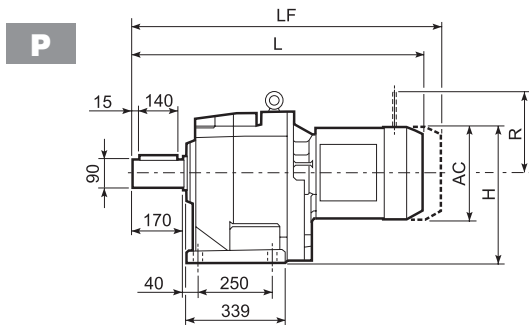
F



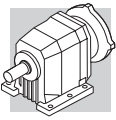
| | | A | B | E | F | F1 | F2 | F3 | F4 | V | kg |
|---------------|-----------|-------|-------|-----|----|----|----|-----|----|--------|-----|
| C 80 2 | HS | 718.5 | 468.5 | 110 | 42 | 45 | 12 | 10 | 90 | M12x28 | 154 |
| C 80 3 | | 718.5 | 468.5 | 110 | 42 | 45 | 12 | 10 | 90 | M12x28 | 154 |
| C 80 4 | | 666.5 | 476.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 141 |



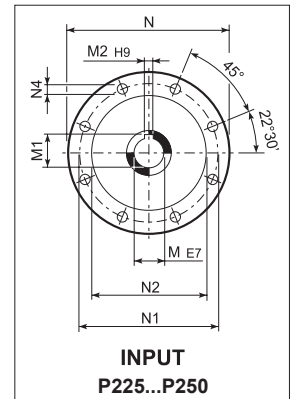
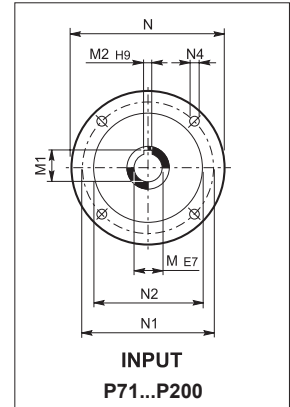
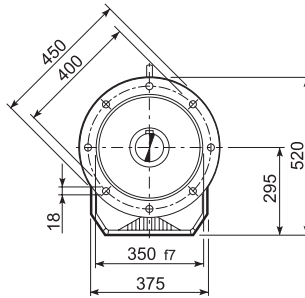
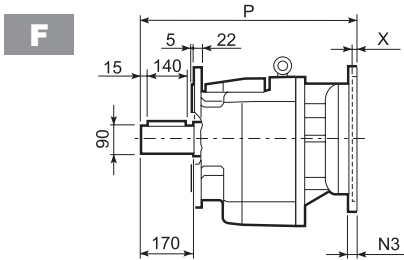
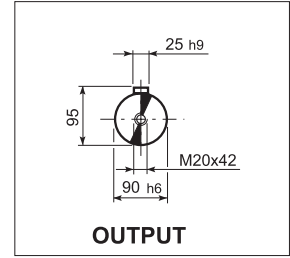
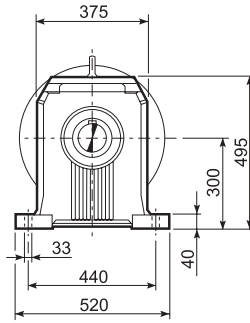
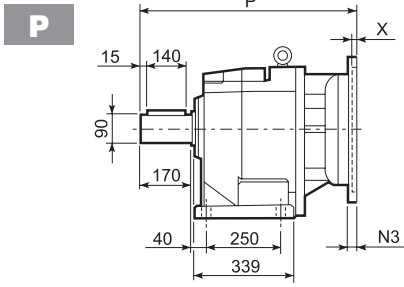
C 90...M



| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | | | |
|--|--|--|----------|----|------|-----|-------|-------|--------|------------------|-----|--------|-----|--------|-----|-----|-----|
| | | | AC | H | HF | L | AD | | LF | | R | AD | R | AD | | | |
| | | | C 90 2/3 | S3 | M3S | 195 | 397.5 | 392.5 | 852 | 142 | 228 | 948 | 236 | 160 | 158 | 160 | 142 |
| | | | C 90 2/3 | S3 | M3L | 195 | 397.5 | 392.5 | 884 | 142 | 236 | 975 | 243 | 160 | 158 | 160 | 142 |
| | | | C 90 2/3 | S4 | M4 | 258 | 429 | 424 | 992 | 193 | 270 | 1101 | 288 | 226 | 210 | 217 | 193 |
| | | | C 90 2/3 | S4 | M4LC | 258 | 429 | 424 | 1027 | 193 | 278 | 1126 | 296 | 226 | 210 | 217 | 193 |
| | | | C 90 2/3 | S5 | M5S | 310 | 455 | 450 | 1078.5 | 245 | 298 | 1218.5 | 328 | 266 | 245 | 247 | 245 |
| | | | C 90 2/3 | S5 | M5L | 310 | 455 | 450 | 1122.5 | 245 | 314 | 1262.5 | 344 | 266 | 245 | 247 | 245 |
| | | | C 90 4 | S1 | M1 | 138 | 369 | 364 | 862 | 108 | 226 | 923 | 228 | 103 | 135 | 124 | 108 |
| | | | C 90 4 | S2 | M2S | 156 | 378 | 373 | 891 | 119 | 234 | 962 | 238 | 129 | 146 | 134 | 119 |
| | | | C 90 4 | S3 | M3S | 195 | 397.5 | 392.5 | 935 | 142 | 239 | 1031 | 246 | 160 | 158 | 160 | 142 |
| | | | C 90 4 | S3 | M3L | 195 | 397.5 | 392.5 | 967 | 142 | 246 | 1058 | 253 | 160 | 158 | 160 | 142 |
| | | | C 90 4 | S4 | M4 | 258 | 429 | 424 | 1075 | 193 | 280 | 1184 | 298 | 226 | 210 | 217 | 193 |
| | | | C 90 4 | S4 | M4LC | 258 | 429 | 424 | 1126.5 | 193 | 288 | 1209 | 306 | 226 | 210 | 217 | 193 |



C 90...P(IEC)

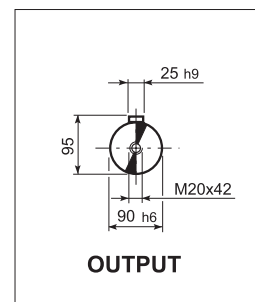
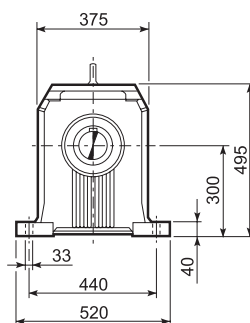
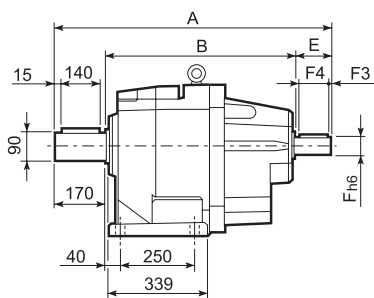


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|----------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| C 90 2/3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 644.5 | 229 |
| C 90 2/3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 644.5 | 229 |
| C 90 2/3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 654.5 | 234 |
| C 90 2/3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 654.5 | 234 |
| C 90 2/3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 691 | 236 |
| C 90 2/3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 6 | 746.5 | 251 |
| C 90 2/3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 6 | 746.5 | 251 |
| C 90 2/3 | P200 | 55 | 59.3 | 16 | 400 | 350 | 300 | — | M16x25 | 7 | 771.5 | 272 |
| C 90 2/3 | P225 | 60 | 64.4 | 18 | 450 | 400 | 350 | 30 | 18 | 6 | 817 | 273 |
| C 90 2/3 | P250 | 65 | 69.4 | 18 | 550 | 500 | 450 | 30 | 18 | 6 | 847 | 295 |
| C 90 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 707.5 | 236 |
| C 90 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 707.5 | 236 |
| C 90 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 727 | 238 |
| C 90 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 727 | 238 |
| C 90 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 737 | 242 |
| C 90 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 737 | 242 |
| C 90 4 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 773.5 | 244 |
| C 90 4 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 824 | 248 |
| C 90 4 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 824 | 248 |

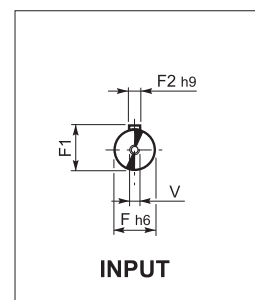
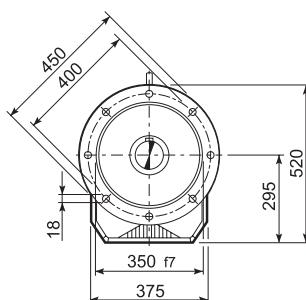
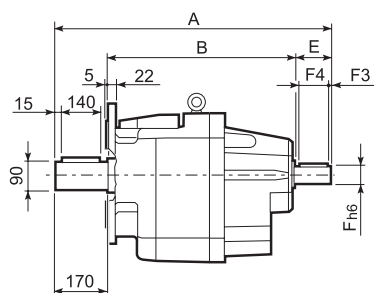


C 90...HS

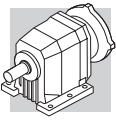
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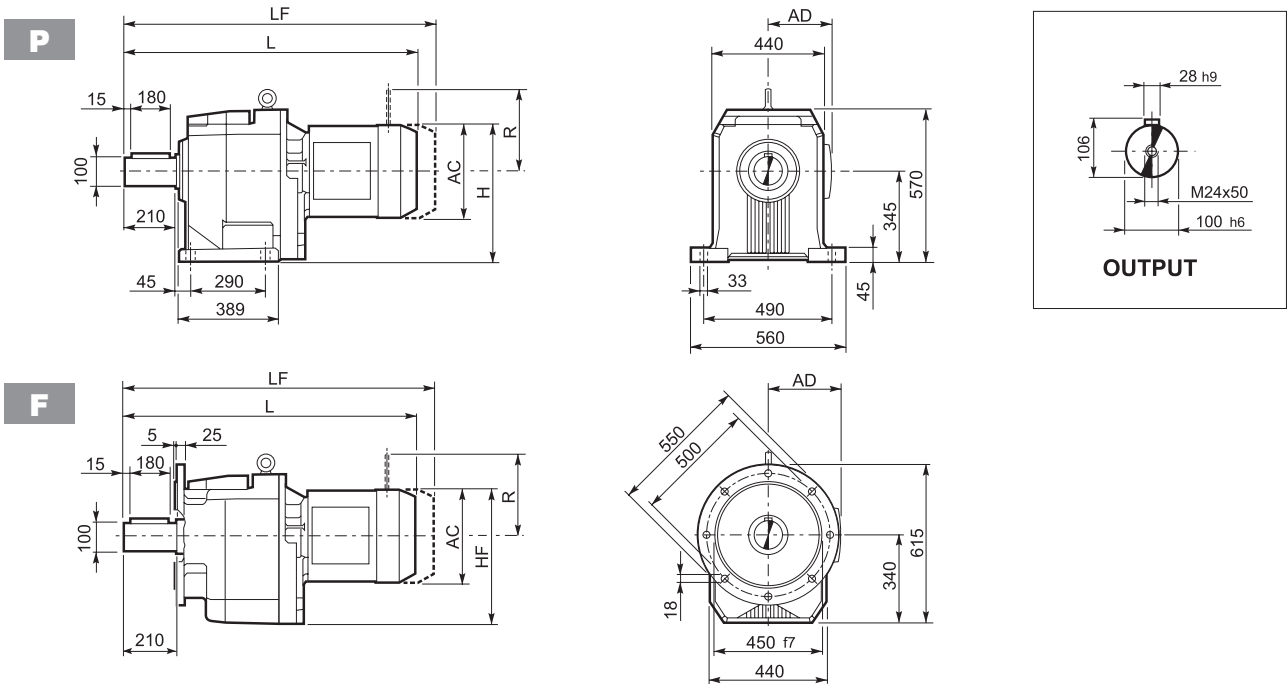
F



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | kg |
|---------------|----|-------|-------|-----|----|----|----|-----|-----|--------|-----|
| C 90 2 | HS | 930.5 | 620.5 | 140 | 60 | 64 | 18 | 10 | 120 | M16x36 | 273 |
| C 90 3 | | 930.5 | 620.5 | 140 | 60 | 64 | 18 | 10 | 120 | M16x36 | 273 |
| C 90 4 | | 797 | 577 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 240 |



C 100...M

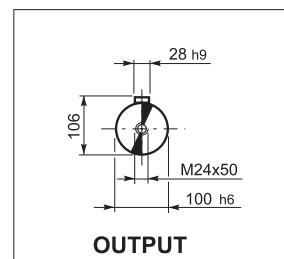
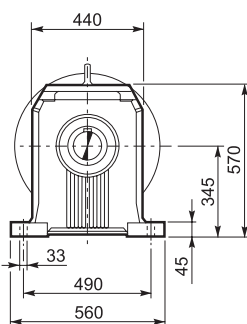
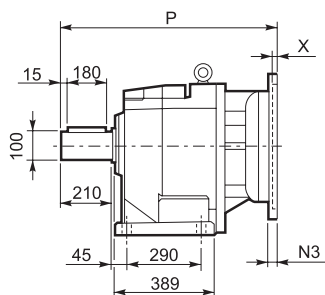


| | | | AC | H | HF | L | AD | Kg | M...FD M...FA | Kg | M...FD | | M...FA | |
|-----------|----|------|-----|-------|-------|--------|-----|-----|------------------|-----|--------|-----|--------|-----|
| | | | | | | | | | LF | | R | AD | R | AD |
| C 100 2/3 | S4 | M4 | 258 | 474 | 469 | 1087 | 193 | 392 | 1196 | 410 | 226 | 210 | 217 | 193 |
| C 100 2/3 | S4 | M4LC | 258 | 474 | 469 | 1122 | 193 | 400 | 1221 | 418 | 226 | 210 | 217 | 193 |
| C 100 2/3 | S5 | M5S | 310 | 500 | 495 | 1173.5 | 245 | 420 | 1313.5 | 450 | 266 | 245 | 247 | 245 |
| C 100 2/3 | S5 | M5L | 310 | 500 | 495 | 1217.5 | 245 | 436 | 1357.5 | 466 | 266 | 245 | 247 | 245 |
| C 100 4 | S1 | M1 | 138 | 414 | 409 | 956.5 | 108 | 346 | 1027.5 | 348 | 103 | 135 | 124 | 108 |
| C 100 4 | S2 | M2S | 156 | 423 | 418 | 985.5 | 119 | 354 | 1056.5 | 357 | 129 | 146 | 134 | 119 |
| C 100 4 | S3 | M3S | 195 | 442.5 | 437.5 | 1029.5 | 142 | 358 | 1125.5 | 366 | 160 | 158 | 160 | 142 |
| C 100 4 | S3 | M3L | 195 | 442.5 | 437.5 | 1061.5 | 142 | 366 | 1152.5 | 373 | 160 | 158 | 160 | 142 |
| C 100 4 | S4 | M4 | 258 | 474 | 469 | 1169.5 | 193 | 400 | 1278.5 | 418 | 226 | 210 | 217 | 193 |
| C 100 4 | S4 | M4LC | 258 | 474 | 469 | 1204.5 | 245 | 408 | 1303.5 | 426 | 226 | 210 | 217 | 193 |

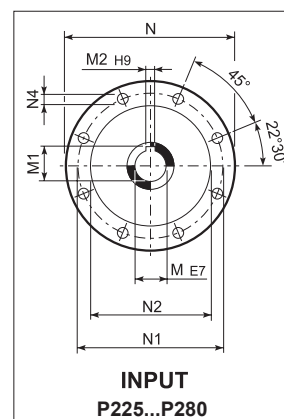
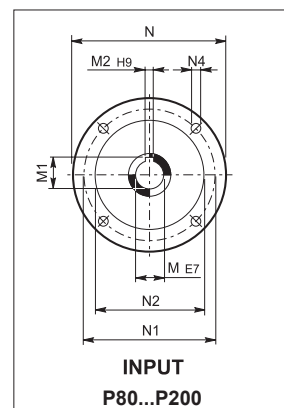
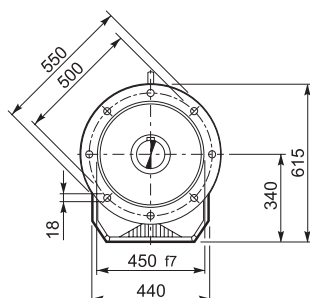
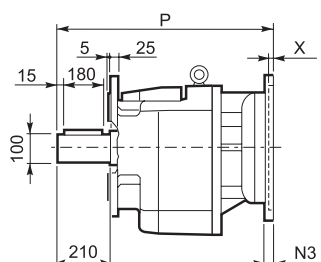


C 100...P(IEC)

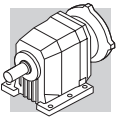
P



F

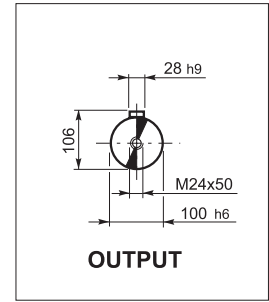
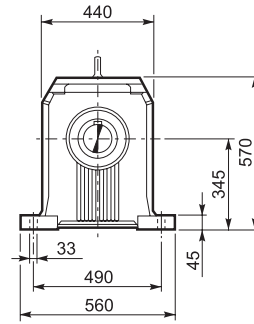
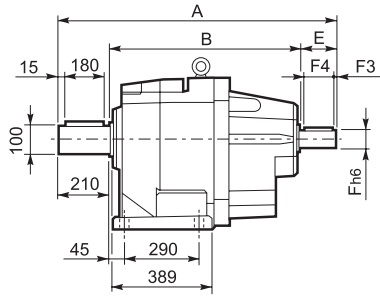


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | |
|-----------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| C 100 2/3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 749.5 | 364 |
| C 100 2/3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 749.5 | 364 |
| C 100 2/3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 786 | 367 |
| C 100 2/3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 6 | 841.5 | 382 |
| C 100 2/3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 6 | 841.5 | 382 |
| C 100 2/3 | P200 | 55 | 59.3 | 16 | 400 | 350 | 300 | — | M16x25 | 7 | 866.5 | 403 |
| C 100 2/3 | P225 | 60 | 64.4 | 18 | 450 | 400 | 350 | 30 | 18 | 7 | 912 | 403 |
| C 100 2/3 | P250 | 65 | 69.4 | 18 | 550 | 500 | 450 | 30 | 18 | 7 | 942 | 426 |
| C 100 2/3 | P280 | 75 | 79.9 | 20 | 550 | 500 | 450 | 30 | 18 | 6 | 942 | 426 |
| C 100 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 803 | 369 |
| C 100 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 803 | 369 |
| C 100 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 822.5 | 371 |
| C 100 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 822.5 | 371 |
| C 100 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 832.5 | 375 |
| C 100 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 832.5 | 375 |
| C 100 4 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 869 | 377 |
| C 100 4 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 919.5 | 381 |
| C 100 4 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 919.5 | 381 |

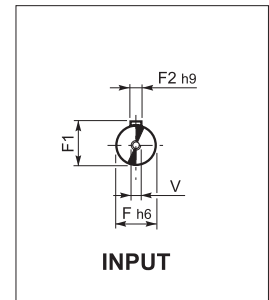
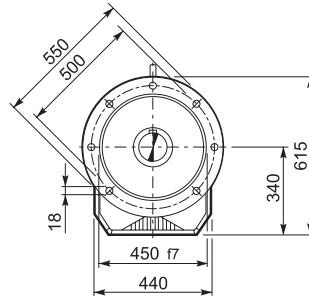
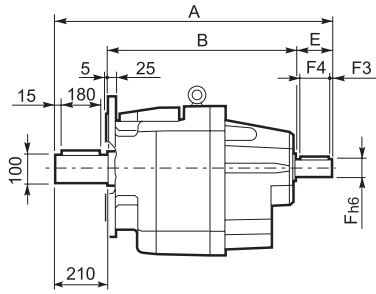


C 100...HS

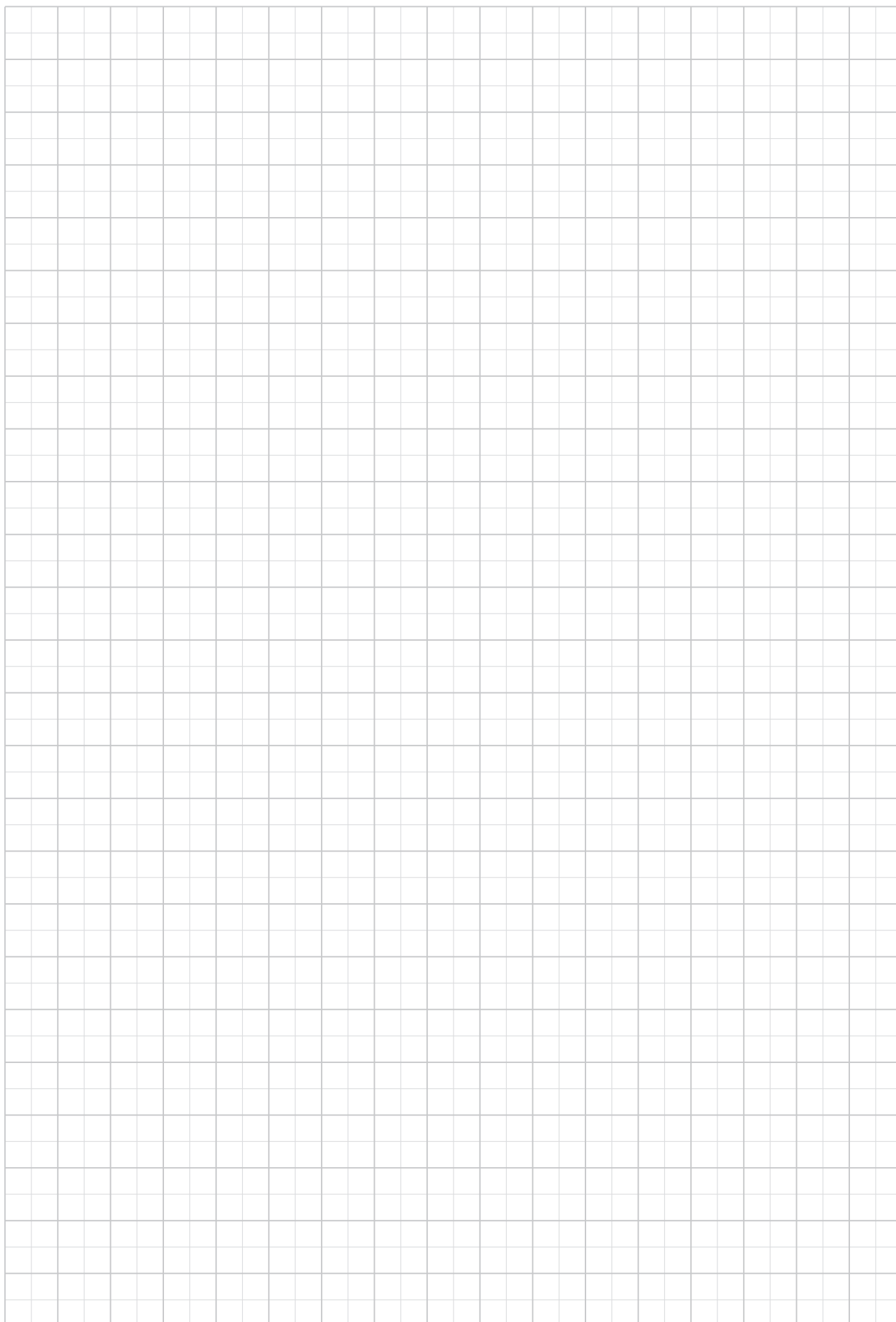
P

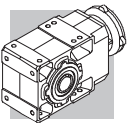


F



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | kg |
|----------------|-----------|--------|-----|-----|----|----|----|-----|-----|--------|-----|
| C 100 2 | HS | 1025.5 | 676 | 140 | 60 | 64 | 18 | 10 | 120 | M16x36 | 409 |
| C 100 3 | | 1025.5 | 676 | 140 | 60 | 64 | 18 | 10 | 120 | M16x36 | 409 |
| C 100 4 | | 892 | 632 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 372 |





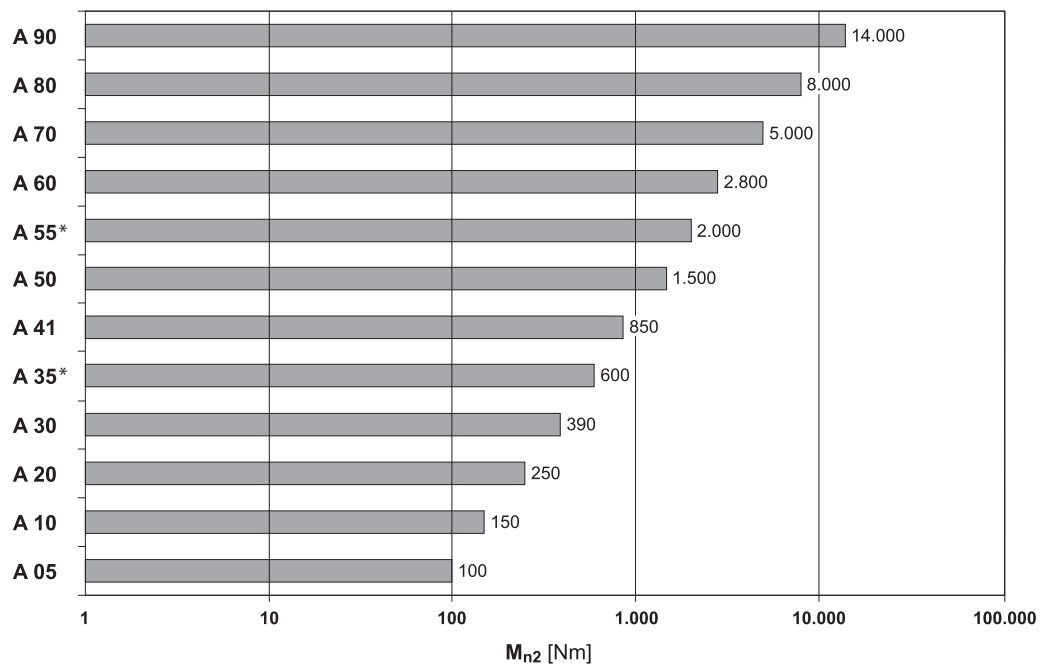
REDUCTEURS AVEC ARBRES ORTHOGONAUX SERIE A

31 CARACTERISTIQUES DE CONSTRUCTION

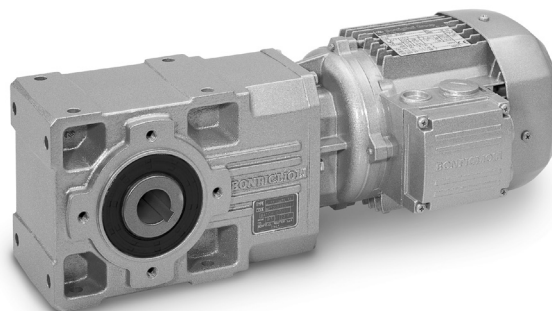
Les principales caractéristiques de construction sont :

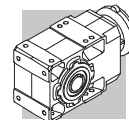
- modularité
- compacité
- montages universels
- rendements élevés
- faible niveau de bruit
- engrenages en acier allié cémentés et trempés
- carters en aluminium non peints dans les tailles 05, 10, 20, 30, carters en fonte à haute résistance peints dans les autres tailles
- arbres d'entrée et de sortie en acier à haute résistance.

(C 25)

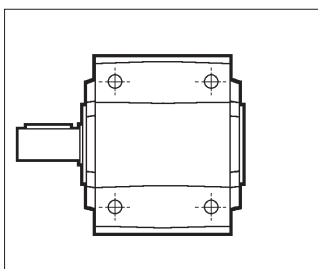


* Pour d'éventuelles limitations relatives à la forme de construction QF, voir le chapitre « FORMES DE CONSTRUCTION ».





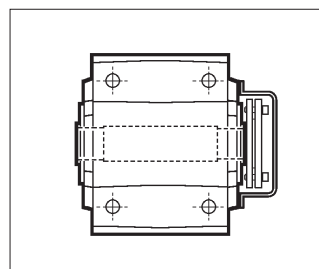
32 FORMES DE CONSTRUCTION



UR

Arbre lent sortant
d'un seul côté

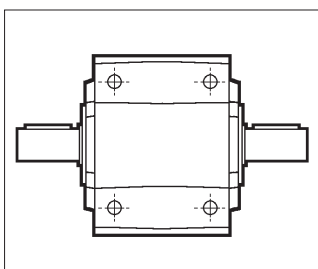
A 10 ... A 90



US

Arbre lent creux
et frette de serrage

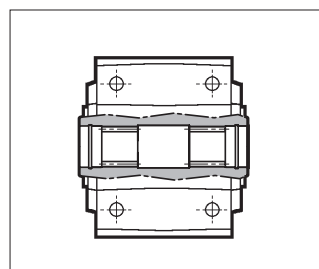
A 05 ... A 90



UD

Arbre lent sortant
des deux côtés

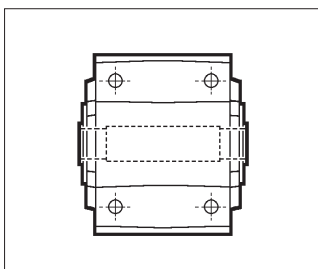
A 10 ... A 90



UV

Arbre creux
cannelé DIN 5480

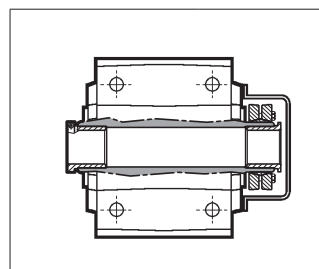
A 20 ... A 60



UH

Arbre lent creux
claveté

A 05 ... A 90



QF (Quick-fit)

Arbre creux avec
douilles d'adaptation
et frette de serrage

A 10 ... A 60

| $M_{n2 \max}$ [Nm] | |
|--------------------|------|
| A 35 QF35 | 550 |
| A 55 QF55 | 1900 |

Formes de construction avec bride rapportée

Les schémas reportés définissent les brides applicables aux formes de construction standard et leur position (①,②).

UR F1...

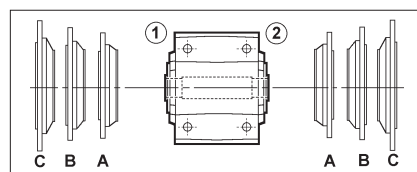
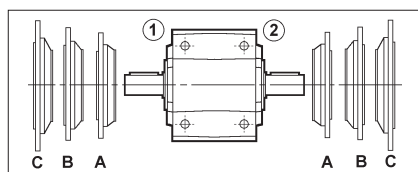
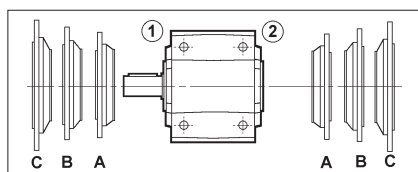
UR F2...

UD F1...

UD F2...

UH... F1...

UH... F2...



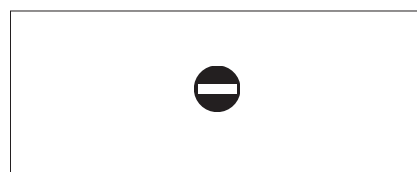
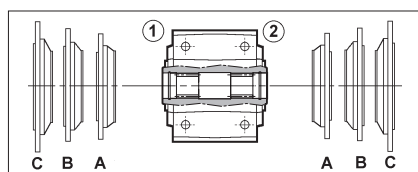
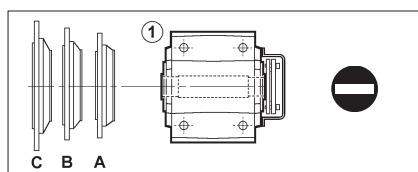
US F1...

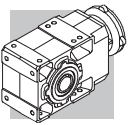
US F2...

UV F1...

UV F2...

QF...





33 DESIGNATION

REDUCTEUR

A 35 2 UH40 F1A 33.2 S3 VA

OPTIONS

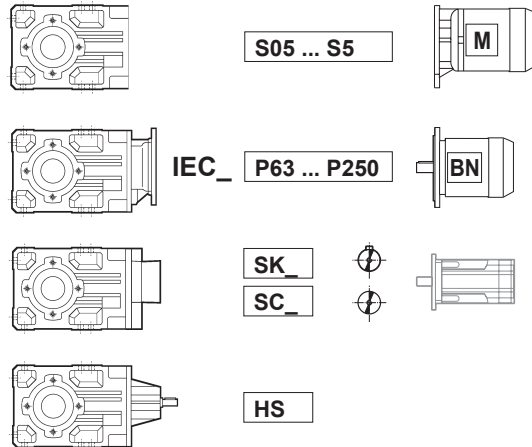
170

POSITION DE MONTAGE

B3 (Standard), **B6, B7, B8, VA, VB**

175

DESIGNATION ENTREE



RAPPORT DE REDUCTION

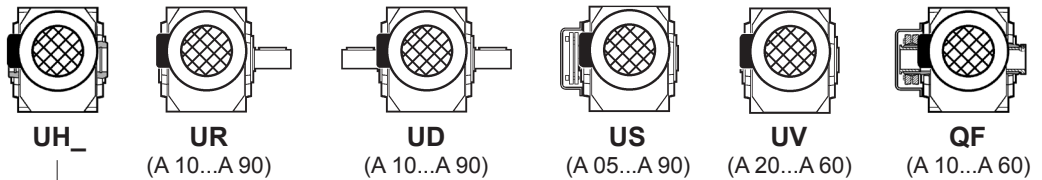
TAILLE ET POSITION BRIDE EN SORTIE
(spécifier si elle est demandée)

F = Version avec bride

1, 2 = Position bride

A, B, C = Taille bride

FORME DE CONSTRUCTION



| A 05 | A 10 | A 20 | A 30 | A 35 | A 41 | A 50 | A 55 | A 60 | A 70 | A 80 | A 90 |
|------|------|------|------|------|------|------|------|------|------|------|-------|
| UH25 | UH25 | UH30 | UH35 | UH40 | UH45 | UH50 | UH60 | UH60 | UH70 | UH80 | UH90 |
| — | UH30 | UH35 | UH40 | UH35 | UH40 | UH55 | UH50 | UH70 | UH80 | UH90 | UH100 |

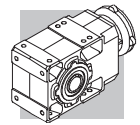
Nbre ETAGES DE REDUCTION

2 (A 05...A 60), **3** (A 20...A 90), **4** (A 50...A 90)

TAILLE REDUCTEUR

05, 10, 20, 30, 35, 41, 50, 55, 60, 70, 80, 90

TYPE: **A** = Réducteurs avec arbres orthogonaux



MOTEUR

FREIN

M 1LA 4 230/400-50 IP54 CLF W FD 7.5 R SB 220 SA

OPTIONS

173

ALIMENTATION
FREIN

521 526 531 534

TYPE REDRESSEUR
AC/DC
NB, SB, NBR, SBR

522 527

LEVIER DE DEBLOCAGE FREIN
R, RM

536

COUPLE FREIN

523 528 531 534

TYPE DE FREIN
FD, AFD (frein c.c.)
FA, BA (frein c.a.)

520 525 530 533

POSITION BOITE A BORNES
W (default), N, E, S

175

FORME DE CONSTRUCTION
— (moteur compact)
B5 (moteur IEC)

CLASSE ISOLATION
CL F standard
CL H option

514

DEGRE DE PROTECTION
IP55 standard (IP54 - moteur frein)

509

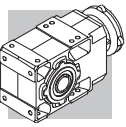
TENSION - FREQUENCE

512

Nbre POLES
2, 4, 6, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8

TAILLE MOTEUR
0B ... 5LA (moteur compact)
63A ... 280M (moteur IEC)

TYPE MOTEUR
M = 3 phasé compact
BN = 3 phasé IEC



33.1 Options réducteurs

AL, AR

Sur demande le réducteur peut être fourni avec un dispositif anti-retour. Ce dispositif permet la rotation de l'arbre lent seulement dans le sens souhaité. Le tableau suivant indique les réducteurs dans lesquels on peut appliquer le dispositif anti-retour. Le dispositif anti-retour exclut l'option RB.

(C 26)

| | | | | | | | | |
|----------------|--------------------------------|--------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| A 30 2* | A 35 2* ⊖ (5.4_11.8) | A 41 2 ⊖ (5.2; 10.1) | A 50 3 | A 55 3 | A 60 3 | A 70 3 | A 80 3 | A 90 3 |
| | | | A 50 4 | A 55 4 | A 60 4 | A 70 4 | A 80 4 | A 90 4 |

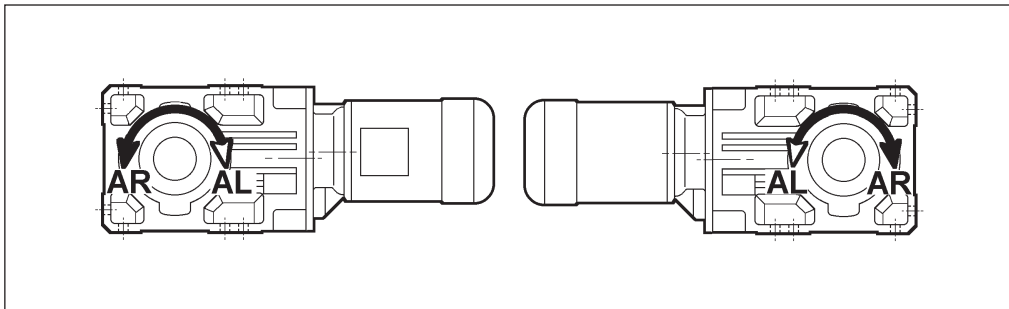
* La fourniture du dispositif anti-retour empêche l'utilisation des adaptations pour servomoteur de type S_60A, S_60B, S_80A

A la commande on (tab. C27) doit préciser le sens de rotation libre en indiquant les options AL ou AR dans la désignation du réducteur ou du moteur.



REMARQUE : Lorsque le dispositif anti-retour intervient très souvent, vérifier que le couple de l'arbre de sortie, résultant de l'application de la charge, ne dépasse pas 70% du couple nominal M_{n2} du réducteur en question.

(C 27)



SO

Les réducteurs A05, A10, A20, A30, A35 et A41, habituellement fournis avec lubrifiant, sont livrés sans huile.

LO

Les réducteurs A50, A55, A60, A70, A80 et A90, habituellement dépourvus de lubrifiant, sont demandés avec huile synthétique du type couramment utilisé par BONFIGLIOLI RIDUTTORI et remplis conformément à la position de montage demandée.

DV

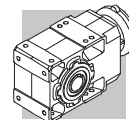
2 bagues d'étanchéité sur l'arbre rapide. (Disponible seulement sur les motoréducteurs compacts).

VV

Bague d'étanchéité en élastomère fluoré sur l'arbre rapide.

PV

Toutes les bagues d'étanchéité en élastomère fluoré.



TKL

Pour les réducteurs A70...A90, à utiliser dans les environnements caractérisés par la présence de poussières abrasives, sont disponibles pour l'arbre lent des joints de type Taconite constitués d'une combinaison de bagues d'étanchéité, de labyrinthes et d'une chambre de lubrification.

La présence de graisse doit être vérifiée pendant les opérations d'entretien périodiques.


Cette option prévoit bagues d'étanchéité en élastomère fluoré sur tous les axes.

Pour la position de montage B6 contacter le Service Technique de Bonfiglioli.

HDB

Pour les applications caractérisées par la présence de charges radiales particulièrement importantes et pour lesquelles la capacité radiale offerte par les réducteurs en exécution standard n'est pas suffisante, il est possible de commander certains réducteurs dotés d'une capacité radiale augmentée en précisant l'option HDB lors de la commande. Cette option est disponible pour les réducteurs à partir du A10 et jusqu'au A50, s'ils sont dotés d'un arbre lent cylindrique à simple ou double saillie. Les charges pouvant être supportées par les groupes en exécution renforcée sont indiquées dans le tableau suivant. Les valeurs font référence à l'application de forces au centre de l'arbre lent.

(C 28)

| HDB | R _{N2} | | | | | |
|---|-----------------|--------|----------------|---|--|-----------------|
| | A 10 | A 20 | A 30 | A 35 | A 41 | A 50 |
| n ₁ = 2800 | 5500 N | 6200 N | 9600 N | 12000 N | 15000 N | 20000 N |
|  | | | 8970 N @ i=5.4 | 10200 N @ i=5.4 10600 N @ i=6.4 11000 N @ i=7.0 | 11500 N @ i=5.2 12700 N @ i=7.1 13300 N @ i=8.3 13700 N @ i=9.2 | 19000 N @ i=7.7 |
| n ₁ = 1400 | 5500 N | 6200 N | 9600 N | 12000 N | 15000 N | 20000 N |
| n ₁ = 900 | 5500 N | 6200 N | 9600 N | 12000 N | 15000 N | 20000 N |
| n ₁ = 500 | 5500 N | 6200 N | 9600 N | 12000 N | 15000 N | 20000 N |

Les roulements renforcés permettent également l'application d'un pourcentage de charge axiale plus important, notamment :

$$A_{N2} = 0.35 \times R_{N2} \quad (24)$$

En l'absence d'une charge radiale, la charge axiale applicable est :

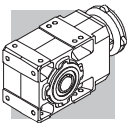
$$A_{N2} = 0.70 \times R_{N2} \quad (25)$$

En cas de forces appliquées simultanément sur les deux saillies de l'arbre lent, il est recommandé de contacter le Service Technique de Bonfiglioli pour la vérification.

RB

Les réducteurs des types A10, A20, A30, A35, A41, A50, A55 et A60, habituellement fournis avec un jeu angulaire standard, sont, dans ce cas, fournis avec un jeu angulaire réduit (exclut les options réducteurs AL et AR décrites dans le présent paragraphe).

Les valeurs correspondantes au jeu angulaire sont reportées dans le tableau suivant.



(C 29)

| | | standard | | RB | |
|-----|---------------|-----------------------------|-------------------------------|-----------------------------|-------------------------------|
| A05 | i = | 5.5_12.3 - \ominus (10.6) | 10.6_91.6 - \ominus (12.3) | — | |
| | \varnothing | 28 | 18 | — | |
| A10 | i = | 5.5_12.3 - \ominus (10.6) | 10.6_91.6 - \ominus (12.3) | 5.5_12.3 - \ominus (10.6) | 10.6_91.6 - \ominus (12.3) |
| | \varnothing | 27 | 17 | 12 | 8 |
| A20 | i = | 5.4_12 - \ominus (10.3) | 10.3_380.9 - \ominus (12) | 5.4_12 - \ominus (10.3) | 10.3_380.9 - \ominus (12) |
| | \varnothing | 23 | 15 | 11 | 7 |
| A30 | i = | 5.4_11.8 - \ominus (10.5) | 10.5_400.8 - \ominus (11.8) | 5.4_11.8 - \ominus (10.5) | 10.5_400.8 - \ominus (11.8) |
| | \varnothing | 22 | 15 | 10 | 7 |
| A35 | i = | 5.4_11.8 | 13.1_393.2 | 5.4_11.8 | 13.1_393.2 |
| | \varnothing | 20 | 11 | 9 | 6 |
| A41 | i = | 5.2_11.7 - \ominus (10.1) | 10.1_376.8 - \ominus (11.7) | 5.2-11.7 - \ominus (10.1) | 10.1_376.8 - \ominus (11.7) |
| | \varnothing | 19 | 13 | 9 | 6 |
| A50 | i = | 7.7_778.2 | | 7.7_778.2 | |
| | \varnothing | 16 | | 7 | |
| A55 | i = | 4.9_19.2 | 23.8_793 | 4.9_19.2 | 23.8_793 |
| | \varnothing | 17 | 11 | 8 | 6 |
| A60 | i = | 7.9_20.6 | 25.7_755.4 | 7.9_20.6 | 25.7_755.4 |
| | \varnothing | 12 | 9 | 5 | 4 |
| A70 | i = | 9.4_21.3 | 23.5_1715 | — | |
| | \varnothing | 14 | 12 | — | |
| A80 | i = | 9.8_20.9 | 22.6_1558 | — | |
| | \varnothing | 13 | 11 | — | |
| A90 | i = | 9.7_21 | 22.3_1632 | — | |
| | \varnothing | 12 | 10 | — | |

Pour la cadence de livraison contacter le réseau de vente Bonfiglioli

PROTECTION DE SURFACE

Lorsque qu'aucune classe de protection n'est requise, les surfaces (ferreuses) des réducteurs fournissent une protection minimale de classe C2 (UNI EN ISO 12944-2). Afin d'améliorer la résistance à la corrosion atmosphérique, les réducteurs peuvent être fournis avec une protection de surface **C3** et **C4**, obtenue par recouvrement complet.

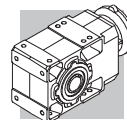
(C 30)

| PROTECTION DE SURFACE | Environnements typiques | Température maximum de surface | Classe de corrosivité en accord avec UNI EN ISO 12944-2 |
|-----------------------|--|--------------------------------|---|
| C3 | Environnement urbains et industriels avec jusqu'à 100% d'humidité relative (pollution de l'air moyenne) | 120°C | C3 |
| C4 | Zones industrielles, zones côtières, usines chimiques, avec jusqu'à 100% d'humidité relative (pollution de l'air élevée) | 120°C | C4 |

Les réducteurs avec une protection optionnelle en classes **C3** ou **C4** sont disponibles dans plusieurs teintes.

Si aucune teinte spécifique n'est requise (voir l'option "PEINTURE"), les réducteurs seront réalisés en RAL 7042.

Les réducteurs peuvent également être fournis avec une protection de surface pour une corrosivité en classe **C5** en accord avec UNI EN ISO 12944-2. Contacter notre Service Technique pour plus de détails.



PEINTURE

Les réducteurs avec une protection optionnelle en classe C3 ou C4 sont disponibles dans les teintes indiquées dans la table suivante.

(C 31)

| PEINTURE | Couleur | RAL numéro |
|-----------------|-----------------|------------|
| RAL7042* | Gris trafic A | 7042 |
| RAL5010 | Bleu gentiane | 5010 |
| RAL9005 | Noir foncé | 9005 |
| RAL9006 | Aluminium blanc | 9006 |
| RAL9010 | Blanc pur | 9010 |

* Les réducteurs sont fournis dans cette teinte standard si rien n'est spécifié.

NOTE – Les options “PEINTURE” peuvent seulement être spécifiées en accord avec les options “PROTECTION DE SURFACE”.

PREUVES DOCUMENTAIRES

AC - Certificat de conformité

Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

CC - Certificat de réception

La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des dimensions d'accouplement. En outre, des contrôles généraux de fonctionnement à vide et des vérifications de la fonctionnalité des joints d'étanchéité sont réalisés en modalité statique et en fonctionnement. La vérification s'applique à un échantillon statistique du lot d'expédition.

33.2 Accessoires

Voir le paragraphe 45 de ce catalogue.

33.3 Options moteurs

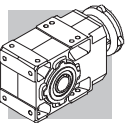
AA, AC, AD

Position angulaire du levier de déblocage du frein par rapport à la position de la boîte à bornes en regardant du côté du ventilateur.

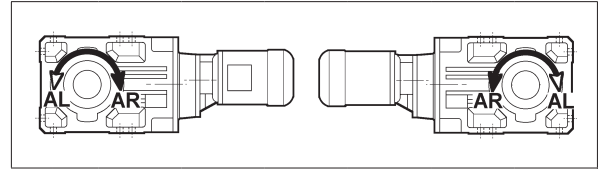
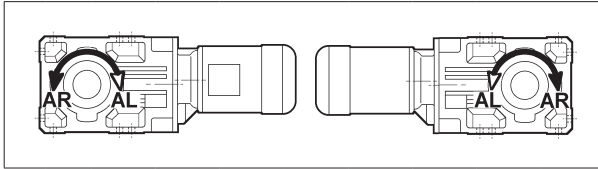
Position standard = 90° sens horaire. AA = 0°, AC = 180°, AD = 90° sens anti-horaire.

AL, AR

Pour les motoréducteurs équipés d'un moteur compact de série M, l'option antidévireur située sur le moteur même et décrite dans la section moteurs électriques de ce catalogue est disponible. Le tableau suivant montre le sens de rotation libre du réducteur, sur la base duquel devra être effectué le choix de l'option.



(C 32)



| | | | | | | | | |
|----|------|------|------|------|------|------|------|------|
| 2x | A 05 | A 10 | A 20 | A 30 | A 35 | A 41 | A 50 | A 60 |
| 3x | A 60 | A 70 | A 80 | A 90 | | | | |
| 4x | A 50 | A 55 | | | | | | |

| | | | | | | | | |
|----|------|------|------|------|------|------|--|--|
| 2x | A 55 | | | | | | | |
| 3x | A 20 | A 30 | A 35 | A 41 | A 50 | A 55 | | |
| 4x | A 60 | A 70 | A 80 | A 90 | | | | |

CF

Filtre capacitif.

D3

3 sondes bimétalliques dans les enroulements à une température de 150 °C.

E3

3 thermistances dans les enroulements à une température de 150 °C.

F1

Volant pour démarrage progressif.

H1

Réchauffeurs anticondensation.

Alimentation standard 1~ 230V ±10%.

PN

Puissance à 60 Hz correspondante à la puissance normalisée à 50 Hz.

PS

Double extrémité d'arbre (à l'exclusion de l'option RC et U1).

RC

Capot protection antipluie (option PS exclue).

RV

Equilibrage rotor avec degré de vibration B.

TC

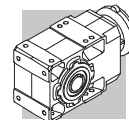
La variante du capot type TC est à spécifier lorsque le moteur est installé dans des sites de l'industrie textile. L'option exclue les variantes EN_ et n'est pas applicable aux moteurs avec frein type BA.

TP

Tropicalisation.

U1

Servo-ventilateur (options PS et CUS exclues).



U2

Servoventilateur sans boîte à bornes, doté de câbles précâblés à l'intérieur. Pas applicable ensemble aux options PS et CUS. Disponible pour moteurs : BN 71 ... BN 132, M1 ... M4.

Pour de plus amples informations sur les options, consulter la section moteurs électriques.

34 LUBRIFICATION

Les organes internes des réducteurs Bonfiglioli sont lubrifiés avec un système mixte d'immersion et de barbotage de l'huile.

Les groupes A 05, A 10, A 20, A 30, A 35 et A 41 sont normalement livrés avec charge de lubrifiant de l'usine, ou du réseau de vente officiel.

Les groupes de taille A 50 et supérieures sont normalement fournis sans lubrifiant, et le remplissage d'huile sera à la charge de l'utilisateur avant la mise en service.

Dans les deux cas, selon les versions, avant la mise en service du réducteur, il pourrait être nécessaire de remplacer le bouchon fermé utilisé pour le transport par le bouchon d'évent fourni.

Pour les tableaux de référence pour le placement des bouchons de service et la quantité de lubrifiant, se référer au Manuel d'Installation, Utilisation et Entretien (disponible sur www.bonfiglioli.com).

Le lubrifiant "long life", fourni de série est de nature synthétique et, à moins de contamination par l'extérieur, il ne demande pas des remplacements périodiques pour toute la durée de vie du réducteur.

Le fonctionnement des réducteurs est admis pour des températures ambiantes comprises entre -20°C et +40°C. Pour des températures ambiantes comprises entre -20°C et -10°C le démarrage du réducteur est admis seulement après un préchauffage progressif et homogène, ou avec un fonctionnement « à vide », sans charge appliquée.

La charge pourra être ensuite appliquée à l'arbre du réducteur quand celui-ci aura atteint une température de -10°C, ou supérieure.

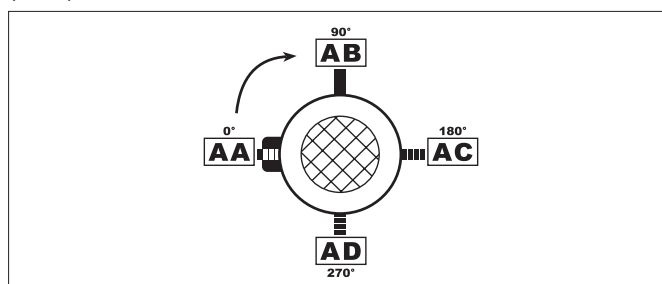
35 POSITIONS DE MONTAGE ET ORIENTATION BOITE A BORNES

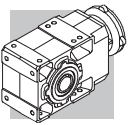
Les orientations des boîtes à bornes des moteurs sont définies en regardant le moteur du côté ventilateur. L'orientation standard est indiquée en noir (W).

Position angulaire levier débloqué frein.

Dans les moteurs freins, ce levier (si requis) aura l'orientation standard de 90° par rapport à la boîte à bornes (position AB); spécifier avec options relatives si l'orientation désirée est différente.

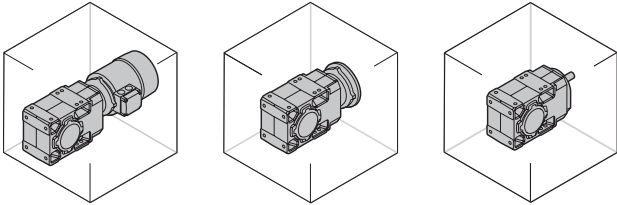
(C 33)



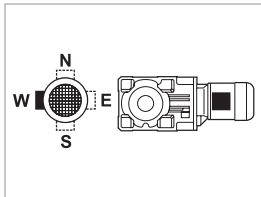


A ...

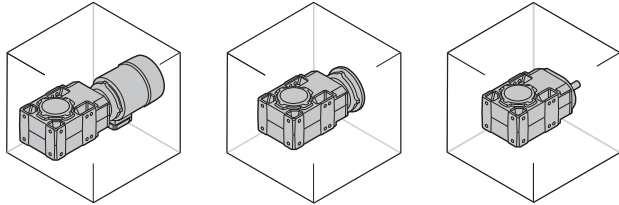
B3



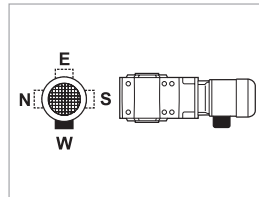
_S _P(IEC) _SK / _SC _HS



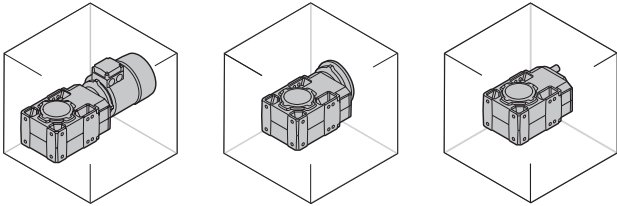
B6



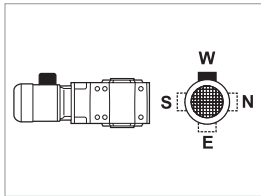
_S _P(IEC) _SK / _SC _HS



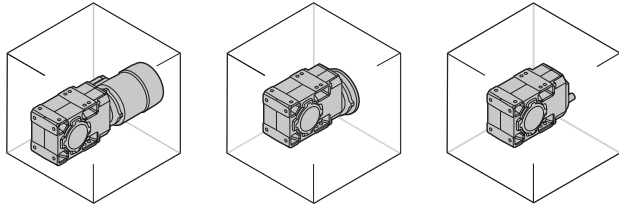
B7



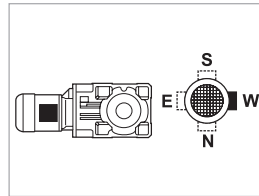
_S _P(IEC) _SK / _SC _HS



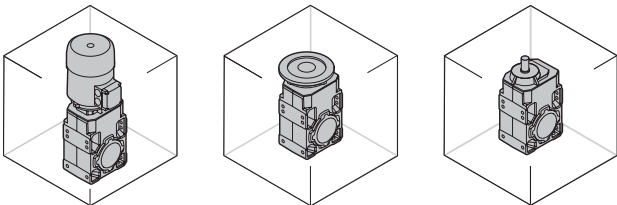
B8



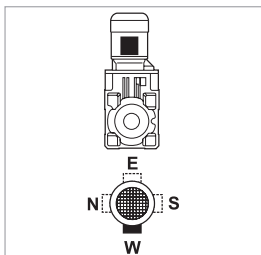
_S _P(IEC) _SK / _SC _HS



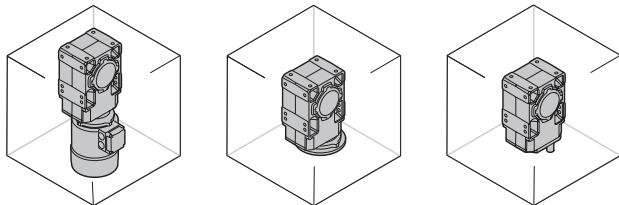
VA



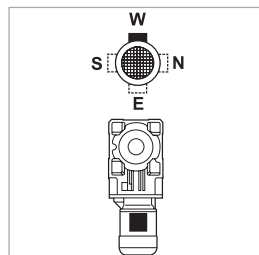
_S _P(IEC) _SK / _SC _HS



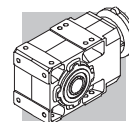
VB



_S _P(IEC) _SK / _SC _HS



W = Default



36 CHARGES RADIALES

Les organes de transmission calés sur les arbres d'entrée et/ou de sortie du réducteur génèrent des forces dont la résultante agit sur l'arbre dans le sens radial.

L'entité de ces charges doit être compatible avec la capacité d'endurance du système arbre-roulements du réducteur. Plus particulièrement, la valeur absolue de la charge appliquée (R_{c1} pour l'arbre d'entrée, R_{c2} pour l'arbre de sortie) doit être inférieure à la valeur nominale (R_{n1} pour l'arbre d'entrée, R_{n2} pour l'arbre de sortie) indiquée dans les tableaux des données techniques.

Dans les formules qui suivent, l'indice (1) se réfère à des valeurs relatives à l'arbre rapide, l'indice (2) concerne l'arbre lent.

La charge générée par une transmission extérieure peut être calculée, avec une bonne approximation, au moyen de la formule suivante :

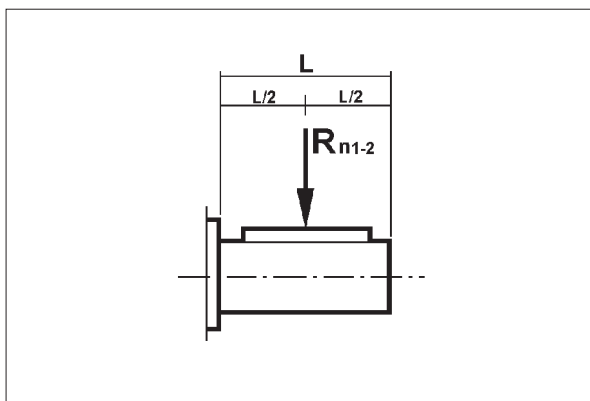
$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (26)$$

(C 34)

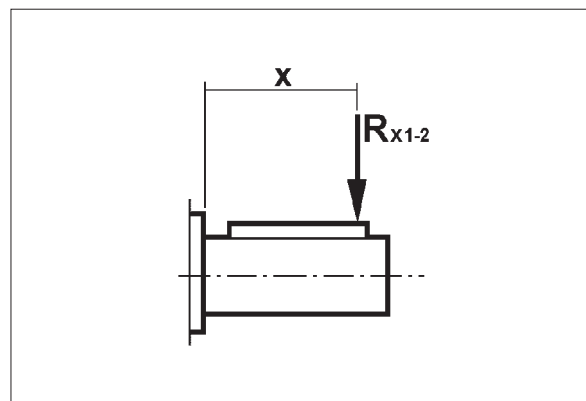
| | | | |
|------------|---|--------------|--------------------------------------|
| M_1 [Nm] | Couple appliqué à l'arbre rapide | $K_r = 1,25$ | Transmission à engrenage |
| M_2 [Nm] | Couple délivré par l'arbre lent | $K_r = 1,5$ | Transmission à courroie trapézoïdale |
| d [mm] | Diamètre primitif de l'organe monté sur l'arbre | $K_r = 2,0$ | Transmission à courroie plate |
| $K_r = 1$ | Transmission à chaîne | | |

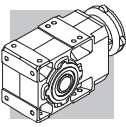
En fonction du point d'application de la charge sur l'arbre, la vérification de la compatibilité sera différente, plus particulièrement :

(C 35)



(C 36)





a) Application au milieu, tab. (C35)

La charge précédemment calculée doit être comparée avec la valeur nominale correspondante indiquée dans le catalogue, on doit vérifier :

$$R_{c1} \leq R_{n1} \text{ [arbre rapide]}$$

ou

$$R_{c2} \leq R_{n2} \text{ [arbre lent]}$$

b) Application déplacée du milieu, tab. (C36)

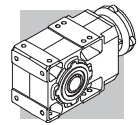
L'application de la charge à une distance "x" de la butée de l'arbre implique un nouveau calcul de la valeur admissible à cette distance.

La nouvelle valeur est indiquée par les symboles R_{x1} (entrée) et R_{x2} (sortie) ou peut être calculée d'après les valeurs de catalogue, respectivement R_{n1} et R_{n2} , en élaborant le facteur :

$$\frac{a}{b+x} \quad (27)$$

(C 37)

| | Constantes du réducteur | | | | | |
|------------------------|-------------------------|-------|------|--------------|------|------|
| | Arbre lent | | | Arbre rapide | | |
| | a | b | c | a | b | c |
| A 05 2 | 116 | 86 | 450 | — | — | — |
| A 10 2 | 123 | 101 | 600 | 21 | 1 | 300 |
| A 20 2 | 150 | 120 | 750 | 40 | 20 | 350 |
| A 20 3 | 150 | 120 | 750 | 21 | 1 | 300 |
| A 30 2 | 168 | 138 | 900 | 38.5 | 18.5 | 350 |
| A 30 3 | 168 | 138 | 900 | 21 | 1 | 300 |
| A 35 2 | 182.5 | 147.5 | 950 | 38.5 | 18.5 | 350 |
| A 35 3 | 182.5 | 147.5 | 950 | 21 | 1 | 300 |
| A 41 2 | 198 | 158 | 1050 | 49.5 | 24.5 | 450 |
| A 41 3 | 198 | 158 | 1050 | 40 | 20 | 350 |
| A 50 2 - A 50 3 | 242.5 | 201.5 | 1300 | 49.5 | 24.5 | 450 |
| A 50 4 | 242.5 | 201.5 | 1300 | 38.5 | 18.5 | 350 |
| A 55 2 - A 55 3 | 231.5 | 179 | 1300 | 49.5 | 24.5 | 450 |
| A 55 4 | 231.5 | 179 | 1300 | 38.5 | 18.5 | 350 |
| A 60 2 - A 60 3 | 242.5 | 190 | 1550 | 55.5 | 25.5 | 600 |
| A 60 4 | 242.5 | 190 | 1550 | 49.5 | 24.5 | 450 |
| A 70 3 | 295.5 | 230.5 | 1900 | 86 | 31 | 1000 |
| A 70 4 | 295.5 | 230.5 | 1900 | 49.5 | 24.5 | 450 |
| A 80 3 | 345 | 280 | 2400 | 86 | 31 | 1000 |
| A 80 4 | 345 | 280 | 2400 | 49.5 | 24.5 | 450 |
| A 90 3 | 432 | 327 | 3000 | 116 | 46 | 1400 |
| A 90 4 | 432 | 327 | 3000 | 49.5 | 24.5 | 450 |



La procédure de vérification comporte les pas successifs indiqués ici.

ARBRE RAPIDE

1. Calcul de :

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (28)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (29)$$

Ensuite, vérifier que :

$$R_{c1} \leq R_{x1} \quad (30)$$

ARBRE LENT

1. Calcul de :

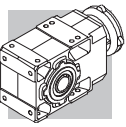
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (31)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (32)$$

Ensuite, vérifier que :

$$R_{c2} \leq R_{x2} \quad (33)$$



37 CHARGES AXIALES, A_{n1} , A_{n2}

Les valeurs de charge axiale admissible sur les arbres rapides [A_{n1}] et lent [A_{n2}] peuvent être calculées, en se référant à la valeur de charge radiale correspondante [R_{n1}] et [R_{n2}] au moyen des formules suivantes.

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0,2 \\ A_{n2} &= R_{n2} \cdot 0,2 \end{aligned} \quad (34)$$

Les valeurs de charge axiale admissible ainsi calculées se réfèrent au cas de forces axiales agissant en même temps que les charges radiales nominales.

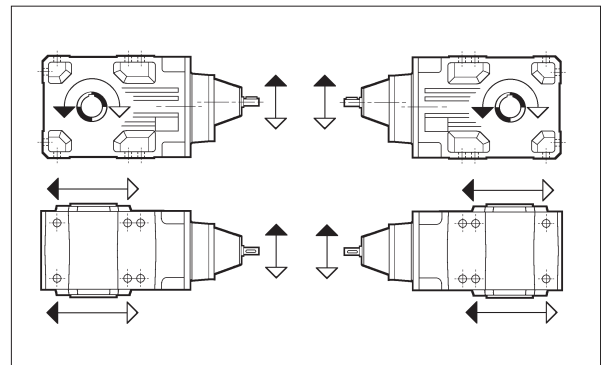
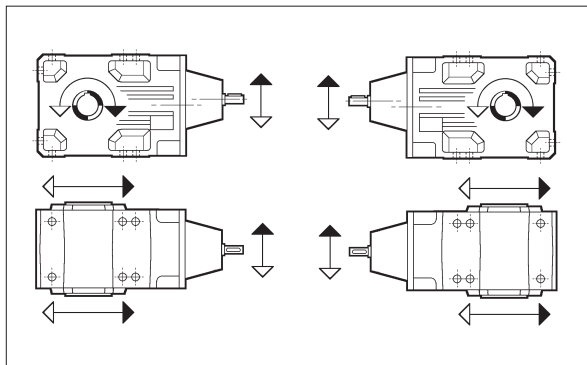
Dans le cas où la valeur de la charge radiale agissant sur l'arbre est nulle, l'on peut considérer la charge axiale admissible [A_n] égale à 50% de la valeur de la charge radiale admissible [R_n] sur le même arbre.

En présence de charges axiales excédant la valeur admissible, ou de forces axiales fortement supérieures aux charges radiales, il est conseillé de contacter le Service Technique Bonfiglioli Riduttori pour une vérification.

38 ROTATION ARBRES

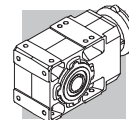
Dans les schémas reportés dans le tableau suivant sont indiqués les sens de rotation standard des réducteurs avec arbres orthogonaux à 2, 3 et 4 étages de réduction.

(C 38)



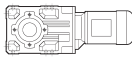



| | | | | | | | | |
|----|------|------|------|------|------|------|------|------|
| 2x | A 05 | A 10 | A 20 | A 30 | A 35 | A 41 | A 50 | A 60 |
| 3x | A 60 | A 70 | A 80 | A 90 | | | | |
| 4x | A 50 | A 55 | | | | | | |

| | | | | | | | | |
|----|------|------|------|------|------|------|--|--|
| 2x | A 55 | | | | | | | |
| 3x | A 20 | A 30 | A 35 | A 41 | A 50 | A 55 | | |
| 4x | A 60 | A 70 | A 80 | A 90 | | | | |

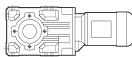





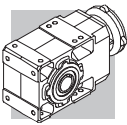
39 DONNEES TECHNIQUES MOTOREDUCTEURS

0.09 kW

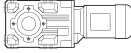




| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|------|-------|----------------------|---|--|---|---|
| 0.51 | 1492 | 3.4 | 1715 | 50000 | | | A704_1715 P63 BN63A6 | 309 |
| 1.1 | 677 | 2.2 | 778.2 | 20000 | | | A504_778.2 P63 BN63A6 | 297 |
| 1.2 | 616 | 2.4 | 707.9 | 20000 | | | A504_707.9 P63 BN63A6 | 297 |
| 1.4 | 549 | 2.7 | 631.2 | 20000 | | | A504_631.2 P63 BN63A6 | 297 |
| 1.5 | 499 | 3.0 | 574.2 | 20000 | | | A504_574.2 P63 BN63A6 | 297 |
| 1.7 | 461 | 3.3 | 529.5 | 20000 | | | A504_529.5 P63 BN63A6 | 297 |
| 2.2 | 356 | 1.0 | 400.8 | 9600 | A303_400.8 S05 M05A6 | 284 | A303_400.8 P63 BN63A6 | 285 |
| 2.6 | 302 | 1.7 | 339.3 | 12000 | A353_339.3 S05 M05A6 | 288 | A353_339.3 P63 BN63A6 | 289 |
| 3.0 | 259 | 3.3 | 291.7 | 15000 | A413_291.7 S05 M05A6 | 292 | A413_291.7 P63 BN63A6 | 293 |
| 3.5 | 221 | 2.7 | 248.1 | 12000 | A353_248.1 S05 M05A6 | 288 | A353_248.1 P63 BN63A6 | 289 |
| 4.1 | 193 | 2.1 | 216.6 | 9600 | A303_216.6 S05 M05A6 | 284 | A303_216.6 P63 BN63A6 | 285 |
| 4.9 | 159 | 1.6 | 178.3 | 6200 | A203_178.3 S05 M05A6 | 280 | A203_178.3 P63 BN63A6 | 281 |
| 5.8 | 134 | 2.8 | 150.7 | 9600 | A303_150.7 S05 M05A6 | 284 | A303_150.7 P63 BN63A6 | 285 |
| 6.8 | 115 | 2.2 | 129.1 | 6200 | A203_129.1 S05 M05A6 | 280 | A203_129.1 P63 BN63A6 | 281 |
| 8.1 | 97 | 2.5 | 109.2 | 6200 | A203_109.2 S05 M05A6 | 280 | A203_109.2 P63 BN63A6 | 281 |
| 9.6 | 84 | 1.5 | 91.6 | 5500 | A102_91.6 S05 M05A6 | 276 | A102_91.6 P63 BN63A6 | 277 |
| 11.5 | 70 | 2.1 | 76.4 | 5500 | A102_76.4 S05 M05A6 | 276 | A102_76.4 P63 BN63A6 | 277 |
| 13.3 | 61 | 2.5 | 65.9 | 5500 | A102_65.9 S05 M05A6 | 276 | A102_65.9 P63 BN63A6 | 277 |
| 15.0 | 54 | 2.8 | 58.6 | 5500 | A102_58.6 S05 M05A6 | 276 | A102_58.6 P63 BN63A6 | 277 |
| 17.2 | 47 | 3.2 | 51.3 | 5500 | A102_51.3 S05 M05A6 | 276 | A102_51.3 P63 BN63A6 | 277 |
| 19.4 | 42 | 2.4 | 45.4 | 4250 | A052_45.4 S05 M05A6 | 273 | A052_45.4 P63 BN63A6 | 273 |
| 21.5 | 38 | 2.7 | 40.9 | 4120 | A052_40.9 S05 M05A6 | 273 | A052_40.9 P63 BN63A6 | 273 |
| 25.1 | 32 | 3.1 | 35.1 | 3950 | A052_35.1 S05 M05A6 | 273 | A052_35.1 P63 BN63A6 | 273 |
| 27.3 | 30 | 3.4 | 32.2 | 3850 | A052_32.2 S05 M05A6 | 273 | A052_32.2 P63 BN63A6 | 273 |
| 31 | 26 | 3.8 | 28.6 | 3720 | A052_28.6 S05 M05A6 | 273 | A052_28.6 P63 BN63A6 | 273 |
| 35 | 23 | 4.4 | 25.5 | 3590 | A052_25.5 S05 M05A6 | 273 | A052_25.5 P63 BN63A6 | 273 |
| 37 | 22 | 4.6 | 23.8 | 3520 | A052_23.8 S05 M05A6 | 273 | A052_23.8 P63 BN63A6 | 273 |
| 41 | 19.6 | 5.3 | 21.4 | 3410 | A052_21.4 S05 M05A6 | 273 | A052_21.4 P63 BN63A6 | 273 |
| 47 | 17.1 | 5.9 | 18.6 | 3270 | A052_18.6 S05 M05A6 | 273 | A052_18.6 P63 BN63A6 | 273 |
| 53 | 15.1 | 6.8 | 16.4 | 3150 | A052_16.4 S05 M05A6 | 273 | A052_16.4 P63 BN63A6 | 273 |
| 63 | 12.8 | 7.8 | 13.9 | 2990 | A052_13.9 S05 M05A6 | 273 | A052_13.9 P63 BN63A6 | 273 |
| 72 | 11.3 | 8.8 | 12.3 | 2880 | A052_12.3 S05 M05A6 | 273 | A052_12.3 P63 BN63A6 | 273 |
| 83 | 9.7 | 10.3 | 10.6 | 2740 | A052_10.6 S05 M05A6 | 273 | A052_10.6 P63 BN63A6 | 273 |
| 92 | 8.8 | 11.3 | 9.6 | 2670 | A052_9.6 S05 M05A6 | 273 | A052_9.6 P63 BN63A6 | 273 |
| 103 | 7.8 | 13.2 | 8.5 | 2570 | A052_8.5 S05 M05A6 | 273 | A052_8.5 P63 BN63A6 | 273 |
| 122 | 6.6 | 15.1 | 7.2 | 2440 | A052_7.2 S05 M05A6 | 273 | A052_7.2 P63 BN63A6 | 273 |
| 139 | 5.8 | 17.8 | 6.3 | 2340 | A052_6.3 S05 M05A6 | 273 | A052_6.3 P63 BN63A6 | 273 |
| 161 | 5.0 | 19.9 | 5.5 | 2230 | A052_5.5 S05 M05A6 | 273 | A052_5.5 P63 BN63A6 | 273 |

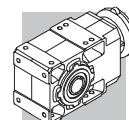
0.12 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 0.51 | 2012 | 2.5 | 1715 | 50000 | | | A704_1715 P63 BN63B6 | 309 |
| 0.55 | 1857 | 2.7 | 1583 | 50000 | | | A704_1583 P63 BN63B6 | 309 |
| 0.65 | 1579 | 3.2 | 1346 | 50000 | | | A704_1346 P63 BN63B6 | 309 |
| 0.70 | 1457 | 3.4 | 1242 | 50000 | | | A704_1242 P63 BN63B6 | 309 |

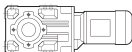




0.12 kW




| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 1.1 | 913 | 1.6 | 778.2 | 20000 | | | A504_778.2 P63 BN63B6 | 297 |
| 1.2 | 818 | 3.4 | 697.3 | 30000 | | | A604_697.3 P63 BN63B6 | 305 |
| 1.4 | 740 | 2.0 | 631.2 | 20000 | | | A504_631.2 P63 BN63B6 | 297 |
| 1.6 | 621 | 2.4 | 529.5 | 20000 | | | A504_529.5 P63 BN63B6 | 297 |
| 1.7 | 588 | 2.5 | 778.2 | 20000 | | | A504_778.2 P63 BN63A4 | 297 |
| 1.9 | 535 | 2.8 | 707.9 | 20000 | | | A504_707.9 P63 BN63A4 | 297 |
| 2.1 | 477 | 3.1 | 631.2 | 20000 | | | A504_631.2 P63 BN63A4 | 297 |
| 2.4 | 434 | 3.5 | 574.2 | 20000 | | | A504_574.2 P63 BN63A4 | 297 |
| 3.4 | 310 | 1.2 | 400.8 | 9600 | A303_400.8 S05 M05A4 | 284 | A303_400.8 P63 BN63A4 | 285 |
| 3.4 | 304 | 1.5 | 393.2 | 12000 | A353_393.2 S05 M05A4 | 288 | A353_393.2 P63 BN63A4 | 289 |
| 3.6 | 291 | 2.9 | 376.8 | 15000 | A413_376.8 S05 M05A4 | 292 | A413_376.8 P63 BN63A4 | 293 |
| 3.8 | 275 | 1.3 | 356.3 | 9600 | A303_356.3 S05 M05A4 | 284 | A303_356.3 P63 BN63A4 | 285 |
| 4.0 | 262 | 2.0 | 339.3 | 12000 | A353_339.3 S05 M05A4 | 288 | A353_339.3 P63 BN63A4 | 289 |
| 4.1 | 255 | 1.0 | 329.4 | 6200 | A203_329.4 S05 M05A4 | 280 | A203_329.4 P63 BN63A4 | 281 |
| 4.2 | 251 | 3.4 | 324.2 | 15000 | A413_324.2 S05 M05A4 | 292 | A413_324.2 P63 BN63A4 | 293 |
| 4.3 | 243 | 1.6 | 314.5 | 9600 | A303_314.5 S05 M05A4 | 284 | A303_314.5 P63 BN63A4 | 285 |
| 4.4 | 236 | 2.5 | 305.4 | 12000 | A353_305.4 S05 M05A4 | 288 | A353_305.4 P63 BN63A4 | 289 |
| 4.6 | 226 | 1.1 | 292.8 | 6200 | A203_292.8 S05 M05A4 | 280 | A203_292.8 P63 BN63A4 | 281 |
| 5.0 | 210 | 1.8 | 271.5 | 9600 | A303_271.5 S05 M05A4 | 284 | A303_271.5 P63 BN63A4 | 285 |
| 5.0 | 209 | 2.9 | 270.7 | 12000 | A353_270.7 S05 M05A4 | 288 | A353_270.7 P63 BN63A4 | 289 |
| 5.2 | 201 | 1.2 | 260.5 | 6200 | A203_260.5 S05 M05A4 | 280 | A203_260.5 P63 BN63A4 | 281 |
| 5.4 | 192 | 3.1 | 248.1 | 12000 | A353_248.1 S05 M05A4 | 288 | A353_248.1 P63 BN63A4 | 289 |
| 5.5 | 189 | 2.0 | 244.3 | 9600 | A303_244.3 S05 M05A4 | 284 | A303_244.3 P63 BN63A4 | 285 |
| 6.0 | 172 | 3.5 | 223.2 | 12000 | A353_223.2 S05 M05A4 | 288 | A353_223.2 P63 BN63A4 | 289 |
| 6.1 | 171 | 1.5 | 221.3 | 6200 | A203_221.3 S05 M05A4 | 280 | A203_221.3 P63 BN63A4 | 281 |
| 6.2 | 167 | 2.2 | 216.6 | 9600 | A303_216.6 S05 M05A4 | 284 | A303_216.6 P63 BN63A4 | 285 |
| 6.8 | 154 | 1.6 | 199.2 | 6200 | A203_199.2 S05 M05A4 | 280 | A203_199.2 P63 BN63A4 | 281 |
| 6.8 | 153 | 2.3 | 198.5 | 9600 | A303_198.5 S05 M05A4 | 284 | A303_198.5 P63 BN63A4 | 285 |
| 7.6 | 138 | 2.5 | 178.5 | 9600 | A303_178.5 S05 M05A4 | 284 | A303_178.5 P63 BN63A4 | 285 |
| 7.6 | 138 | 1.8 | 178.3 | 6200 | A203_178.3 S05 M05A4 | 280 | A203_178.3 P63 BN63A4 | 281 |
| 8.3 | 126 | 1.9 | 163.4 | 6200 | A203_163.4 S05 M05A4 | 280 | A203_163.4 P63 BN63A4 | 281 |
| 8.4 | 125 | 2.7 | 161.4 | 9600 | A303_161.4 S05 M05A4 | 284 | A303_161.4 P63 BN63A4 | 285 |
| 9.0 | 116 | 2.8 | 150.7 | 9600 | A303_150.7 S05 M05A4 | 284 | A303_150.7 P63 BN63A4 | 285 |
| 9.2 | 113 | 2.0 | 146.1 | 6200 | A203_146.1 S05 M05A4 | 280 | A203_146.1 P63 BN63A4 | 281 |
| 9.8 | 106 | 3.0 | 137.4 | 9600 | A303_137.4 S05 M05A4 | 284 | A303_137.4 P63 BN63A4 | 285 |
| 10.5 | 100 | 2.2 | 129.1 | 6200 | A203_129.1 S05 M05A4 | 280 | A203_129.1 P63 BN63A4 | 281 |
| 11.2 | 93 | 2.3 | 120.5 | 6200 | A203_120.5 S05 M05A4 | 280 | A203_120.5 P63 BN63A4 | 281 |
| 11.2 | 93 | 3.2 | 120.5 | 9600 | A303_120.5 S05 M05A4 | 284 | A303_120.5 P63 BN63A4 | 285 |
| 12.4 | 84 | 2.4 | 109.2 | 6200 | A203_109.2 S05 M05A4 | 280 | A203_109.2 P63 BN63A4 | 281 |
| 14.6 | 74 | 2.7 | 92.3 | 6200 | A202_92.3 S05 M05A4 | 280 | A202_92.3 P63 BN63A4 | 281 |
| 14.7 | 73 | 1.4 | 91.6 | 4420 | A052_91.6 S05 M05A4 | 273 | A052_91.6 P63 BN63A4 | 273 |
| 14.7 | 73 | 1.8 | 91.6 | 5500 | A102_91.6 S05 M05A4 | 276 | A102_91.6 P63 BN63A4 | 277 |
| 16.9 | 64 | 3.3 | 79.9 | 6200 | A202_79.9 S05 M05A4 | 280 | A202_79.9 P63 BN63A4 | 281 |
| 17.7 | 61 | 1.6 | 76.4 | 4230 | A052_76.4 S05 M05A4 | 273 | A052_76.4 P63 BN63A4 | 273 |
| 17.7 | 61 | 2.5 | 76.4 | 5500 | A102_76.4 S05 M05A4 | 276 | A102_76.4 P63 BN63A4 | 277 |
| 20.5 | 53 | 1.9 | 65.9 | 4070 | A052_65.9 S05 M05A4 | 273 | A052_65.9 P63 BN63A4 | 273 |
| 20.5 | 53 | 2.8 | 65.9 | 5500 | A102_65.9 S05 M05A4 | 276 | A102_65.9 P63 BN63A4 | 277 |
| 23.0 | 47 | 2.1 | 58.6 | 3950 | A052_58.6 S05 M05A4 | 273 | A052_58.6 P63 BN63A4 | 273 |
| 23.0 | 47 | 3.2 | 58.6 | 5500 | A102_58.6 S05 M05A4 | 276 | A102_58.6 P63 BN63A4 | 277 |
| 26.3 | 41 | 2.4 | 51.3 | 3810 | A052_51.3 S05 M05A4 | 273 | A052_51.3 P63 BN63A4 | 273 |
| 29.7 | 36 | 2.8 | 45.4 | 3680 | A052_45.4 S05 M05A4 | 273 | A052_45.4 P63 BN63A4 | 273 |

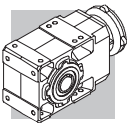


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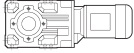



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  | |
|-------------------------------------|----------------------|------|------|----------------------|---|---|---|-----|
| 33 | 33 | 3.1 | 40.9 | 3570 | A052_40.9 S05 M05A4 | 273 | A052_40.9 P63 BN63A4 | 273 |
| 38 | 28 | 3.6 | 35.1 | 3420 | A052_35.1 S05 M05A4 | 273 | A052_35.1 P63 BN63A4 | 273 |
| 42 | 26 | 3.9 | 32.2 | 3340 | A052_32.2 S05 M05A4 | 273 | A052_32.2 P63 BN63A4 | 273 |
| 47 | 23 | 4.4 | 28.6 | 3220 | A052_28.6 S05 M05A4 | 273 | A052_28.6 P63 BN63A4 | 273 |
| 53 | 20 | 4.9 | 25.5 | 3110 | A052_25.5 S05 M05A4 | 273 | A052_25.5 P63 BN63A4 | 273 |
| 57 | 19 | 5.3 | 23.8 | 3050 | A052_23.8 S05 M05A4 | 273 | A052_23.8 P63 BN63A4 | 273 |
| 62 | 17.3 | 5.8 | 13.9 | 2960 | A052_13.9 S05 M05B6 | 273 | A052_13.9 P63 BN63B6 | 273 |
| 63 | 17.1 | 5.9 | 21.4 | 2950 | A052_21.4 S05 M05A4 | 273 | A052_21.4 P63 BN63A4 | 273 |
| 73 | 14.8 | 6.7 | 18.6 | 2830 | A052_18.6 S05 M05A4 | 273 | A052_18.6 P63 BN63A4 | 273 |
| 82 | 13.1 | 7.6 | 16.4 | 2730 | A052_16.4 S05 M05A4 | 273 | A052_16.4 P63 BN63A4 | 273 |
| 90 | 11.9 | 8.4 | 9.6 | 2640 | A052_9.6 S05 M05B6 | 273 | A052_9.6 P63 BN63B6 | 273 |
| 97 | 11.1 | 9.0 | 13.9 | 2590 | A052_13.9 S05 M05A4 | 273 | A052_13.9 P63 BN63A4 | 273 |
| 110 | 9.8 | 10.2 | 12.3 | 2500 | A052_12.3 S05 M05A4 | 273 | A052_12.3 P63 BN63A4 | 273 |
| 121 | 8.9 | 11.2 | 7.2 | 2420 | A052_7.2 S05 M05B6 | 273 | A052_7.2 P63 BN63B6 | 273 |
| 128 | 8.4 | 11.9 | 10.6 | 2380 | A052_10.6 S05 M05A4 | 273 | A052_10.6 P63 BN63A4 | 273 |
| 140 | 7.7 | 13.0 | 9.6 | 2310 | A052_9.6 S05 M05A4 | 273 | A052_9.6 P63 BN63A4 | 273 |
| 159 | 6.8 | 14.7 | 8.5 | 2220 | A052_8.5 S05 M05A4 | 273 | A052_8.5 P63 BN63A4 | 273 |
| 187 | 5.8 | 17.4 | 7.2 | 2110 | A052_7.2 S05 M05A4 | 273 | A052_7.2 P63 BN63A4 | 273 |
| 213 | 5.1 | 19.8 | 6.3 | 2020 | A052_6.3 S05 M05A4 | 273 | A052_6.3 P63 BN63A4 | 273 |
| 247 | 4.4 | 21.8 | 5.5 | 1930 | A052_5.5 S05 M05A4 | 273 | A052_5.5 P63 BN63A4 | 273 |

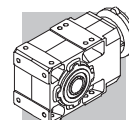
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| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  | |
|-------------------------------------|----------------------|-----|-------|----------------------|---|---|---|-----|
| 0.52 | 2917 | 1.7 | 1715 | 50000 | A704_1715 S1 M1SC6 | 308 | A704_1715 P71 BN71A6 | 309 |
| 0.58 | 2649 | 3.0 | 1558 | 65000 | A804_1558 S1 M1SC6 | 311 | A804_1558 P71 BN71A6 | 312 |
| 0.67 | 2279 | 3.5 | 1340 | 65000 | A804_1340 S1 M1SC6 | 311 | A804_1340 P71 BN71A6 | 312 |
| 0.77 | 1989 | 2.5 | 1715 | 50000 | | | A704_1715 P63 BN63B4 | 309 |
| 0.83 | 1836 | 2.7 | 1583 | 50000 | | | A704_1583 P63 BN63B4 | 309 |
| 0.98 | 1561 | 3.2 | 1346 | 50000 | | | A704_1346 P63 BN63B4 | 309 |
| 1.1 | 1441 | 3.5 | 1242 | 50000 | | | A704_1242 P63 BN63B4 | 309 |
| 1.3 | 1186 | 2.4 | 697.3 | 30000 | A604_697.3 S1 M1SC6 | 304 | A604_697.3 P71 BN71A6 | 305 |
| 1.5 | 996 | 2.8 | 585.8 | 30000 | A604_585.8 S1 M1SC6 | 304 | A604_585.8 P71 BN71A6 | 305 |
| 1.7 | 902 | 1.7 | 778.2 | 20000 | | | A504_778.2 P63 BN63B4 | 297 |
| 1.7 | 876 | 3.2 | 755.4 | 30000 | | | A604_755.4 P63 BN63B4 | 305 |
| 1.9 | 821 | 1.8 | 707.9 | 20000 | | | A504_707.9 P63 BN63B4 | 297 |
| 1.9 | 809 | 3.5 | 697.3 | 30000 | | | A604_697.3 P63 BN63B4 | 305 |
| 2.1 | 732 | 2.0 | 631.2 | 20000 | | | A504_631.2 P63 BN63B4 | 297 |
| 2.3 | 666 | 2.3 | 574.2 | 20000 | | | A504_574.2 P63 BN63B4 | 297 |
| 2.5 | 614 | 2.4 | 529.5 | 20000 | | | A504_529.5 P63 BN63B4 | 297 |
| 2.7 | 559 | 2.7 | 481.6 | 20000 | | | A504_481.6 P63 BN63B4 | 297 |
| 3.0 | 518 | 2.9 | 446.8 | 20000 | | | A504_446.8 P63 BN63B4 | 297 |
| 3.2 | 471 | 3.2 | 406.4 | 20000 | | | A504_406.4 P63 BN63B4 | 297 |
| 3.4 | 466 | 1.0 | 393.2 | 12000 | A353_393.2 S05 M05B4 | 288 | A353_393.2 P63 BN63B4 | 289 |
| 3.5 | 447 | 1.9 | 376.8 | 15000 | A413_376.8 S05 M05B4 | 292 | A413_376.8 P63 BN63B4 | 293 |
| 3.6 | 424 | 3.5 | 365.6 | 20000 | | | A504_365.6 P63 BN63B4 | 297 |
| 3.7 | 422 | 0.9 | 356.3 | 9600 | A303_356.3 S05 M05B4 | 284 | A303_356.3 P63 BN63B4 | 285 |
| 3.9 | 402 | 1.3 | 339.3 | 12000 | A353_339.3 S05 M05B4 | 288 | A353_339.3 P63 BN63B4 | 289 |

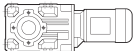





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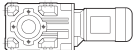



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 4.1 | 384 | 2.2 | 324.2 | 15000 | A413_324.2 S05 M05B4 | 292 | A413_324.2 P63 BN63B4 | 293 |
| 4.2 | 373 | 1.0 | 314.5 | 9600 | A303_314.5 S05 M05B4 | 284 | A303_314.5 P63 BN63B4 | 285 |
| 4.3 | 362 | 1.7 | 305.4 | 12000 | A353_305.4 S05 M05B4 | 288 | A353_305.4 P63 BN63B4 | 289 |
| 4.5 | 346 | 2.5 | 291.7 | 15000 | A413_291.7 S05 M05B4 | 292 | A413_291.7 P63 BN63B4 | 293 |
| 4.9 | 322 | 1.2 | 271.5 | 9600 | A303_271.5 S05 M05B4 | 284 | A303_271.5 P63 BN63B4 | 285 |
| 4.9 | 321 | 1.9 | 270.7 | 12000 | A353_270.7 S05 M05B4 | 288 | A353_270.7 P63 BN63B4 | 289 |
| 5.0 | 311 | 2.7 | 262.5 | 15000 | A413_262.5 S05 M05B4 | 292 | A413_262.5 P63 BN63B4 | 293 |
| 5.3 | 294 | 2.0 | 248.1 | 12000 | A353_248.1 S05 M05B4 | 288 | A353_248.1 P63 BN63B4 | 289 |
| 5.4 | 290 | 1.3 | 244.3 | 9600 | A303_244.3 S05 M05B4 | 284 | A303_244.3 P63 BN63B4 | 285 |
| 5.5 | 285 | 3.0 | 240.6 | 15000 | A413_240.6 S05 M05B4 | 292 | A413_240.6 P63 BN63B4 | 293 |
| 5.9 | 265 | 2.3 | 223.2 | 12000 | A353_223.2 S05 M05B4 | 288 | A353_223.2 P63 BN63B4 | 289 |
| 6.0 | 262 | 1.0 | 221.3 | 6200 | A203_221.3 S05 M05B4 | 280 | A203_221.3 P63 BN63B4 | 281 |
| 6.1 | 258 | 3.3 | 217.4 | 15000 | A413_217.4 S05 M05B4 | 292 | A413_217.4 P63 BN63B4 | 293 |
| 6.1 | 257 | 1.4 | 216.6 | 9600 | A303_216.6 S05 M05B4 | 284 | A303_216.6 P63 BN63B4 | 285 |
| 6.5 | 239 | 2.5 | 201.8 | 12000 | A353_201.8 S05 M05B4 | 288 | A353_201.8 P63 BN63B4 | 289 |
| 6.6 | 236 | 1.1 | 199.2 | 6200 | A203_199.2 S05 M05B4 | 280 | A203_199.2 P63 BN63B4 | 281 |
| 6.6 | 235 | 1.5 | 198.5 | 9600 | A303_198.5 S05 M05B4 | 284 | A303_198.5 P63 BN63B4 | 285 |
| 7.0 | 223 | 2.7 | 188.3 | 12000 | A353_188.3 S05 M05B4 | 288 | A353_188.3 P63 BN63B4 | 289 |
| 7.4 | 212 | 1.6 | 178.5 | 9600 | A303_178.5 S05 M05B4 | 284 | A303_178.5 P63 BN63B4 | 285 |
| 7.4 | 211 | 1.2 | 178.3 | 6200 | A203_178.3 S05 M05B4 | 280 | A203_178.3 P63 BN63B4 | 281 |
| 7.7 | 204 | 2.9 | 171.8 | 12000 | A353_171.8 S05 M05B4 | 288 | A353_171.8 P63 BN63B4 | 289 |
| 8.1 | 194 | 1.2 | 163.4 | 6200 | A203_163.4 S05 M05B4 | 280 | A203_163.4 P63 BN63B4 | 281 |
| 8.2 | 191 | 1.8 | 161.4 | 9600 | A303_161.4 S05 M05B4 | 284 | A303_161.4 P63 BN63B4 | 285 |
| 8.8 | 179 | 1.8 | 150.7 | 9600 | A303_150.7 S05 M05B4 | 284 | A303_150.7 P63 BN63B4 | 285 |
| 8.8 | 179 | 3.4 | 150.6 | 12000 | A353_150.6 S05 M05B4 | 288 | A353_150.6 P63 BN63B4 | 289 |
| 9.0 | 173 | 1.3 | 146.1 | 6200 | A203_146.1 S05 M05B4 | 280 | A203_146.1 P63 BN63B4 | 281 |
| 9.6 | 163 | 1.9 | 137.4 | 9600 | A303_137.4 S05 M05B4 | 284 | A303_137.4 P63 BN63B4 | 285 |
| 10.2 | 153 | 1.4 | 129.1 | 6200 | A203_129.1 S05 M05B4 | 280 | A203_129.1 P63 BN63B4 | 281 |
| 11.0 | 143 | 1.5 | 120.5 | 6200 | A203_120.5 S05 M05B4 | 280 | A203_120.5 P63 BN63B4 | 281 |
| 11.0 | 143 | 2.1 | 120.5 | 9600 | A303_120.5 S05 M05B4 | 284 | A303_120.5 P63 BN63B4 | 285 |
| 12.1 | 129 | 1.6 | 109.2 | 6200 | A203_109.2 S05 M05B4 | 280 | A203_109.2 P63 BN63B4 | 281 |
| 12.1 | 129 | 2.3 | 109.1 | 9600 | A303_109.1 S05 M05B4 | 284 | A303_109.1 P63 BN63B4 | 285 |
| 13.5 | 119 | 2.5 | 97.5 | 9600 | | | A302_97.5 P63 BN63B4 | 285 |
| 14.3 | 113 | 1.8 | 92.3 | 6200 | A202_92.3 S05 M05B4 | 280 | A202_92.3 P63 BN63B4 | 281 |
| 14.4 | 112 | 0.9 | 91.6 | 4120 | A052_91.6 S05 M05B4 | 273 | A052_91.6 P63 BN63B4 | 273 |
| 14.4 | 112 | 1.2 | 91.6 | 5500 | A102_91.6 S05 M05B4 | 276 | A102_91.6 P63 BN63B4 | 277 |
| 15.2 | 106 | 3.0 | 86.7 | 9600 | | | A302_86.7 P63 BN63B4 | 285 |
| 16.5 | 98 | 2.1 | 79.9 | 6200 | A202_79.9 S05 M05B4 | 280 | A202_79.9 P63 BN63B4 | 281 |
| 17.3 | 94 | 1.1 | 76.4 | 3980 | A052_76.4 S05 M05B4 | 273 | A052_76.4 P63 BN63B4 | 273 |
| 17.3 | 94 | 1.6 | 76.4 | 5500 | A102_76.4 S05 M05B4 | 276 | A102_76.4 P63 BN63B4 | 277 |
| 18.6 | 87 | 2.4 | 71.0 | 6200 | A202_71.0 S05 M05B4 | 280 | A202_71.0 P63 BN63B4 | 281 |
| 20.0 | 81 | 1.2 | 65.9 | 3860 | A052_65.9 S05 M05B4 | 273 | A052_65.9 P63 BN63B4 | 273 |
| 20.0 | 81 | 1.9 | 65.9 | 5500 | A102_65.9 S05 M05B4 | 276 | A102_65.9 P63 BN63B4 | 277 |
| 20.9 | 77 | 3.2 | 63.1 | 6200 | A202_63.1 S05 M05B4 | 280 | A202_63.1 P63 BN63B4 | 281 |
| 22.5 | 72 | 1.4 | 58.6 | 3760 | A052_58.6 S05 M05B4 | 273 | A052_58.6 P63 BN63B4 | 273 |
| 22.5 | 72 | 2.1 | 58.6 | 5500 | A102_58.6 S05 M05B4 | 276 | A102_58.6 P63 BN63B4 | 277 |
| 25.8 | 63 | 1.6 | 51.3 | 3640 | A052_51.3 S05 M05B4 | 273 | A052_51.3 P63 BN63B4 | 273 |
| 25.8 | 63 | 2.4 | 51.3 | 5500 | A102_51.3 S05 M05B4 | 276 | A102_51.3 P63 BN63B4 | 277 |
| 29.1 | 56 | 1.8 | 45.4 | 3540 | A052_45.4 S05 M05B4 | 273 | A052_45.4 P63 BN63B4 | 273 |
| 29.1 | 56 | 2.7 | 45.4 | 5500 | A102_45.4 S05 M05B4 | 276 | A102_45.4 P63 BN63B4 | 277 |
| 32 | 50 | 2.0 | 40.9 | 3440 | A052_40.9 S05 M05B4 | 273 | A052_40.9 P63 BN63B4 | 273 |

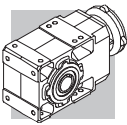


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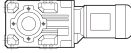




| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|------|------|----------------------|---|--|---|---|
| 32 | 50 | 3.0 | 40.9 | 5500 | A102_40.9 S05 M05B4 | 276 | A102_40.9 P63 BN63B4 | 277 |
| 38 | 43 | 2.3 | 35.1 | 3310 | A052_35.1 S05 M05B4 | 273 | A052_35.1 P63 BN63B4 | 273 |
| 38 | 43 | 3.5 | 35.1 | 5380 | A102_35.1 S05 M05B4 | 276 | A102_35.1 P63 BN63B4 | 277 |
| 41 | 39 | 2.5 | 32.2 | 3240 | A052_32.2 S05 M05B4 | 273 | A052_32.2 P63 BN63B4 | 273 |
| 46 | 35 | 2.9 | 28.6 | 3130 | A052_28.6 S05 M05B4 | 273 | A052_28.6 P63 BN63B4 | 273 |
| 52 | 31 | 3.2 | 25.5 | 3040 | A052_25.5 S05 M05B4 | 273 | A052_25.5 P63 BN63B4 | 273 |
| 56 | 29 | 3.4 | 23.8 | 2980 | A052_23.8 S05 M05B4 | 273 | A052_23.8 P63 BN63B4 | 273 |
| 62 | 26 | 3.8 | 21.4 | 2890 | A052_21.4 S05 M05B4 | 273 | A052_21.4 P63 BN63B4 | 273 |
| 71 | 23 | 4.4 | 18.6 | 2780 | A052_18.6 S05 M05B4 | 273 | A052_18.6 P63 BN63B4 | 273 |
| 80 | 20 | 5.0 | 16.4 | 2680 | A052_16.4 S05 M05B4 | 273 | A052_16.4 P63 BN63B4 | 273 |
| 95 | 17.1 | 5.9 | 13.9 | 2550 | A052_13.9 S05 M05B4 | 273 | A052_13.9 P63 BN63B4 | 273 |
| 107 | 15.1 | 6.6 | 12.3 | 2460 | A052_12.3 S05 M05B4 | 273 | A052_12.3 P63 BN63B4 | 273 |
| 125 | 12.9 | 7.7 | 10.6 | 2350 | A052_10.6 S05 M05B4 | 273 | A052_10.6 P63 BN63B4 | 273 |
| 137 | 11.8 | 8.5 | 9.6 | 2280 | A052_9.6 S05 M05B4 | 273 | A052_9.6 P63 BN63B4 | 273 |
| 142 | 11.4 | 8.8 | 6.3 | 2300 | A052_6.3 S1 M1SC6 | 273 | A052_6.3 P71 BN71A6 | 273 |
| 155 | 10.4 | 9.6 | 8.5 | 2200 | A052_8.5 S05 M05B4 | 273 | A052_8.5 P63 BN63B4 | 273 |
| 183 | 8.8 | 11.3 | 7.2 | 2090 | A052_7.2 S05 M05B4 | 273 | A052_7.2 P63 BN63B4 | 273 |
| 208 | 7.8 | 12.9 | 6.3 | 2010 | A052_6.3 S05 M05B4 | 273 | A052_6.3 P63 BN63B4 | 273 |
| 242 | 6.7 | 14.2 | 5.5 | 1920 | A052_5.5 S05 M05B4 | 273 | A052_5.5 P63 BN63B4 | 273 |
| 284 | 5.7 | 16.7 | 9.6 | 1830 | A052_9.6 S05 M05A2 | 273 | A052_9.6 P63 BN63A2 | 273 |
| 321 | 5.0 | 17.8 | 8.5 | 1770 | A052_8.5 S05 M05A2 | 273 | A052_8.5 P63 BN63A2 | 273 |
| 379 | 4.3 | 19.9 | 7.2 | 1670 | A052_7.2 S05 M05A2 | 273 | A052_7.2 P63 BN63A2 | 273 |
| 431 | 3.8 | 21.3 | 6.3 | 1610 | A052_6.3 S05 M05A2 | 273 | A052_6.3 P63 BN63A2 | 273 |
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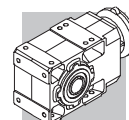
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| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 0.52 | 4051 | 1.2 | 1715 | 50000 | A704_1715 S1 M1SD6 | 308 | A704_1715 P71 BN71B6 | 309 |
| 0.58 | 3680 | 2.2 | 1558 | 65000 | A804_1558 S1 M1SD6 | 311 | A804_1558 P71 BN71B6 | 312 |
| 0.67 | 3165 | 2.5 | 1340 | 65000 | A804_1340 S1 M1SD6 | 311 | A804_1340 P71 BN71B6 | 312 |
| 0.80 | 2642 | 1.9 | 1715 | 50000 | | | A704_1715 P71 BN71A4 | 309 |
| 0.87 | 2439 | 2.1 | 1583 | 50000 | | | A704_1583 P71 BN71A4 | 309 |
| 0.89 | 2400 | 3.3 | 1558 | 65000 | | | A804_1558 P71 BN71A4 | 312 |
| 1.0 | 2073 | 2.4 | 1346 | 50000 | | | A704_1346 P71 BN71A4 | 309 |
| 1.1 | 1914 | 2.6 | 1242 | 50000 | | | A704_1242 P71 BN71A4 | 309 |
| 1.2 | 1789 | 2.8 | 1161 | 50000 | | | A704_1161 P71 BN71A4 | 309 |
| 1.3 | 1652 | 3.0 | 1072 | 50000 | | | A704_1072 P71 BN71A4 | 309 |
| 1.5 | 1427 | 3.5 | 926.5 | 50000 | | | A704_926.5 P71 BN71A4 | 309 |
| 1.8 | 1199 | 1.3 | 778.2 | 20000 | | | A504_778.2 P71 BN71A4 | 297 |
| 1.8 | 1164 | 2.4 | 755.4 | 30000 | | | A604_755.4 P71 BN71A4 | 305 |
| 1.9 | 1091 | 1.4 | 707.9 | 20000 | | | A504_707.9 P71 BN71A4 | 297 |
| 2.0 | 1074 | 2.6 | 697.3 | 30000 | | | A604_697.3 P71 BN71A4 | 305 |
| 2.2 | 978 | 2.9 | 634.6 | 30000 | | | A604_634.6 P71 BN71A4 | 305 |
| 2.2 | 972 | 1.5 | 631.2 | 20000 | | | A504_631.2 P71 BN71A4 | 297 |
| 2.4 | 902 | 3.1 | 585.8 | 30000 | | | A604_585.8 P71 BN71A4 | 305 |
| 2.4 | 885 | 1.7 | 574.2 | 20000 | | | A504_574.2 P71 BN71A4 | 297 |
| 2.5 | 835 | 3.4 | 542.0 | 30000 | | | A604_542.0 P71 BN71A4 | 305 |

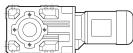






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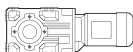




| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 2.6 | 816 | 1.8 | 529.5 | 20000 | | | A504_529.5 P71 BN71A4 | 297 |
| 2.9 | 742 | 2.0 | 481.6 | 20000 | | | A504_481.6 P71 BN71A4 | 297 |
| 3.1 | 688 | 2.2 | 446.8 | 20000 | | | A504_446.8 P71 BN71A4 | 297 |
| 3.4 | 626 | 2.4 | 406.4 | 20000 | | | A504_406.4 P71 BN71A4 | 297 |
| 3.6 | 611 | 1.4 | 376.8 | 15000 | A413_376.8 S05 M05C4 | 292 | A413_376.8 P71 BN71A4 | 293 |
| 3.8 | 563 | 2.7 | 365.6 | 20000 | | | A504_365.6 P71 BN71A4 | 297 |
| 3.9 | 550 | 0.9 | 339.3 | 12000 | A353_339.3 S05 M05C4 | 288 | A353_339.3 P71 BN71A4 | 289 |
| 4.1 | 526 | 1.6 | 324.2 | 15000 | A413_324.2 S05 M05C4 | 292 | A413_324.2 P71 BN71A4 | 293 |
| 4.1 | 512 | 2.9 | 332.6 | 20000 | | | A504_332.6 P71 BN71A4 | 297 |
| 4.4 | 495 | 1.2 | 305.4 | 12000 | A353_305.4 S05 M05C4 | 288 | A353_305.4 P71 BN71A4 | 289 |
| 4.7 | 460 | 1.8 | 291.7 | 15000 | A413_291.7 S05 M05C4 | 292 | A413_291.7 P71 BN71A4 | 293 |
| 4.8 | 442 | 3.4 | 286.8 | 20000 | | | A504_286.8 P71 BN71A4 | 297 |
| 4.9 | 440 | 0.9 | 271.5 | 9600 | A303_271.5 S05 M05C4 | 284 | A303_271.5 P71 BN71A4 | 285 |
| 5.0 | 439 | 1.4 | 270.7 | 12000 | A353_270.7 S05 M05C4 | 288 | A353_270.7 P71 BN71A4 | 289 |
| 5.1 | 426 | 2.0 | 262.5 | 15000 | A413_262.5 S05 M05C4 | 292 | A413_262.5 P71 BN71A4 | 293 |
| 5.4 | 403 | 1.5 | 248.1 | 12000 | A353_248.1 S05 M05C4 | 288 | A353_248.1 P71 BN71A4 | 289 |
| 5.6 | 385 | 1.0 | 244.3 | 9600 | A303_244.3 S05 M05C4 | 284 | A303_244.3 P71 BN71A4 | 285 |
| 5.7 | 379 | 2.2 | 240.6 | 15000 | A413_240.6 S05 M05C4 | 292 | A413_240.6 P71 BN71A4 | 293 |
| 6.0 | 362 | 1.7 | 223.2 | 12000 | A353_223.2 S05 M05C4 | 288 | A353_223.2 P71 BN71A4 | 289 |
| 6.2 | 353 | 2.4 | 217.4 | 15000 | A413_217.4 S05 M05C4 | 292 | A413_217.4 P71 BN71A4 | 293 |
| 6.2 | 351 | 1.0 | 216.6 | 9600 | A303_216.6 S05 M05C4 | 284 | A303_216.6 P71 BN71A4 | 285 |
| 6.6 | 327 | 1.8 | 201.8 | 12000 | A353_201.8 S05 M05C4 | 288 | A353_201.8 P71 BN71A4 | 289 |
| 7.0 | 313 | 1.1 | 198.5 | 9600 | A303_198.5 S05 M05C4 | 284 | A303_198.5 P71 BN71A4 | 285 |
| 7.0 | 311 | 2.7 | 197.5 | 15000 | A413_197.5 S05 M05C4 | 292 | A413_197.5 P71 BN71A4 | 293 |
| 7.1 | 306 | 2.0 | 188.3 | 12000 | A353_188.3 S05 M05C4 | 288 | A353_188.3 P71 BN71A4 | 289 |
| 7.3 | 299 | 2.8 | 184.4 | 15000 | A413_184.4 S05 M05C4 | 292 | A413_184.4 P71 BN71A4 | 293 |
| 7.5 | 290 | 1.2 | 178.5 | 9600 | A303_178.5 S05 M05C4 | 284 | A303_178.5 P71 BN71A4 | 285 |
| 7.8 | 279 | 2.2 | 171.8 | 12000 | A353_171.8 S05 M05C4 | 288 | A353_171.8 P71 BN71A4 | 289 |
| 8.4 | 257 | 0.9 | 163.4 | 6200 | A203_163.4 S05 M05C4 | 280 | A203_163.4 P71 BN71A4 | 281 |
| 8.5 | 254 | 1.3 | 161.4 | 9600 | A303_161.4 S05 M05C4 | 284 | A303_161.4 P71 BN71A4 | 285 |
| 8.9 | 244 | 1.4 | 150.7 | 9600 | A303_150.7 S05 M05C4 | 284 | A303_150.7 P71 BN71A4 | 285 |
| 8.9 | 244 | 2.5 | 150.6 | 12000 | A353_150.6 S05 M05C4 | 288 | A353_150.6 P71 BN71A4 | 289 |
| 9.2 | 237 | 1.0 | 146.1 | 6200 | A203_146.1 S05 M05C4 | 280 | A203_146.1 P71 BN71A4 | 281 |
| 9.8 | 221 | 2.6 | 136.3 | 12000 | A353_136.3 S05 M05C4 | 288 | A353_136.3 P71 BN71A4 | 289 |
| 10.0 | 216 | 1.5 | 137.4 | 9600 | A303_137.4 S05 M05C4 | 284 | A303_137.4 P71 BN71A4 | 285 |
| 10.7 | 203 | 1.1 | 129.1 | 6200 | A203_129.1 S05 M05C4 | 280 | A203_129.1 P71 BN71A4 | 281 |
| 11.1 | 196 | 1.1 | 120.5 | 6200 | A203_120.5 S05 M05C4 | 280 | A203_120.5 P71 BN71A4 | 281 |
| 11.1 | 195 | 1.5 | 120.5 | 9600 | A303_120.5 S05 M05C4 | 284 | A303_120.5 P71 BN71A4 | 285 |
| 11.5 | 190 | 3.0 | 116.9 | 12000 | A353_116.9 S05 M05C4 | 288 | A353_116.9 P71 BN71A4 | 289 |
| 12.6 | 172 | 1.2 | 109.2 | 6200 | A203_109.2 S05 M05C4 | 280 | A203_109.2 P71 BN71A4 | 281 |
| 12.7 | 172 | 1.7 | 109.1 | 9600 | A303_109.1 S05 M05C4 | 284 | A303_109.1 P71 BN71A4 | 285 |
| 12.7 | 171 | 3.1 | 105.5 | 12000 | A353_105.5 S05 M05C4 | 288 | A353_105.5 P71 BN71A4 | 289 |
| 14.2 | 159 | 1.9 | 97.5 | 9600 | | | A302_97.5 P71 BN71A4 | 285 |
| 14.4 | 156 | 3.5 | 95.6 | 12000 | | | A352_95.6 P71 BN71A4 | 289 |
| 14.5 | 155 | 1.3 | 92.3 | 6200 | A202_92.3 S05 M05C4 | 280 | A202_92.3 P71 BN71A4 | 281 |
| 15.9 | 141 | 2.3 | 86.7 | 9600 | | | A302_86.7 P71 BN71A4 | 285 |
| 16.8 | 134 | 1.6 | 79.9 | 6200 | A202_79.9 S05 M05C4 | 280 | A202_79.9 P71 BN71A4 | 281 |
| 17.5 | 128 | 1.2 | 76.4 | 5500 | A102_76.4 S05 M05C4 | 276 | A102_76.4 P71 BN71A4 | 277 |
| 18.0 | 125 | 2.8 | 76.5 | 9600 | | | A302_76.5 P71 BN71A4 | 285 |
| 19.4 | 116 | 1.8 | 71.0 | 6200 | A202_71.0 S05 M05C4 | 280 | A202_71.0 P71 BN71A4 | 281 |
| 20.3 | 110 | 0.9 | 65.9 | 3610 | A052_65.9 S05 M05C4 | 273 | A052_65.9 P71 BN71A4 | 273 |

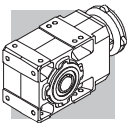


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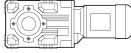



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 20.3 | 110 | 1.4 | 65.9 | 5500 | A102_65.9 S05 M05C4 | 276 | A102_65.9 P71 BN71A4 | 277 |
| 21.2 | 106 | 2.3 | 63.1 | 6200 | A202_63.1 S05 M05C4 | 280 | A202_63.1 P71 BN71A4 | 281 |
| 22.9 | 98 | 1.0 | 58.6 | 3540 | A052_58.6 S05 M05C4 | 273 | A052_58.6 P71 BN71A4 | 273 |
| 23.5 | 95 | 1.6 | 58.6 | 5500 | A102_58.6 S05 M05C4 | 276 | A102_58.6 P71 BN71A4 | 277 |
| 25.0 | 90 | 2.8 | 53.7 | 6200 | A202_53.7 S05 M05C4 | 280 | A202_53.7 P71 BN71A4 | 281 |
| 26.1 | 86 | 1.2 | 51.3 | 3450 | A052_51.3 S05 M05C4 | 273 | A052_51.3 P71 BN71A4 | 273 |
| 26.1 | 86 | 1.7 | 51.3 | 5500 | A102_51.3 S05 M05C4 | 276 | A102_51.3 P71 BN71A4 | 277 |
| 28.6 | 79 | 3.2 | 48.3 | 6180 | A202_48.3 S05 M05C4 | 280 | A202_48.3 P71 BN71A4 | 281 |
| 29.5 | 76 | 1.3 | 45.4 | 3370 | A052_45.4 S05 M05C4 | 273 | A052_45.4 P71 BN71A4 | 273 |
| 29.5 | 76 | 2.0 | 45.4 | 5500 | A102_45.4 S05 M05C4 | 276 | A102_45.4 P71 BN71A4 | 277 |
| 33 | 68 | 1.5 | 40.9 | 3290 | A052_40.9 S05 M05C4 | 273 | A052_40.9 P71 BN71A4 | 273 |
| 34 | 66 | 2.3 | 40.9 | 5500 | A102_40.9 S05 M05C4 | 276 | A102_40.9 P71 BN71A4 | 277 |
| 38 | 59 | 1.7 | 35.1 | 3180 | A052_35.1 S05 M05C4 | 273 | A052_35.1 P71 BN71A4 | 273 |
| 38 | 59 | 2.5 | 35.1 | 5260 | A102_35.1 S05 M05C4 | 276 | A102_35.1 P71 BN71A4 | 277 |
| 42 | 54 | 1.9 | 32.2 | 3120 | A052_32.2 S05 M05C4 | 273 | A052_32.2 P71 BN71A4 | 273 |
| 43 | 52 | 2.9 | 32.2 | 5500 | A102_32.2 S05 M05C4 | 276 | A102_32.2 P71 BN71A4 | 277 |
| 47 | 48 | 2.1 | 28.6 | 3030 | A052_28.6 S05 M05C4 | 273 | A052_28.6 P71 BN71A4 | 273 |
| 47 | 48 | 3.1 | 28.6 | 4970 | A102_28.6 S05 M05C4 | 276 | A102_28.6 P71 BN71A4 | 277 |
| 53 | 43 | 2.3 | 25.5 | 2940 | A052_25.5 S05 M05C4 | 273 | A052_25.5 P71 BN71A4 | 273 |
| 56 | 40 | 2.5 | 23.8 | 2890 | A052_23.8 S05 M05C4 | 273 | A052_23.8 P71 BN71A4 | 273 |
| 63 | 36 | 2.8 | 21.4 | 2810 | A052_21.4 S05 M05C4 | 273 | A052_21.4 P71 BN71A4 | 273 |
| 72 | 31 | 3.2 | 18.6 | 2710 | A052_18.6 S05 M05C4 | 273 | A052_18.6 P71 BN71A4 | 273 |
| 84 | 27 | 3.7 | 16.4 | 2620 | A052_16.4 S05 M05C4 | 273 | A052_16.4 P71 BN71A4 | 273 |
| 99 | 23 | 4.4 | 13.9 | 2500 | A052_13.9 S05 M05C4 | 273 | A052_13.9 P71 BN71A4 | 273 |
| 112 | 20 | 5.0 | 12.3 | 2420 | A052_12.3 S05 M05C4 | 273 | A052_12.3 P71 BN71A4 | 273 |
| 131 | 17.2 | 5.8 | 10.6 | 2310 | A052_10.6 S05 M05C4 | 273 | A052_10.6 P71 BN71A4 | 273 |
| 144 | 15.7 | 6.4 | 9.6 | 2260 | A052_9.6 S05 M05C4 | 273 | A052_9.6 P71 BN71A4 | 273 |
| 162 | 13.9 | 7.2 | 8.5 | 2180 | A052_8.5 S05 M05C4 | 273 | A052_8.5 P71 BN71A4 | 273 |
| 191 | 11.7 | 8.5 | 7.2 | 2070 | A052_7.2 S05 M05C4 | 273 | A052_7.2 P71 BN71A4 | 273 |
| 218 | 10.3 | 9.7 | 6.3 | 1990 | A052_6.3 S05 M05C4 | 273 | A052_6.3 P71 BN71A4 | 273 |
| 252 | 8.9 | 10.7 | 5.5 | 1900 | A052_5.5 S05 M05C4 | 273 | A052_5.5 P71 BN71A4 | 273 |
| 285 | 7.9 | 12.1 | 9.6 | 1820 | A052_9.6 S05 M05B2 | 273 | A052_9.6 P63 BN63B2 | 273 |
| 322 | 7.0 | 12.9 | 8.5 | 1750 | A052_8.5 S05 M05B2 | 273 | A052_8.5 P63 BN63B2 | 273 |
| 380 | 5.9 | 14.4 | 7.2 | 1660 | A052_7.2 S05 M05B2 | 273 | A052_7.2 P63 BN63B2 | 273 |
| 433 | 5.2 | 15.4 | 6.3 | 1590 | A052_6.3 S05 M05B2 | 273 | A052_6.3 P63 BN63B2 | 273 |
| 501 | 4.5 | 16.7 | 5.5 | 1520 | A052_5.5 S05 M05B2 | 273 | A052_5.5 P63 BN63B2 | 273 |

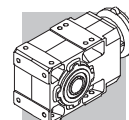
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| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 0.56 | 5644 | 2.5 | 1632 | 75000 | A904_1632 S1 M1LA6 | 314 | A904_1632 P80 BN80A6 | 315 |
| 0.63 | 4972 | 1.6 | 1438 | 65000 | A804_1438 S1 M1LA6 | 311 | A804_1438 P80 BN80A6 | 312 |
| 0.74 | 4226 | 3.3 | 1222 | 75000 | A904_1222 S1 M1LA6 | 314 | A904_1222 P80 BN80A6 | 315 |
| 0.80 | 3939 | 1.3 | 1715 | 50000 | A704_1715 S1 M1SD4 | 308 | A704_1715 P71 BN71B4 | 309 |
| 0.87 | 3636 | 1.4 | 1583 | 50000 | A704_1583 S1 M1SD4 | 308 | A704_1583 P71 BN71B4 | 309 |
| 0.88 | 3577 | 2.2 | 1558 | 65000 | A804_1558 S1 M1SD4 | 311 | A804_1558 P71 BN71B4 | 312 |
| 0.95 | 3302 | 2.4 | 1438 | 65000 | A804_1438 S1 M1SD4 | 311 | A804_1438 P71 BN71B4 | 312 |
| 1.0 | 3091 | 1.6 | 1346 | 50000 | A704_1346 S1 M1SD4 | 308 | A704_1346 P71 BN71B4 | 309 |

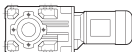





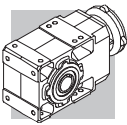
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| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 1.0 | 3077 | 2.6 | 1340 | 65000 | A804_1340 S1 M1SD4 | 311 | A804_1340 P71 BN71B4 | 312 |
| 1.1 | 2853 | 1.8 | 1242 | 50000 | A704_1242 S1 M1SD4 | 308 | A704_1242 P71 BN71B4 | 309 |
| 1.1 | 2841 | 2.8 | 1237 | 65000 | A804_1237 S1 M1SD4 | 311 | A804_1237 P71 BN71B4 | 312 |
| 1.2 | 2668 | 1.9 | 1161 | 50000 | A704_1161 S1 M1SD4 | 308 | A704_1161 P71 BN71B4 | 309 |
| 1.3 | 2492 | 3.2 | 1085 | 65000 | A804_1085 S1 M1SD4 | 311 | A804_1085 P71 BN71B4 | 312 |
| 1.3 | 2462 | 2.0 | 1072 | 50000 | A704_1072 S1 M1SD4 | 308 | A704_1072 P71 BN71B4 | 309 |
| 1.4 | 2300 | 3.5 | 1001 | 65000 | A804_1001 S1 M1SD4 | 311 | A804_1001 P71 BN71B4 | 312 |
| 1.5 | 2128 | 2.3 | 926.5 | 50000 | A704_926.5 S1 M1SD4 | 308 | A704_926.5 P71 BN71B4 | 309 |
| 1.6 | 1964 | 2.5 | 855.3 | 50000 | A704_855.3 S1 M1SD4 | 308 | A704_855.3 P71 BN71B4 | 309 |
| 1.8 | 1754 | 2.8 | 763.9 | 50000 | A704_763.9 S1 M1SD4 | 308 | A704_763.9 P71 BN71B4 | 309 |
| 1.8 | 1735 | 1.6 | 755.4 | 30000 | A604_755.4 S1 M1SD4 | 304 | A604_755.4 P71 BN71B4 | 305 |
| 1.9 | 1626 | 0.9 | 707.9 | 20000 | A504_707.9 S1 M1SD4 | 296 | A504_707.9 P71 BN71B4 | 297 |
| 1.9 | 1619 | 3.1 | 705.1 | 50000 | A704_705.1 S1 M1SD4 | 308 | A704_705.1 P71 BN71B4 | 309 |
| 2.0 | 1601 | 1.7 | 697.3 | 30000 | A604_697.3 S1 M1SD4 | 304 | A604_697.3 P71 BN71B4 | 305 |
| 2.1 | 1481 | 3.4 | 644.6 | 50000 | A704_644.6 S1 M1SD4 | 308 | A704_644.6 P71 BN71B4 | 309 |
| 2.2 | 1457 | 1.9 | 634.6 | 30000 | A604_634.6 S1 M1SD4 | 304 | A604_634.6 P71 BN71B4 | 305 |
| 2.2 | 1450 | 1.0 | 631.2 | 20000 | A504_631.2 S1 M1SD4 | 296 | A504_631.2 P71 BN71B4 | 297 |
| 2.3 | 1345 | 2.1 | 585.8 | 30000 | A604_585.8 S1 M1SD4 | 304 | A604_585.8 P71 BN71B4 | 305 |
| 2.4 | 1319 | 1.1 | 574.2 | 20000 | A504_574.2 S1 M1SD4 | 296 | A504_574.2 P71 BN71B4 | 297 |
| 2.5 | 1245 | 2.2 | 542.0 | 30000 | A604_542.0 S1 M1SD4 | 304 | A604_542.0 P71 BN71B4 | 305 |
| 2.6 | 1216 | 1.2 | 529.5 | 20000 | A504_529.5 S1 M1SD4 | 296 | A504_529.5 P71 BN71B4 | 297 |
| 2.7 | 1149 | 2.4 | 500.3 | 30000 | A604_500.3 S1 M1SD4 | 304 | A604_500.3 P71 BN71B4 | 305 |
| 2.8 | 1106 | 1.4 | 481.6 | 20000 | A504_481.6 S1 M1SD4 | 296 | A504_481.6 P71 BN71B4 | 297 |
| 3.1 | 1026 | 1.5 | 446.8 | 20000 | A504_446.8 S1 M1SD4 | 296 | A504_446.8 P71 BN71B4 | 297 |
| 3.1 | 1007 | 2.8 | 438.4 | 30000 | A604_438.4 S1 M1SD4 | 304 | A604_438.4 P71 BN71B4 | 305 |
| 3.4 | 933 | 1.6 | 406.4 | 20000 | A504_406.4 S1 M1SD4 | 296 | A504_406.4 P71 BN71B4 | 297 |
| 3.4 | 929 | 3.0 | 404.7 | 30000 | A604_404.7 S1 M1SD4 | 304 | A604_404.7 P71 BN71B4 | 305 |
| 3.6 | 885 | 1.0 | 376.8 | 15000 | A413_376.8 S1 M1SD4 | 292 | A413_376.8 P71 BN71B4 | 293 |
| 3.7 | 840 | 1.8 | 365.6 | 20000 | A504_365.6 S1 M1SD4 | 296 | A504_365.6 P71 BN71B4 | 297 |
| 3.9 | 807 | 3.5 | 351.2 | 30000 | A604_351.2 S1 M1SD4 | 304 | A604_351.2 P71 BN71B4 | 305 |
| 4.1 | 764 | 2.0 | 332.6 | 20000 | A504_332.6 S1 M1SD4 | 296 | A504_332.6 P71 BN71B4 | 297 |
| 4.2 | 761 | 1.1 | 324.2 | 15000 | A413_324.2 S1 M1SD4 | 292 | A413_324.2 P71 BN71B4 | 293 |
| 4.7 | 685 | 1.2 | 291.7 | 15000 | A413_291.7 S1 M1SD4 | 292 | A413_291.7 P71 BN71B4 | 293 |
| 4.8 | 659 | 2.3 | 286.8 | 20000 | A504_286.8 S1 M1SD4 | 296 | A504_286.8 P71 BN71B4 | 297 |
| 5.1 | 636 | 0.9 | 270.7 | 12000 | A353_270.7 S1 M1SD4 | 288 | A353_270.7 P71 BN71B4 | 289 |
| 5.2 | 616 | 1.4 | 262.5 | 15000 | A413_262.5 S1 M1SD4 | 292 | A413_262.5 P71 BN71B4 | 293 |
| 5.3 | 599 | 2.5 | 260.9 | 20000 | A504_260.9 S1 M1SD4 | 296 | A504_260.9 P71 BN71B4 | 297 |
| 5.5 | 583 | 1.0 | 248.1 | 12000 | A353_248.1 S1 M1SD4 | 288 | A353_248.1 P71 BN71B4 | 289 |
| 5.7 | 565 | 1.5 | 240.6 | 15000 | A413_240.6 S1 M1SD4 | 292 | A413_240.6 P71 BN71B4 | 293 |
| 5.9 | 533 | 2.8 | 232.0 | 20000 | A504_232.0 S1 M1SD4 | 296 | A504_232.0 P71 BN71B4 | 297 |
| 6.1 | 524 | 1.1 | 223.2 | 12000 | A353_223.2 S1 M1SD4 | 288 | A353_223.2 P71 BN71B4 | 289 |
| 6.3 | 511 | 1.7 | 217.4 | 15000 | A413_217.4 S1 M1SD4 | 292 | A413_217.4 P71 BN71B4 | 293 |
| 6.5 | 485 | 3.1 | 211.0 | 20000 | A504_211.0 S1 M1SD4 | 296 | A504_211.0 P71 BN71B4 | 297 |
| 6.8 | 474 | 1.3 | 201.8 | 12000 | A353_201.8 S1 M1SD4 | 288 | A353_201.8 P71 BN71B4 | 289 |
| 6.9 | 464 | 1.8 | 197.5 | 15000 | A413_197.5 S1 M1SD4 | 292 | A413_197.5 P71 BN71B4 | 293 |
| 7.2 | 448 | 3.4 | 190.6 | 20000 | A503_190.6 S1 M1SD4 | 296 | A503_190.6 P71 BN71B4 | 297 |
| 7.3 | 442 | 1.4 | 188.3 | 12000 | A353_188.3 S1 M1SD4 | 288 | A353_188.3 P71 BN71B4 | 289 |
| 7.4 | 433 | 2.0 | 184.4 | 15000 | A413_184.4 S1 M1SD4 | 292 | A413_184.4 P71 BN71B4 | 293 |
| 8.0 | 403 | 1.5 | 171.8 | 12000 | A353_171.8 S1 M1SD4 | 288 | A353_171.8 P71 BN71B4 | 289 |
| 9.1 | 354 | 0.9 | 150.7 | 9600 | A303_150.7 S1 M1SD4 | 284 | A303_150.7 P71 BN71B4 | 285 |
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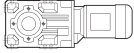





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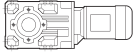



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 9.3 | 345 | 2.5 | 146.9 | 15000 | A413_146.9 S1 M1SD4 | 292 | A413_146.9 P71 BN71B4 | 293 |
| 10.0 | 323 | 1.0 | 137.4 | 9600 | A303_137.4 S1 M1SD4 | 284 | A303_137.4 P71 BN71B4 | 285 |
| 10.0 | 320 | 1.8 | 136.3 | 12000 | A353_136.3 S1 M1SD4 | 288 | A353_136.3 P71 BN71B4 | 289 |
| 11.4 | 283 | 1.1 | 120.5 | 9600 | A303_120.5 S1 M1SD4 | 284 | A303_120.5 P71 BN71B4 | 285 |
| 11.7 | 275 | 2.0 | 116.9 | 12000 | A353_116.9 S1 M1SD4 | 288 | A353_116.9 P71 BN71B4 | 289 |
| 11.8 | 272 | 3.1 | 115.9 | 15000 | A413_115.9 S1 M1SD4 | 292 | A413_115.9 P71 BN71B4 | 293 |
| 12.6 | 256 | 1.2 | 109.1 | 9600 | A303_109.1 S1 M1SD4 | 284 | A303_109.1 P71 BN71B4 | 285 |
| 13.0 | 248 | 2.1 | 105.5 | 12000 | A353_105.5 S1 M1SD4 | 288 | A353_105.5 P71 BN71B4 | 289 |
| 14.1 | 237 | 1.3 | 97.5 | 9600 | | | A302_97.5 P71 BN71B4 | 285 |
| 14.3 | 232 | 2.3 | 95.6 | 12000 | A352_95.6 S1 M1SD4 | 288 | A352_95.6 P71 BN71B4 | 289 |
| 15.8 | 210 | 1.5 | 86.7 | 9600 | | | A302_86.7 P71 BN71B4 | 285 |
| 16.6 | 200 | 3.0 | 82.5 | 12000 | A352_82.5 S1 M1SD4 | 288 | A352_82.5 P71 BN71B4 | 289 |
| 17.2 | 194 | 1.1 | 79.9 | 6200 | | | A202_79.9 P71 BN71B4 | 281 |
| 17.9 | 186 | 1.9 | 76.5 | 9600 | A302_76.5 S1 M1SD4 | 284 | A302_76.5 P71 BN71B4 | 285 |
| 18.4 | 180 | 3.3 | 74.3 | 12000 | A352_74.3 S1 M1SD4 | 288 | A352_74.3 P71 BN71B4 | 289 |
| 19.3 | 172 | 1.2 | 71.0 | 6200 | | | A202_71.0 P71 BN71B4 | 281 |
| 20.7 | 160 | 2.4 | 66.0 | 9350 | A302_66.0 S1 M1SD4 | 284 | A302_66.0 P71 BN71B4 | 285 |
| 20.8 | 160 | 0.9 | 65.9 | 5500 | | | A102_65.9 P71 BN71B4 | 277 |
| 21.7 | 153 | 1.6 | 63.1 | 6200 | A202_63.1 S1 M1SD4 | 280 | A202_63.1 P71 BN71B4 | 281 |
| 23.1 | 144 | 2.8 | 59.4 | 9080 | A302_59.4 S1 M1SD4 | 284 | A302_59.4 P71 BN71B4 | 285 |
| 23.4 | 142 | 1.1 | 58.6 | 5500 | | | A102_58.6 P71 BN71B4 | 277 |
| 25.5 | 130 | 1.9 | 53.7 | 6090 | A202_53.7 S1 M1SD4 | 280 | A202_53.7 P71 BN71B4 | 281 |
| 26.0 | 128 | 3.2 | 52.7 | 8790 | A302_52.7 S1 M1SD4 | 284 | A302_52.7 P71 BN71B4 | 285 |
| 26.7 | 124 | 1.2 | 51.3 | 5490 | A102_51.3 S1 M1SD4 | 276 | A102_51.3 P71 BN71B4 | 277 |
| 28.4 | 117 | 2.1 | 48.3 | 5940 | A202_48.3 S1 M1SD4 | 280 | A202_48.3 P71 BN71B4 | 281 |
| 28.4 | 117 | 3.5 | 48.3 | 8580 | A302_48.3 S1 M1SD4 | 284 | A302_48.3 P71 BN71B4 | 285 |
| 30 | 110 | 0.9 | 45.4 | 3060 | A052_45.4 S1 M1SD4 | 273 | A052_45.4 P71 BN71B4 | 273 |
| 30 | 110 | 1.4 | 45.4 | 5350 | A102_45.4 S1 M1SD4 | 276 | A102_45.4 P71 BN71B4 | 277 |
| 32 | 105 | 2.4 | 43.2 | 5780 | A202_43.2 S1 M1SD4 | 280 | A202_43.2 P71 BN71B4 | 281 |
| 34 | 99 | 1.0 | 40.9 | 3020 | A052_40.9 S1 M1SD4 | 273 | A052_40.9 P71 BN71B4 | 273 |
| 34 | 99 | 1.5 | 40.9 | 5500 | A102_40.9 S1 M1SD4 | 276 | A102_40.9 P71 BN71B4 | 277 |
| 35 | 96 | 2.6 | 39.6 | 5650 | A202_39.6 S1 M1SD4 | 280 | A202_39.6 P71 BN71B4 | 281 |
| 39 | 86 | 2.9 | 35.4 | 5480 | A202_35.4 S1 M1SD4 | 280 | A202_35.4 P71 BN71B4 | 281 |
| 39 | 85 | 1.2 | 35.1 | 2950 | A052_35.1 S1 M1SD4 | 273 | A052_35.1 P71 BN71B4 | 273 |
| 39 | 85 | 1.8 | 35.1 | 5040 | A102_35.1 S1 M1SD4 | 276 | A102_35.1 P71 BN71B4 | 277 |
| 43 | 78 | 1.3 | 32.2 | 2900 | A052_32.2 S1 M1SD4 | 273 | A052_32.2 P71 BN71B4 | 273 |
| 43 | 78 | 1.9 | 32.2 | 5500 | A102_32.2 S1 M1SD4 | 276 | A102_32.2 P71 BN71B4 | 277 |
| 44 | 76 | 3.3 | 31.3 | 5310 | A202_31.3 S1 M1SD4 | 280 | A202_31.3 P71 BN71B4 | 281 |
| 47 | 71 | 3.5 | 29.2 | 5210 | A202_29.2 S1 M1SD4 | 280 | A202_29.2 P71 BN71B4 | 281 |
| 48 | 69 | 1.4 | 28.6 | 2840 | A052_28.6 S1 M1SD4 | 273 | A052_28.6 P71 BN71B4 | 273 |
| 48 | 69 | 2.2 | 28.6 | 4790 | A102_28.6 S1 M1SD4 | 276 | A102_28.6 P71 BN71B4 | 277 |
| 54 | 62 | 1.6 | 25.5 | 2770 | A052_25.5 S1 M1SD4 | 273 | A052_25.5 P71 BN71B4 | 273 |
| 54 | 62 | 2.4 | 25.5 | 5500 | A102_25.5 S1 M1SD4 | 276 | A102_25.5 P71 BN71B4 | 277 |
| 58 | 58 | 1.7 | 23.8 | 2730 | A052_23.8 S1 M1SD4 | 273 | A052_23.8 P71 BN71B4 | 273 |
| 58 | 58 | 2.6 | 23.8 | 4570 | A102_23.8 S1 M1SD4 | 276 | A102_23.8 P71 BN71B4 | 277 |
| 64 | 52 | 1.9 | 21.4 | 2670 | A052_21.4 S1 M1SD4 | 273 | A052_21.4 P71 BN71B4 | 273 |
| 64 | 52 | 2.9 | 21.4 | 5270 | A102_21.4 S1 M1SD4 | 276 | A102_21.4 P71 BN71B4 | 277 |
| 74 | 45 | 2.2 | 18.6 | 2590 | A052_18.6 S1 M1SD4 | 273 | A052_18.6 P71 BN71B4 | 273 |
| 74 | 45 | 3.3 | 18.6 | 4270 | A102_18.6 S1 M1SD4 | 276 | A102_18.6 P71 BN71B4 | 277 |
| 83 | 40 | 2.5 | 16.4 | 2510 | A052_16.4 S1 M1SD4 | 273 | A052_16.4 P71 BN71B4 | 273 |
| 98 | 34 | 3.0 | 13.9 | 2410 | A052_13.9 S1 M1SD4 | 273 | A052_13.9 P71 BN71B4 | 273 |

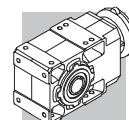


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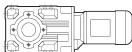




| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 111 | 30 | 3.3 | 12.3 | 2350 | A052_12.3 S1 M1SD4 | 273 | A052_12.3 P71 BN71B4 | 273 |
| 130 | 26 | 3.9 | 10.6 | 2240 | A052_10.6 S1 M1SD4 | 273 | A052_10.6 P71 BN71B4 | 273 |
| 142 | 23 | 4.3 | 9.6 | 2190 | A052_9.6 S1 M1SD4 | 273 | A052_9.6 P71 BN71B4 | 273 |
| 161 | 21 | 4.8 | 8.5 | 2120 | A052_8.5 S1 M1SD4 | 273 | A052_8.5 P71 BN71B4 | 273 |
| 190 | 17.5 | 5.7 | 7.2 | 2030 | A052_7.2 S1 M1SD4 | 273 | A052_7.2 P71 BN71B4 | 273 |
| 216 | 15.4 | 6.5 | 6.3 | 1950 | A052_6.3 S1 M1SD4 | 273 | A052_6.3 P71 BN71B4 | 273 |
| 228 | 14.6 | 6.8 | 12.3 | 1920 | A052_12.3 S05 M05C2 | 273 | A052_12.3 P71 BN71A2 | 273 |
| 251 | 13.3 | 7.2 | 5.5 | 1870 | A052_5.5 S1 M1SD4 | 273 | A052_5.5 P71 BN71B4 | 273 |
| 265 | 12.5 | 6.4 | 10.6 | 1830 | A052_10.6 S05 M05C2 | 273 | A052_10.6 P71 BN71A2 | 273 |
| 291 | 11.4 | 8.3 | 9.6 | 1790 | A052_9.6 S05 M05C2 | 273 | A052_9.6 P71 BN71A2 | 273 |
| 331 | 10.0 | 9.0 | 8.5 | 1720 | A052_8.5 S05 M05C2 | 273 | A052_8.5 P71 BN71A2 | 273 |
| 388 | 8.6 | 9.9 | 7.2 | 1640 | A052_7.2 S05 M05C2 | 273 | A052_7.2 P71 BN71A2 | 273 |
| 445 | 7.5 | 10.7 | 6.3 | 1570 | A052_6.3 S05 M05C2 | 273 | A052_6.3 P71 BN71A2 | 273 |
| 512 | 6.5 | 11.6 | 5.5 | 1500 | A052_5.5 S05 M05C2 | 273 | A052_5.5 P71 BN71A2 | 273 |

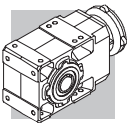
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| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|--|---|--|--|
| 0.56 | 8299 | 1.7 | 1632 | 75000 | A904_1632 S2 M2SA6 | 314 | A904_1632 P80 BN80B6 | 315 |
| 0.64 | 7310 | 1.1 | 1438 | 65000 | A804_1438 S2 M2SA6 | 311 | A804_1438 P80 BN80B6 | 312 |
| 0.75 | 6213 | 2.3 | 1222 | 75000 | A904_1222 S2 M2SA6 | 314 | A904_1222 P80 BN80B6 | 315 |
| 0.80 | 5813 | 0.9 | 1715 | 50000 | A704_1715 S1 M1LA4 | 308 | A704_1715 P80 BN80A4 | 309 |
| 0.85 | 5532 | 2.5 | 1632 | 75000 | A904_1632 S1 M1LA4 | 314 | A904_1632 P80 BN80A4 | 315 |
| 0.87 | 5365 | 0.9 | 1583 | 50000 | A704_1583 S1 M1LA4 | 308 | A704_1583 P80 BN80A4 | 309 |
| 0.89 | 5279 | 1.5 | 1558 | 65000 | A804_1558 S1 M1LA4 | 311 | A804_1558 P80 BN80A4 | 312 |
| 0.92 | 5070 | 2.8 | 1507 | 75000 | A904_1507 S1 M1LA4 | 314 | A904_1507 P80 BN80A4 | 315 |
| 0.96 | 4873 | 1.6 | 1438 | 65000 | A804_1438 S1 M1LA4 | 311 | A804_1438 P80 BN80A4 | 312 |
| 1.0 | 4561 | 1.1 | 1346 | 50000 | A704_1346 S1 M1LA4 | 308 | A704_1346 P80 BN80A4 | 309 |
| 1.0 | 4541 | 1.8 | 1340 | 65000 | A804_1340 S1 M1LA4 | 311 | A804_1340 P80 BN80A4 | 312 |
| 1.0 | 4455 | 3.1 | 1324 | 75000 | A904_1324 S1 M1LA4 | 314 | A904_1324 P80 BN80A4 | 315 |
| 1.1 | 4211 | 1.2 | 1242 | 50000 | A704_1242 S1 M1LA4 | 308 | A704_1242 P80 BN80A4 | 309 |
| 1.1 | 4192 | 1.9 | 1237 | 65000 | A804_1237 S1 M1LA4 | 311 | A804_1237 P80 BN80A4 | 312 |
| 1.1 | 4112 | 3.4 | 1222 | 75000 | A904_1222 S1 M1LA4 | 314 | A904_1222 P80 BN80A4 | 315 |
| 1.2 | 3937 | 1.3 | 1161 | 50000 | A704_1161 S1 M1LA4 | 308 | A704_1161 P80 BN80A4 | 309 |
| 1.3 | 3677 | 2.2 | 1085 | 65000 | A804_1085 S1 M1LA4 | 311 | A804_1085 P80 BN80A4 | 312 |
| 1.3 | 3634 | 1.4 | 1072 | 50000 | A704_1072 S1 M1LA4 | 308 | A704_1072 P80 BN80A4 | 309 |
| 1.4 | 3394 | 2.4 | 1001 | 65000 | A804_1001 S1 M1LA4 | 311 | A804_1001 P80 BN80A4 | 312 |
| 1.5 | 3140 | 1.6 | 926.5 | 50000 | A704_926.5 S1 M1LA4 | 308 | A704_926.5 P80 BN80A4 | 309 |
| 1.5 | 3046 | 2.6 | 898.7 | 65000 | A804_898.7 S1 M1LA4 | 311 | A804_898.7 P80 BN80A4 | 312 |
| 1.6 | 2899 | 1.7 | 855.3 | 50000 | A704_855.3 S1 M1LA4 | 308 | A704_855.3 P80 BN80A4 | 309 |
| 1.7 | 2811 | 2.8 | 829.5 | 65000 | A804_829.5 S1 M1LA4 | 311 | A804_829.5 P80 BN80A4 | 312 |
| 1.8 | 2589 | 1.9 | 763.9 | 50000 | A704_763.9 S1 M1LA4 | 308 | A704_763.9 P80 BN80A4 | 309 |
| 1.8 | 2583 | 3.1 | 762.1 | 65000 | A804_762.1 S1 M1LA4 | 311 | A804_762.1 P80 BN80A4 | 312 |
| 1.8 | 2560 | 1.1 | 755.4 | 30000 | A604_755.4 S1 M1LA4 | 304 | A604_755.4 P80 BN80A4 | 305 |
| 2.0 | 2390 | 2.1 | 705.1 | 50000 | A704_705.1 S1 M1LA4 | 308 | A704_705.1 P80 BN80A4 | 309 |
| 2.0 | 2384 | 3.4 | 703.5 | 65000 | A804_703.5 S1 M1LA4 | 311 | A804_703.5 P80 BN80A4 | 312 |
| 2.0 | 2363 | 1.2 | 697.3 | 30000 | A604_697.3 S1 M1LA4 | 304 | A604_697.3 P80 BN80A4 | 305 |
| 2.1 | 2185 | 2.3 | 644.6 | 50000 | A704_644.6 S1 M1LA4 | 308 | A704_644.6 P80 BN80A4 | 309 |

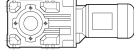





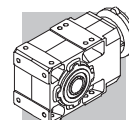
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| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 2.2 | 2151 | 1.3 | 634.6 | 30000 | A604_634.6 S1 M1LA4 | 304 | A604_634.6 P80 BN80A4 | 305 |
| 2.3 | 2017 | 2.5 | 595.0 | 50000 | A704_595.0 S1 M1LA4 | 308 | A704_595.0 P80 BN80A4 | 309 |
| 2.4 | 1985 | 1.4 | 585.8 | 30000 | A604_585.8 S1 M1LA4 | 304 | A604_585.8 P80 BN80A4 | 305 |
| 2.5 | 1837 | 1.5 | 542.0 | 30000 | A604_542.0 S1 M1LA4 | 304 | A604_542.0 P80 BN80A4 | 305 |
| 2.7 | 1747 | 2.9 | 515.4 | 50000 | A704_515.4 S1 M1LA4 | 308 | A704_515.4 P80 BN80A4 | 309 |
| 2.8 | 1696 | 1.7 | 500.3 | 30000 | A604_500.3 S1 M1LA4 | 304 | A604_500.3 P80 BN80A4 | 305 |
| 2.9 | 1632 | 0.9 | 481.6 | 20000 | A504_481.6 S1 M1LA4 | 296 | A504_481.6 P80 BN80A4 | 297 |
| 2.9 | 1612 | 3.1 | 475.8 | 50000 | A704_475.8 S1 M1LA4 | 308 | A704_475.8 P80 BN80A4 | 309 |
| 3.1 | 1514 | 1.0 | 446.8 | 20000 | A504_446.8 S1 M1LA4 | 296 | A504_446.8 P80 BN80A4 | 297 |
| 3.1 | 1486 | 1.9 | 438.4 | 30000 | A604_438.4 S1 M1LA4 | 304 | A604_438.4 P80 BN80A4 | 305 |
| 3.4 | 1378 | 1.1 | 406.4 | 20000 | A504_406.4 S1 M1LA4 | 296 | A504_406.4 P80 BN80A4 | 297 |
| 3.4 | 1372 | 2.0 | 404.7 | 30000 | A604_404.7 S1 M1LA4 | 304 | A604_404.7 P80 BN80A4 | 305 |
| 3.8 | 1239 | 1.2 | 365.6 | 20000 | A504_365.6 S1 M1LA4 | 296 | A504_365.6 P80 BN80A4 | 297 |
| 3.9 | 1190 | 2.4 | 351.2 | 30000 | A604_351.2 S1 M1LA4 | 304 | A604_351.2 P80 BN80A4 | 305 |
| 4.1 | 1127 | 1.3 | 332.6 | 20000 | A504_332.6 S1 M1LA4 | 296 | A504_332.6 P80 BN80A4 | 297 |
| 4.3 | 1099 | 2.5 | 324.2 | 30000 | A604_324.2 S1 M1LA4 | 304 | A604_324.2 P80 BN80A4 | 305 |
| 4.8 | 972 | 1.5 | 286.8 | 20000 | A504_286.8 S1 M1LA4 | 296 | A504_286.8 P80 BN80A4 | 297 |
| 4.8 | 970 | 2.9 | 286.3 | 30000 | A604_286.3 S1 M1LA4 | 304 | A604_286.3 P80 BN80A4 | 305 |
| 5.2 | 896 | 3.1 | 264.3 | 30000 | A604_264.3 S1 M1LA4 | 304 | A604_264.3 P80 BN80A4 | 305 |
| 5.3 | 910 | 0.9 | 262.5 | 15000 | A413_262.5 S1 M1LA4 | 292 | A413_262.5 P80 BN80A4 | 293 |
| 5.3 | 884 | 1.7 | 260.9 | 20000 | A504_260.9 S1 M1LA4 | 296 | A504_260.9 P80 BN80A4 | 297 |
| 5.7 | 834 | 1.0 | 240.6 | 15000 | A413_240.6 S1 M1LA4 | 292 | A413_240.6 P80 BN80A4 | 293 |
| 5.9 | 786 | 1.9 | 232.0 | 20000 | A504_232.0 S1 M1LA4 | 296 | A504_232.0 P80 BN80A4 | 297 |
| 6.3 | 753 | 1.1 | 217.4 | 15000 | A413_217.4 S1 M1LA4 | 292 | A413_217.4 P80 BN80A4 | 293 |
| 6.5 | 715 | 2.1 | 211.0 | 20000 | A504_211.0 S1 M1LA4 | 296 | A504_211.0 P80 BN80A4 | 297 |
| 7.0 | 685 | 1.2 | 197.5 | 15000 | A413_197.5 S1 M1LA4 | 292 | A413_197.5 P80 BN80A4 | 293 |
| 7.1 | 673 | 3.0 | 194.2 | 30000 | A553_194.2 S1 M1LA4 | 300 | A553_194.2 P80 BN80A4 | 301 |
| 7.2 | 660 | 2.3 | 190.6 | 20000 | A503_190.6 S1 M1LA4 | 296 | A503_190.6 P80 BN80A4 | 297 |
| 7.3 | 653 | 0.9 | 188.3 | 12000 | A353_188.3 S1 M1LA4 | 288 | A353_188.3 P80 BN80A4 | 289 |
| 7.5 | 639 | 1.3 | 184.4 | 15000 | A413_184.4 S1 M1LA4 | 292 | A413_184.4 P80 BN80A4 | 293 |
| 7.9 | 607 | 3.3 | 175.0 | 30000 | A553_175.0 S1 M1LA4 | 300 | A553_175.0 P80 BN80A4 | 301 |
| 8.0 | 601 | 2.5 | 173.4 | 20000 | A503_173.4 S1 M1LA4 | 296 | A503_173.4 P80 BN80A4 | 297 |
| 8.0 | 595 | 1.0 | 171.8 | 12000 | A353_171.8 S1 M1LA4 | 288 | A353_171.8 P80 BN80A4 | 289 |
| 9.0 | 532 | 2.8 | 154.6 | 20000 | A503_154.6 S1 M1LA4 | 296 | A503_154.6 P80 BN80A4 | 297 |
| 9.2 | 522 | 1.1 | 150.6 | 12000 | A353_150.6 S1 M1LA4 | 288 | A353_150.6 P80 BN80A4 | 289 |
| 9.4 | 509 | 1.7 | 146.9 | 15000 | A413_146.9 S1 M1LA4 | 292 | A413_146.9 P80 BN80A4 | 293 |
| 9.9 | 484 | 3.1 | 140.6 | 20000 | A503_140.6 S1 M1LA4 | 296 | A503_140.6 P80 BN80A4 | 297 |
| 10.1 | 472 | 1.2 | 136.3 | 12000 | A353_136.3 S1 M1LA4 | 288 | A353_136.3 P80 BN80A4 | 289 |
| 10.7 | 446 | 3.4 | 129.7 | 20000 | A503_129.7 S1 M1LA4 | 296 | A503_129.7 P80 BN80A4 | 297 |
| 11.8 | 405 | 1.4 | 116.9 | 12000 | A353_116.9 S1 M1LA4 | 288 | A353_116.9 P80 BN80A4 | 289 |
| 11.9 | 402 | 2.1 | 115.9 | 15000 | A413_115.9 S1 M1LA4 | 292 | A413_115.9 P80 BN80A4 | 293 |
| 13.1 | 366 | 1.4 | 105.5 | 12000 | A353_105.5 S1 M1LA4 | 288 | A353_105.5 P80 BN80A4 | 289 |
| 14.2 | 349 | 0.9 | 97.5 | 9600 | | | A302_97.5 P80 BN80A4 | 285 |
| 14.4 | 342 | 1.6 | 95.6 | 12000 | A352_95.6 S1 M1LA4 | 288 | A352_95.6 P80 BN80A4 | 289 |
| 14.9 | 321 | 2.5 | 92.8 | 15000 | A413_92.8 S1 M1LA4 | 292 | A413_92.8 P80 BN80A4 | 293 |
| 15.9 | 310 | 1.0 | 86.7 | 9420 | | | A302_86.7 P80 BN80A4 | 285 |
| 16.7 | 295 | 2.0 | 82.5 | 12000 | A352_82.5 S1 M1LA4 | 288 | A352_82.5 P80 BN80A4 | 289 |
| 17.4 | 284 | 3.0 | 79.2 | 15000 | A412_79.2 S1 M1LA4 | 292 | A412_79.2 P80 BN80A4 | 293 |
| 18.0 | 274 | 1.3 | 76.5 | 9180 | A302_76.5 S1 M1LA4 | 284 | A302_76.5 P80 BN80A4 | 285 |
| 18.6 | 266 | 2.3 | 74.3 | 12000 | A352_74.3 S1 M1LA4 | 288 | A352_74.3 P80 BN80A4 | 289 |
| 19.4 | 255 | 3.3 | 71.3 | 15000 | A412_71.3 S1 M1LA4 | 292 | A412_71.3 P80 BN80A4 | 293 |

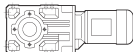





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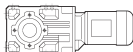



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 20.9 | 236 | 1.6 | 66.0 | 8880 | A302_66.0 S1 M1LA4 | 284 | A302_66.0 P80 BN80A4 | 285 |
| 21.0 | 236 | 2.5 | 65.8 | 12000 | A352_65.8 S1 M1LA4 | 288 | A352_65.8 P80 BN80A4 | 289 |
| 21.9 | 226 | 1.1 | 63.1 | 5840 | A202_63.1 S1 M1LA4 | 280 | A202_63.1 P80 BN80A4 | 281 |
| 22.9 | 216 | 2.8 | 60.4 | 12000 | A352_60.4 S1 M1LA4 | 288 | A352_60.4 P80 BN80A4 | 289 |
| 23.2 | 213 | 1.9 | 59.4 | 8660 | A302_59.4 S1 M1LA4 | 284 | A302_59.4 P80 BN80A4 | 285 |
| 25.4 | 194 | 3.1 | 54.3 | 12000 | A352_54.3 S1 M1LA4 | 288 | A352_54.3 P80 BN80A4 | 289 |
| 25.7 | 192 | 1.3 | 53.7 | 5670 | A202_53.7 S1 M1LA4 | 280 | A202_53.7 P80 BN80A4 | 281 |
| 26.2 | 189 | 2.2 | 52.7 | 8410 | A302_52.7 S1 M1LA4 | 284 | A302_52.7 P80 BN80A4 | 285 |
| 28.1 | 176 | 3.4 | 49.1 | 12000 | A352_49.1 S1 M1LA4 | 288 | A352_49.1 P80 BN80A4 | 289 |
| 28.6 | 173 | 1.4 | 48.3 | 5560 | A202_48.3 S1 M1LA4 | 280 | A202_48.3 P80 BN80A4 | 281 |
| 28.6 | 173 | 2.4 | 48.3 | 8230 | A302_48.3 S1 M1LA4 | 284 | A302_48.3 P80 BN80A4 | 285 |
| 30 | 163 | 0.9 | 45.4 | 4910 | A102_45.4 S1 M1LA4 | 276 | A102_45.4 P80 BN80A4 | 277 |
| 32 | 155 | 2.6 | 43.4 | 8010 | A302_43.4 S1 M1LA4 | 284 | A302_43.4 P80 BN80A4 | 285 |
| 32 | 155 | 1.6 | 43.2 | 5440 | A202_43.2 S1 M1LA4 | 280 | A202_43.2 P80 BN80A4 | 281 |
| 34 | 146 | 1.0 | 40.9 | 5500 | A102_40.9 S1 M1LA4 | 276 | A102_40.9 P80 BN80A4 | 277 |
| 35 | 142 | 1.8 | 39.6 | 5340 | A202_39.6 S1 M1LA4 | 280 | A202_39.6 P80 BN80A4 | 281 |
| 35 | 141 | 2.9 | 39.3 | 7800 | A302_39.3 S1 M1LA4 | 284 | A302_39.3 P80 BN80A4 | 285 |
| 38 | 131 | 3.1 | 36.6 | 7660 | A302_36.6 S1 M1LA4 | 284 | A302_36.6 P80 BN80A4 | 285 |
| 39 | 127 | 2.0 | 35.4 | 5200 | A202_35.4 S1 M1LA4 | 280 | A202_35.4 P80 BN80A4 | 281 |
| 39 | 126 | 1.2 | 35.1 | 4700 | A102_35.1 S1 M1LA4 | 276 | A102_35.1 P80 BN80A4 | 277 |
| 41 | 120 | 3.4 | 33.4 | 7480 | A302_33.4 S1 M1LA4 | 284 | A302_33.4 P80 BN80A4 | 285 |
| 43 | 115 | 1.3 | 32.2 | 5490 | A102_32.2 S1 M1LA4 | 276 | A102_32.2 P80 BN80A4 | 277 |
| 44 | 112 | 2.2 | 31.3 | 5060 | A202_31.3 S1 M1LA4 | 280 | A202_31.3 P80 BN80A4 | 281 |
| 47 | 105 | 2.4 | 29.2 | 4970 | A202_29.2 S1 M1LA4 | 280 | A202_29.2 P80 BN80A4 | 281 |
| 48 | 102 | 1.0 | 28.6 | 2550 | A052_28.6 S1 M1LA4 | 273 | A052_28.6 P80 BN80A4 | 273 |
| 48 | 102 | 1.5 | 28.6 | 4510 | A102_28.6 S1 M1LA4 | 276 | A102_28.6 P80 BN80A4 | 277 |
| 52 | 95 | 2.6 | 26.5 | 4850 | A202_26.5 S1 M1LA4 | 280 | A202_26.5 P80 BN80A4 | 281 |
| 54 | 91 | 1.1 | 25.5 | 2510 | A052_25.5 S1 M1LA4 | 273 | A052_25.5 P80 BN80A4 | 273 |
| 54 | 91 | 1.6 | 25.5 | 5230 | A102_25.5 S1 M1LA4 | 276 | A102_25.5 P80 BN80A4 | 277 |
| 58 | 85 | 1.2 | 23.8 | 2490 | A052_23.8 S1 M1LA4 | 273 | A052_23.8 P80 BN80A4 | 273 |
| 58 | 85 | 1.8 | 23.8 | 4330 | A102_23.8 S1 M1LA4 | 276 | A102_23.8 P80 BN80A4 | 277 |
| 60 | 83 | 3.0 | 23.1 | 4690 | A202_23.1 S1 M1LA4 | 280 | A202_23.1 P80 BN80A4 | 281 |
| 65 | 76 | 1.3 | 21.4 | 2450 | A052_21.4 S1 M1LA4 | 273 | A052_21.4 P80 BN80A4 | 273 |
| 65 | 76 | 2.0 | 21.4 | 5020 | A102_21.4 S1 M1LA4 | 276 | A102_21.4 P80 BN80A4 | 277 |
| 65 | 76 | 3.3 | 21.2 | 4590 | A202_21.2 S1 M1LA4 | 280 | A202_21.2 P80 BN80A4 | 281 |
| 74 | 66 | 1.5 | 18.6 | 2400 | A052_18.6 S1 M1LA4 | 273 | A052_18.6 P80 BN80A4 | 273 |
| 74 | 66 | 2.3 | 18.6 | 4090 | A102_18.6 S1 M1LA4 | 276 | A102_18.6 P80 BN80A4 | 277 |
| 84 | 59 | 1.7 | 16.4 | 2340 | A052_16.4 S1 M1LA4 | 273 | A052_16.4 P80 BN80A4 | 273 |
| 84 | 59 | 2.5 | 16.4 | 4710 | A102_16.4 S1 M1LA4 | 276 | A102_16.4 P80 BN80A4 | 277 |
| 99 | 50 | 2.0 | 13.9 | 2270 | A052_13.9 S1 M1LA4 | 273 | A052_13.9 P80 BN80A4 | 273 |
| 99 | 50 | 3.0 | 13.9 | 3800 | A102_13.9 S1 M1LA4 | 276 | A102_13.9 P80 BN80A4 | 277 |
| 112 | 44 | 2.3 | 12.3 | 2220 | A052_12.3 S1 M1LA4 | 273 | A052_12.3 P80 BN80A4 | 273 |
| 112 | 44 | 3.2 | 12.3 | 3670 | A102_12.3 S1 M1LA4 | 276 | A102_12.3 P80 BN80A4 | 277 |
| 131 | 38 | 2.6 | 10.6 | 2130 | A052_10.6 S1 M1LA4 | 273 | A052_10.6 P80 BN80A4 | 273 |
| 144 | 34 | 2.9 | 9.6 | 2100 | A052_9.6 S1 M1LA4 | 273 | A052_9.6 P80 BN80A4 | 273 |
| 162 | 30 | 3.3 | 8.5 | 2030 | A052_8.5 S1 M1LA4 | 273 | A052_8.5 P80 BN80A4 | 273 |
| 171 | 29 | 3.1 | 16.4 | 2000 | A052_16.4 S1 M1SD2 | 273 | A052_16.4 P71 BN71B2 | 273 |
| 191 | 26 | 3.9 | 7.2 | 1950 | A052_7.2 S1 M1LA4 | 273 | A052_7.2 P80 BN80A4 | 273 |
| 218 | 23 | 4.4 | 6.3 | 1880 | A052_6.3 S1 M1LA4 | 273 | A052_6.3 P80 BN80A4 | 273 |
| 229 | 22 | 4.6 | 12.3 | 1860 | A052_12.3 S1 M1SD2 | 273 | A052_12.3 P71 BN71B2 | 273 |
| 252 | 19.6 | 4.9 | 5.5 | 1810 | A052_5.5 S1 M1LA4 | 273 | A052_5.5 P80 BN80A4 | 273 |

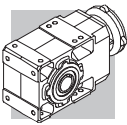


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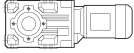



| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 267 | 18.5 | 4.3 | 10.6 | 1780 | A052_10.6 S1 M1SD2 | 273 | A052_10.6 P71 BN71B2 | 273 |
| 293 | 16.8 | 5.6 | 9.6 | 1740 | A052_9.6 S1 M1SD2 | 273 | A052_9.6 P71 BN71B2 | 273 |
| 331 | 14.9 | 6.0 | 8.5 | 1680 | A052_8.5 S1 M1SD2 | 273 | A052_8.5 P71 BN71B2 | 273 |
| 391 | 12.6 | 6.7 | 7.2 | 1600 | A052_7.2 S1 M1SD2 | 273 | A052_7.2 P71 BN71B2 | 273 |
| 445 | 11.1 | 7.2 | 6.3 | 1540 | A052_6.3 S1 M1SD2 | 273 | A052_6.3 P71 BN71B2 | 273 |
| 516 | 9.6 | 7.8 | 5.5 | 1480 | A052_5.5 S1 M1SD2 | 273 | A052_5.5 P71 BN71B2 | 273 |

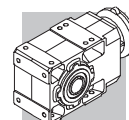
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| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 0.56 | 11316 | 1.2 | 1632 | 75000 | A904_1632 S2 M2SB6 | 314 | A904_1632 P90 BN90S6 | 315 |
| 0.61 | 10446 | 1.3 | 1507 | 75000 | A904_1507 S2 M2SB6 | 314 | A904_1507 P90 BN90S6 | 315 |
| 0.69 | 9179 | 1.5 | 1324 | 75000 | A904_1324 S2 M2SB6 | 314 | A904_1324 P90 BN90S6 | 315 |
| 0.75 | 8473 | 1.7 | 1222 | 75000 | A904_1222 S2 M2SB6 | 314 | A904_1222 P90 BN90S6 | 315 |
| 0.86 | 7436 | 1.9 | 1632 | 75000 | A904_1632 S2 M2SA4 | 314 | A904_1632 P80 BN80B4 | 315 |
| 0.90 | 7096 | 1.1 | 1558 | 65000 | A804_1558 S2 M2SA4 | 311 | A804_1558 P80 BN80B4 | 312 |
| 0.93 | 6864 | 2.0 | 1507 | 75000 | A904_1507 S2 M2SA4 | 314 | A904_1507 P80 BN80B4 | 315 |
| 0.97 | 6550 | 1.2 | 1438 | 65000 | A804_1438 S2 M2SA4 | 311 | A804_1438 P80 BN80B4 | 312 |
| 1.0 | 6104 | 1.3 | 1340 | 65000 | A804_1340 S2 M2SA4 | 311 | A804_1340 P80 BN80B4 | 312 |
| 1.1 | 6032 | 2.3 | 1324 | 75000 | A904_1324 S2 M2SA4 | 314 | A904_1324 P80 BN80B4 | 315 |
| 1.1 | 5660 | 0.9 | 1242 | 50000 | A704_1242 S2 M2SA4 | 308 | A704_1242 P80 BN80B4 | 309 |
| 1.1 | 5635 | 1.4 | 1237 | 65000 | A804_1237 S2 M2SA4 | 311 | A804_1237 P80 BN80B4 | 312 |
| 1.1 | 5568 | 2.5 | 1222 | 75000 | A904_1222 S2 M2SA4 | 314 | A904_1222 P80 BN80B4 | 315 |
| 1.2 | 5291 | 0.9 | 1161 | 50000 | A704_1161 S2 M2SA4 | 308 | A704_1161 P80 BN80B4 | 309 |
| 1.3 | 5060 | 2.8 | 1111 | 75000 | A904_1111 S2 M2SA4 | 314 | A904_1111 P80 BN80B4 | 315 |
| 1.3 | 4942 | 1.6 | 1085 | 65000 | A804_1085 S2 M2SA4 | 311 | A804_1085 P80 BN80B4 | 312 |
| 1.3 | 4884 | 1.0 | 1072 | 50000 | A704_1072 S2 M2SA4 | 308 | A704_1072 P80 BN80B4 | 309 |
| 1.4 | 4670 | 3.0 | 1025 | 75000 | A904_1025 S2 M2SA4 | 314 | A904_1025 P80 BN80B4 | 315 |
| 1.4 | 4562 | 1.8 | 1001 | 65000 | A804_1001 S2 M2SA4 | 311 | A804_1001 P80 BN80B4 | 312 |
| 1.5 | 4270 | 3.3 | 937.2 | 75000 | A904_937.2 S2 M2SA4 | 314 | A904_937.2 P80 BN80B4 | 315 |
| 1.5 | 4221 | 1.2 | 926.5 | 50000 | A704_926.5 S2 M2SA4 | 308 | A704_926.5 P80 BN80B4 | 309 |
| 1.6 | 4094 | 2.0 | 898.7 | 65000 | A804_898.7 S2 M2SA4 | 311 | A804_898.7 P80 BN80B4 | 312 |
| 1.6 | 3896 | 1.3 | 855.3 | 50000 | A704_855.3 S2 M2SA4 | 308 | A704_855.3 P80 BN80B4 | 309 |
| 1.7 | 3779 | 2.1 | 829.5 | 65000 | A804_829.5 S2 M2SA4 | 311 | A804_829.5 P80 BN80B4 | 312 |
| 1.8 | 3480 | 1.4 | 763.9 | 50000 | A704_763.9 S2 M2SA4 | 308 | A704_763.9 P80 BN80B4 | 309 |
| 1.8 | 3472 | 2.3 | 762.1 | 65000 | A804_762.1 S2 M2SA4 | 311 | A804_762.1 P80 BN80B4 | 312 |
| 2.0 | 3212 | 1.6 | 705.1 | 50000 | A704_705.1 S2 M2SA4 | 308 | A704_705.1 P80 BN80B4 | 309 |
| 2.0 | 3205 | 2.5 | 703.5 | 65000 | A804_703.5 S2 M2SA4 | 311 | A804_703.5 P80 BN80B4 | 312 |
| 2.0 | 3177 | 0.9 | 697.3 | 30000 | A604_697.3 S2 M2SA4 | 304 | A604_697.3 P80 BN80B4 | 305 |
| 2.2 | 2937 | 1.7 | 644.6 | 50000 | A704_644.6 S2 M2SA4 | 308 | A704_644.6 P80 BN80B4 | 309 |
| 2.2 | 2891 | 1.0 | 634.6 | 30000 | A604_634.6 S2 M2SA4 | 304 | A604_634.6 P80 BN80B4 | 305 |
| 2.3 | 2766 | 2.9 | 607.2 | 65000 | A804_607.2 S2 M2SA4 | 311 | A804_607.2 P80 BN80B4 | 312 |
| 2.4 | 2711 | 1.8 | 595.0 | 50000 | A704_595.0 S2 M2SA4 | 308 | A704_595.0 P80 BN80B4 | 309 |
| 2.4 | 2669 | 1.0 | 585.8 | 30000 | A604_585.8 S2 M2SA4 | 304 | A604_585.8 P80 BN80B4 | 305 |
| 2.5 | 2553 | 3.1 | 560.5 | 65000 | A804_560.5 S2 M2SA4 | 311 | A804_560.5 P80 BN80B4 | 312 |
| 2.6 | 2469 | 1.1 | 542.0 | 30000 | A604_542.0 S2 M2SA4 | 304 | A604_542.0 P80 BN80B4 | 305 |
| 2.7 | 2348 | 2.1 | 515.4 | 50000 | A704_515.4 S2 M2SA4 | 308 | A704_515.4 P80 BN80B4 | 309 |
| 2.8 | 2279 | 1.2 | 500.3 | 30000 | A604_500.3 S2 M2SA4 | 304 | A604_500.3 P80 BN80B4 | 305 |

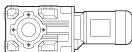





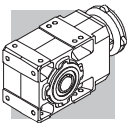
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| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 2.9 | 2167 | 2.3 | 475.8 | 50000 | A704_475.8 S2 M2SA4 | 308 | A704_475.8 P80 BN80B4 | 309 |
| 3.2 | 1997 | 1.4 | 438.4 | 30000 | A604_438.4 S2 M2SA4 | 304 | A604_438.4 P80 BN80B4 | 305 |
| 3.5 | 1844 | 1.5 | 404.7 | 30000 | A604_404.7 S2 M2SA4 | 304 | A604_404.7 P80 BN80B4 | 305 |
| 3.5 | 1823 | 2.7 | 400.2 | 50000 | A704_400.2 S2 M2SA4 | 308 | A704_400.2 P80 BN80B4 | 309 |
| 3.8 | 1683 | 3.0 | 369.4 | 50000 | A704_369.4 S2 M2SA4 | 308 | A704_369.4 P80 BN80B4 | 309 |
| 3.8 | 1666 | 0.9 | 365.6 | 20000 | A504_365.6 S2 M2SA4 | 296 | A504_365.6 P80 BN80B4 | 297 |
| 4.0 | 1600 | 1.8 | 351.2 | 30000 | A604_351.2 S2 M2SA4 | 304 | A604_351.2 P80 BN80B4 | 305 |
| 4.2 | 1515 | 1.0 | 332.6 | 20000 | A504_332.6 S2 M2SA4 | 296 | A504_332.6 P80 BN80B4 | 297 |
| 4.3 | 1477 | 1.9 | 324.2 | 30000 | A604_324.2 S2 M2SA4 | 304 | A604_324.2 P80 BN80B4 | 305 |
| 4.4 | 1441 | 3.5 | 316.4 | 50000 | A704_316.4 S2 M2SA4 | 308 | A704_316.4 P80 BN80B4 | 309 |
| 4.9 | 1307 | 1.1 | 286.8 | 20000 | A504_286.8 S2 M2SA4 | 296 | A504_286.8 P80 BN80B4 | 297 |
| 4.9 | 1304 | 2.1 | 286.3 | 30000 | A604_286.3 S2 M2SA4 | 304 | A604_286.3 P80 BN80B4 | 305 |
| 5.3 | 1204 | 2.3 | 264.3 | 30000 | A604_264.3 S2 M2SA4 | 304 | A604_264.3 P80 BN80B4 | 305 |
| 5.4 | 1189 | 1.3 | 260.9 | 20000 | A504_260.9 S2 M2SA4 | 296 | A504_260.9 P80 BN80B4 | 297 |
| 6.0 | 1057 | 1.4 | 232.0 | 20000 | A504_232.0 S2 M2SA4 | 296 | A504_232.0 P80 BN80B4 | 297 |
| 6.2 | 1030 | 2.7 | 226.1 | 30000 | A604_226.1 S2 M2SA4 | 304 | A604_226.1 P80 BN80B4 | 305 |
| 6.6 | 961 | 1.6 | 211.0 | 20000 | A504_211.0 S2 M2SA4 | 296 | A504_211.0 P80 BN80B4 | 297 |
| 6.7 | 951 | 2.9 | 208.7 | 30000 | A604_208.7 S2 M2SA4 | 304 | A604_208.7 P80 BN80B4 | 305 |
| 7.1 | 920 | 0.9 | 197.5 | 15000 | A413_197.5 S2 M2SA4 | 292 | A413_197.5 P80 BN80B4 | 293 |
| 7.2 | 905 | 2.2 | 194.2 | 30000 | A553_194.2 S2 M2SA4 | 300 | A553_194.2 P80 BN80B4 | 301 |
| 7.3 | 888 | 1.7 | 190.6 | 20000 | A503_190.6 S2 M2SA4 | 296 | A503_190.6 P80 BN80B4 | 297 |
| 7.5 | 865 | 3.2 | 185.8 | 30000 | A603_185.8 S2 M2SA4 | 304 | A603_185.8 P80 BN80B4 | 305 |
| 7.6 | 859 | 1.0 | 184.4 | 15000 | A413_184.4 S2 M2SA4 | 292 | A413_184.4 P80 BN80B4 | 293 |
| 8.0 | 815 | 2.5 | 175.0 | 30000 | A553_175.0 S2 M2SA4 | 300 | A553_175.0 P80 BN80B4 | 301 |
| 8.1 | 808 | 1.9 | 173.4 | 20000 | A503_173.4 S2 M2SA4 | 296 | A503_173.4 P80 BN80B4 | 297 |
| 8.2 | 799 | 3.5 | 171.5 | 30000 | A603_171.5 S2 M2SA4 | 304 | A603_171.5 P80 BN80B4 | 305 |
| 8.7 | 747 | 2.7 | 160.4 | 30000 | A553_160.4 S2 M2SA4 | 300 | A553_160.4 P80 BN80B4 | 301 |
| 9.1 | 720 | 2.1 | 154.6 | 20000 | A503_154.6 S2 M2SA4 | 296 | A503_154.6 P80 BN80B4 | 297 |
| 9.5 | 684 | 1.2 | 146.9 | 15000 | A413_146.9 S2 M2SA4 | 292 | A413_146.9 P80 BN80B4 | 293 |
| 9.5 | 684 | 2.9 | 146.8 | 30000 | A553_146.8 S2 M2SA4 | 300 | A553_146.8 P80 BN80B4 | 301 |
| 10.0 | 655 | 2.3 | 140.6 | 20000 | A503_140.6 S2 M2SA4 | 296 | A503_140.6 P80 BN80B4 | 297 |
| 10.3 | 635 | 0.9 | 136.3 | 12000 | A353_136.3 S2 M2SA4 | 288 | A353_136.3 P80 BN80B4 | 289 |
| 10.5 | 618 | 3.2 | 132.7 | 30000 | A553_132.7 S2 M2SA4 | 300 | A553_132.7 P80 BN80B4 | 301 |
| 10.8 | 604 | 2.5 | 129.7 | 20000 | A503_129.7 S2 M2SA4 | 296 | A503_129.7 P80 BN80B4 | 297 |
| 11.3 | 577 | 3.5 | 123.9 | 30000 | A553_123.9 S2 M2SA4 | 300 | A553_123.9 P80 BN80B4 | 301 |
| 11.9 | 549 | 2.7 | 118.0 | 20000 | A503_118.0 S2 M2SA4 | 296 | A503_118.0 P80 BN80B4 | 297 |
| 12.0 | 545 | 1.0 | 116.9 | 12000 | A353_116.9 S2 M2SA4 | 288 | A353_116.9 P80 BN80B4 | 289 |
| 12.1 | 540 | 1.6 | 115.9 | 15000 | A413_115.9 S2 M2SA4 | 292 | A413_115.9 P80 BN80B4 | 293 |
| 12.8 | 510 | 2.9 | 109.4 | 20000 | A503_109.4 S2 M2SA4 | 296 | A503_109.4 P80 BN80B4 | 297 |
| 13.3 | 492 | 1.1 | 105.5 | 12000 | A353_105.5 S2 M2SA4 | 288 | A353_105.5 P80 BN80B4 | 289 |
| 14.1 | 464 | 3.2 | 99.5 | 20000 | A503_99.5 S2 M2SA4 | 296 | A503_99.5 P80 BN80B4 | 297 |
| 14.6 | 460 | 1.2 | 95.6 | 12000 | A352_95.6 S2 M2SA4 | 288 | A352_95.6 P80 BN80B4 | 289 |
| 15.1 | 432 | 1.9 | 92.8 | 15000 | A413_92.8 S2 M2SA4 | 292 | A413_92.8 P80 BN80B4 | 293 |
| 17.0 | 397 | 1.5 | 82.5 | 12000 | A352_82.5 S2 M2SA4 | 288 | A352_82.5 P80 BN80B4 | 289 |
| 17.7 | 381 | 2.2 | 79.2 | 15000 | A412_79.2 S2 M2SA4 | 292 | A412_79.2 P80 BN80B4 | 293 |
| 18.3 | 368 | 1.0 | 76.5 | 8580 | A302_76.5 S2 M2SA4 | 284 | A302_76.5 P80 BN80B4 | 285 |
| 18.8 | 357 | 1.7 | 74.3 | 12000 | A352_74.3 S2 M2SA4 | 288 | A352_74.3 P80 BN80B4 | 289 |
| 19.6 | 343 | 2.5 | 71.3 | 15000 | A412_71.3 S2 M2SA4 | 292 | A412_71.3 P80 BN80B4 | 293 |
| 21.2 | 318 | 1.2 | 66.0 | 8360 | A302_66.0 S2 M2SA4 | 284 | A302_66.0 P80 BN80B4 | 285 |
| 21.3 | 317 | 1.9 | 65.8 | 12000 | A352_65.8 S2 M2SA4 | 288 | A352_65.8 P80 BN80B4 | 289 |
| 21.8 | 309 | 2.8 | 64.2 | 15000 | A412_64.2 S2 M2SA4 | 292 | A412_64.2 P80 BN80B4 | 293 |

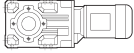





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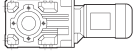



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 23.2 | 290 | 2.1 | 60.4 | 12000 | A352_60.4 S2 M2SA4 | 288 | A352_60.4 P80 BN80B4 | 289 |
| 23.6 | 286 | 1.4 | 59.4 | 8190 | A302_59.4 S2 M2SA4 | 284 | A302_59.4 P80 BN80B4 | 285 |
| 23.8 | 283 | 3.0 | 58.8 | 15000 | A412_58.8 S2 M2SA4 | 292 | A412_58.8 P80 BN80B4 | 293 |
| 25.8 | 261 | 2.3 | 54.3 | 12000 | A352_54.3 S2 M2SA4 | 288 | A352_54.3 P80 BN80B4 | 289 |
| 26.1 | 258 | 1.0 | 53.7 | 5210 | A202_53.7 S2 M2SA4 | 280 | A202_53.7 P80 BN80B4 | 281 |
| 26.3 | 256 | 3.3 | 53.1 | 15000 | A412_53.1 S2 M2SA4 | 292 | A412_53.1 P80 BN80B4 | 293 |
| 26.6 | 253 | 1.6 | 52.7 | 7990 | A302_52.7 S2 M2SA4 | 284 | A302_52.7 P80 BN80B4 | 285 |
| 28.5 | 236 | 2.5 | 49.1 | 12000 | A352_49.1 S2 M2SA4 | 288 | A352_49.1 P80 BN80B4 | 289 |
| 29.0 | 232 | 1.1 | 48.3 | 5140 | A202_48.3 S2 M2SA4 | 280 | A202_48.3 P80 BN80B4 | 281 |
| 29.0 | 232 | 1.8 | 48.3 | 7840 | A302_48.3 S2 M2SA4 | 284 | A302_48.3 P80 BN80B4 | 285 |
| 31 | 220 | 2.7 | 45.8 | 12000 | A352_45.8 S2 M2SA4 | 288 | A352_45.8 P80 BN80B4 | 289 |
| 32 | 209 | 2.0 | 43.4 | 7660 | A302_43.4 S2 M2SA4 | 284 | A302_43.4 P80 BN80B4 | 285 |
| 32 | 208 | 1.2 | 43.2 | 5060 | A202_43.2 S2 M2SA4 | 280 | A202_43.2 P80 BN80B4 | 281 |
| 34 | 201 | 3.0 | 41.8 | 11900 | A352_41.8 S2 M2SA4 | 288 | A352_41.8 P80 BN80B4 | 289 |
| 35 | 191 | 1.3 | 39.6 | 4990 | A202_39.6 S2 M2SA4 | 280 | A202_39.6 P80 BN80B4 | 281 |
| 36 | 189 | 2.2 | 39.3 | 7480 | A302_39.3 S2 M2SA4 | 284 | A302_39.3 P80 BN80B4 | 285 |
| 38 | 176 | 2.3 | 36.6 | 7360 | A302_36.6 S2 M2SA4 | 284 | A302_36.6 P80 BN80B4 | 285 |
| 38 | 176 | 3.4 | 36.6 | 11500 | A352_36.6 S2 M2SA4 | 288 | A352_36.6 P80 BN80B4 | 289 |
| 40 | 170 | 1.5 | 35.4 | 4890 | A202_35.4 S2 M2SA4 | 280 | A202_35.4 P80 BN80B4 | 281 |
| 40 | 169 | 0.9 | 35.1 | 4320 | A102_35.1 S2 M2SA4 | 276 | A102_35.1 P80 BN80B4 | 277 |
| 42 | 161 | 2.5 | 33.4 | 7200 | A302_33.4 S2 M2SA4 | 284 | A302_33.4 P80 BN80B4 | 285 |
| 43 | 155 | 1.0 | 32.2 | 5080 | A102_32.2 S2 M2SA4 | 276 | A102_32.2 P80 BN80B4 | 277 |
| 45 | 151 | 1.7 | 31.3 | 4780 | A202_31.3 S2 M2SA4 | 280 | A202_31.3 P80 BN80B4 | 281 |
| 48 | 141 | 2.9 | 29.3 | 6960 | A302_29.3 S2 M2SA4 | 284 | A302_29.3 P80 BN80B4 | 285 |
| 48 | 141 | 1.8 | 29.2 | 4710 | A202_29.2 S2 M2SA4 | 280 | A202_29.2 P80 BN80B4 | 281 |
| 49 | 137 | 1.1 | 28.6 | 4200 | A102_28.6 S2 M2SA4 | 276 | A102_28.6 P80 BN80B4 | 277 |
| 53 | 128 | 3.2 | 26.5 | 6790 | A302_26.5 S2 M2SA4 | 284 | A302_26.5 P80 BN80B4 | 285 |
| 53 | 127 | 2.0 | 26.5 | 4620 | A202_26.5 S2 M2SA4 | 280 | A202_26.5 P80 BN80B4 | 281 |
| 55 | 123 | 1.2 | 25.5 | 4900 | A102_25.5 S2 M2SA4 | 276 | A102_25.5 P80 BN80B4 | 277 |
| 59 | 114 | 1.3 | 23.8 | 4070 | A102_23.8 S2 M2SA4 | 276 | A102_23.8 P80 BN80B4 | 277 |
| 61 | 111 | 2.2 | 23.1 | 4480 | A202_23.1 S2 M2SA4 | 280 | A202_23.1 P80 BN80B4 | 281 |
| 66 | 103 | 1.0 | 21.4 | 2210 | A052_21.4 S2 M2SA4 | 273 | A052_21.4 P80 BN80B4 | 273 |
| 66 | 103 | 1.5 | 21.4 | 4740 | A102_21.4 S2 M2SA4 | 276 | A102_21.4 P80 BN80B4 | 277 |
| 66 | 102 | 2.4 | 21.2 | 4390 | A202_21.2 S2 M2SA4 | 280 | A202_21.2 P80 BN80B4 | 281 |
| 75 | 89 | 1.1 | 18.6 | 2190 | A052_18.6 S2 M2SA4 | 273 | A052_18.6 P80 BN80B4 | 273 |
| 75 | 89 | 1.7 | 18.6 | 3880 | A102_18.6 S2 M2SA4 | 276 | A102_18.6 P80 BN80B4 | 277 |
| 77 | 87 | 2.9 | 18.1 | 4230 | A202_18.1 S2 M2SA4 | 280 | A202_18.1 P80 BN80B4 | 281 |
| 85 | 79 | 1.3 | 16.4 | 2160 | A052_16.4 S2 M2SA4 | 273 | A052_16.4 P80 BN80B4 | 273 |
| 85 | 79 | 1.9 | 16.4 | 4490 | A102_16.4 S2 M2SA4 | 276 | A102_16.4 P80 BN80B4 | 277 |
| 87 | 78 | 3.2 | 16.2 | 4110 | A202_16.2 S2 M2SA4 | 280 | A202_16.2 P80 BN80B4 | 281 |
| 101 | 67 | 1.5 | 13.9 | 2110 | A052_13.9 S2 M2SA4 | 273 | A052_13.9 P80 BN80B4 | 273 |
| 101 | 67 | 2.2 | 13.9 | 3640 | A102_13.9 S2 M2SA4 | 276 | A102_13.9 P80 BN80B4 | 277 |
| 114 | 59 | 1.7 | 12.3 | 2080 | A052_12.3 S2 M2SA4 | 273 | A052_12.3 P80 BN80B4 | 273 |
| 114 | 59 | 2.4 | 12.3 | 3530 | A102_12.3 S2 M2SA4 | 276 | A102_12.3 P80 BN80B4 | 277 |
| 133 | 51 | 2.0 | 10.6 | 2010 | A052_10.6 S2 M2SA4 | 273 | A052_10.6 P80 BN80B4 | 273 |
| 133 | 51 | 3.0 | 10.6 | 3400 | A102_10.6 S2 M2SA4 | 276 | A102_10.6 P80 BN80B4 | 277 |
| 146 | 46 | 2.2 | 9.6 | 1990 | A052_9.6 S2 M2SA4 | 273 | A052_9.6 P80 BN80B4 | 273 |
| 146 | 46 | 3.0 | 9.6 | 3320 | A102_9.6 S2 M2SA4 | 276 | A102_9.6 P80 BN80B4 | 277 |
| 164 | 41 | 2.4 | 8.5 | 1940 | A052_8.5 S2 M2SA4 | 273 | A052_8.5 P80 BN80B4 | 273 |
| 164 | 41 | 3.4 | 8.5 | 3820 | A102_8.5 S2 M2SA4 | 276 | A102_8.5 P80 BN80B4 | 277 |
| 194 | 35 | 2.9 | 7.2 | 1870 | A052_7.2 S2 M2SA4 | 273 | A052_7.2 P80 BN80B4 | 273 |

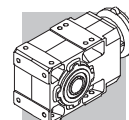


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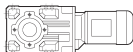




| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 221 | 30 | 3.3 | 6.3 | 1810 | A052_6.3 S2 M2SA4 | 273 | A052_6.3 P80 BN80B4 | 273 |
| 256 | 26 | 3.6 | 5.5 | 1750 | A052_5.5 S2 M2SA4 | 273 | A052_5.5 P80 BN80B4 | 273 |
| 266 | 25 | 3.2 | 10.6 | 1720 | A052_10.6 S1 M1LA2 | 273 | A052_10.6 P80 BN80A2 | 273 |
| 292 | 23 | 4.1 | 9.6 | 1690 | A052_9.6 S1 M1LA2 | 273 | A052_9.6 P80 BN80A2 | 273 |
| 330 | 20 | 4.4 | 8.5 | 1640 | A052_8.5 S1 M1LA2 | 273 | A052_8.5 P80 BN80A2 | 273 |
| 390 | 17.3 | 4.9 | 7.2 | 1570 | A052_7.2 S1 M1LA2 | 273 | A052_7.2 P80 BN80A2 | 273 |
| 444 | 15.2 | 5.3 | 6.3 | 1510 | A052_6.3 S1 M1LA2 | 273 | A052_6.3 P80 BN80A2 | 273 |
| 514 | 13.1 | 5.7 | 5.5 | 1450 | A052_5.5 S1 M1LA2 | 273 | A052_5.5 P80 BN80A2 | 273 |

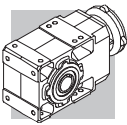
1.1 kW

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 0.61 | 15320 | 0.9 | 1507 | 75000 | A904_1507 S3 M3SA6 | 314 | A904_1507 P90 BN90L6 | 315 |
| 0.69 | 13462 | 1.0 | 1324 | 75000 | A904_1324 S3 M3SA6 | 314 | A904_1324 P90 BN90L6 | 315 |
| 0.75 | 12427 | 1.1 | 1222 | 75000 | A904_1222 S3 M3SA6 | 314 | A904_1222 P90 BN90L6 | 315 |
| 0.86 | 10907 | 1.3 | 1632 | 75000 | A904_1632 S2 M2SB4 | 314 | A904_1632 P90 BN90S4 | 315 |
| 0.93 | 10068 | 1.4 | 1507 | 75000 | A904_1507 S2 M2SB4 | 314 | A904_1507 P90 BN90S4 | 315 |
| 1.0 | 8953 | 0.9 | 1340 | 65000 | A804_1340 S2 M2SB4 | 311 | A804_1340 P90 BN90S4 | 312 |
| 1.1 | 8847 | 1.6 | 1324 | 75000 | A904_1324 S2 M2SB4 | 314 | A904_1324 P90 BN90S4 | 315 |
| 1.1 | 8264 | 1.0 | 1237 | 65000 | A804_1237 S2 M2SB4 | 311 | A804_1237 P90 BN90S4 | 312 |
| 1.1 | 8166 | 1.7 | 1222 | 75000 | A904_1222 S2 M2SB4 | 314 | A904_1222 P90 BN90S4 | 315 |
| 1.3 | 7421 | 1.9 | 1111 | 75000 | A904_1111 S2 M2SB4 | 314 | A904_1111 P90 BN90S4 | 315 |
| 1.3 | 7249 | 1.1 | 1085 | 65000 | A804_1085 S2 M2SB4 | 311 | A804_1085 P90 BN90S4 | 312 |
| 1.4 | 6850 | 2.0 | 1025 | 75000 | A904_1025 S2 M2SB4 | 314 | A904_1025 P90 BN90S4 | 315 |
| 1.4 | 6691 | 1.2 | 1001 | 65000 | A804_1001 S2 M2SB4 | 311 | A804_1001 P90 BN90S4 | 312 |
| 1.5 | 6262 | 2.2 | 937.2 | 75000 | A904_937.2 S2 M2SB4 | 314 | A904_937.2 P90 BN90S4 | 315 |
| 1.6 | 6005 | 1.3 | 898.7 | 65000 | A804_898.7 S2 M2SB4 | 311 | A804_898.7 P90 BN90S4 | 312 |
| 1.6 | 5780 | 2.4 | 865.1 | 75000 | A904_865.1 S2 M2SB4 | 314 | A904_865.1 P90 BN90S4 | 315 |
| 1.6 | 5715 | 0.9 | 855.3 | 50000 | A704_855.3 S2 M2SB4 | 308 | A704_855.3 P90 BN90S4 | 309 |
| 1.7 | 5543 | 1.4 | 829.5 | 65000 | A804_829.5 S2 M2SB4 | 311 | A804_829.5 P90 BN90S4 | 312 |
| 1.8 | 5124 | 2.7 | 766.9 | 75000 | A904_766.9 S2 M2SB4 | 314 | A904_766.9 P90 BN90S4 | 315 |
| 1.8 | 5104 | 1.0 | 763.9 | 50000 | A704_763.9 S2 M2SB4 | 308 | A704_763.9 P90 BN90S4 | 309 |
| 1.8 | 5092 | 1.6 | 762.1 | 65000 | A804_762.1 S2 M2SB4 | 311 | A804_762.1 P90 BN90S4 | 312 |
| 2.0 | 4730 | 3.0 | 707.9 | 75000 | A904_707.9 S2 M2SB4 | 314 | A904_707.9 P90 BN90S4 | 315 |
| 2.0 | 4711 | 1.1 | 705.1 | 50000 | A704_705.1 S2 M2SB4 | 308 | A704_705.1 P90 BN90S4 | 309 |
| 2.0 | 4700 | 1.7 | 703.5 | 65000 | A804_703.5 S2 M2SB4 | 311 | A804_703.5 P90 BN90S4 | 312 |
| 2.2 | 4307 | 1.2 | 644.6 | 50000 | A704_644.6 S2 M2SB4 | 308 | A704_644.6 P90 BN90S4 | 309 |
| 2.3 | 4057 | 2.0 | 607.2 | 65000 | A804_607.2 S2 M2SB4 | 311 | A804_607.2 P90 BN90S4 | 312 |
| 2.3 | 4019 | 3.5 | 601.6 | 75000 | A904_601.6 S2 M2SB4 | 314 | A904_601.6 P90 BN90S4 | 315 |
| 2.4 | 3976 | 1.3 | 595.0 | 50000 | A704_595.0 S2 M2SB4 | 308 | A704_595.0 P90 BN90S4 | 309 |
| 2.5 | 3745 | 2.1 | 560.5 | 65000 | A804_560.5 S2 M2SB4 | 311 | A804_560.5 P90 BN90S4 | 312 |
| 2.7 | 3444 | 1.5 | 515.4 | 50000 | A704_515.4 S2 M2SB4 | 308 | A704_515.4 P90 BN90S4 | 309 |
| 2.9 | 3200 | 2.5 | 478.9 | 65000 | A804_478.9 S2 M2SB4 | 311 | A804_478.9 P90 BN90S4 | 312 |
| 2.9 | 3179 | 1.6 | 475.8 | 50000 | A704_475.8 S2 M2SB4 | 308 | A704_475.8 P90 BN90S4 | 309 |
| 3.2 | 2954 | 2.7 | 442.1 | 65000 | A804_442.1 S2 M2SB4 | 311 | A804_442.1 P90 BN90S4 | 312 |
| 3.2 | 2929 | 1.0 | 438.4 | 30000 | A604_438.4 S2 M2SB4 | 304 | A604_438.4 P90 BN90S4 | 305 |
| 3.5 | 2704 | 1.0 | 404.7 | 30000 | A604_404.7 S2 M2SB4 | 304 | A604_404.7 P90 BN90S4 | 305 |
| 3.5 | 2674 | 1.9 | 400.2 | 50000 | A704_400.2 S2 M2SB4 | 308 | A704_400.2 P90 BN90S4 | 309 |

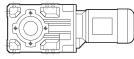





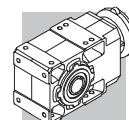
1.1 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 3.7 | 2562 | 3.1 | 383.5 | 65000 | A804_383.5 S2 M2SB4 | 311 | A804_383.5 P90 BN90S4 | 312 |
| 3.8 | 2468 | 2.0 | 369.4 | 50000 | A704_369.4 S2 M2SB4 | 308 | A704_369.4 P90 BN90S4 | 309 |
| 4.0 | 2365 | 3.4 | 354.0 | 65000 | A804_354.0 S2 M2SB4 | 311 | A804_354.0 P90 BN90S4 | 312 |
| 4.0 | 2347 | 1.2 | 351.2 | 30000 | A604_351.2 S2 M2SB4 | 304 | A604_351.2 P90 BN90S4 | 305 |
| 4.3 | 2166 | 1.3 | 324.2 | 30000 | A604_324.2 S2 M2SB4 | 304 | A604_324.2 P90 BN90S4 | 305 |
| 4.4 | 2114 | 2.4 | 316.4 | 50000 | A704_316.4 S2 M2SB4 | 308 | A704_316.4 P90 BN90S4 | 309 |
| 4.8 | 1951 | 2.6 | 292.0 | 50000 | A704_292.0 S2 M2SB4 | 308 | A704_292.0 P90 BN90S4 | 309 |
| 4.9 | 1913 | 1.5 | 286.3 | 30000 | A604_286.3 S2 M2SB4 | 304 | A604_286.3 P90 BN90S4 | 305 |
| 5.3 | 1766 | 1.6 | 264.3 | 30000 | A604_264.3 S2 M2SB4 | 304 | A604_264.3 P90 BN90S4 | 305 |
| 5.4 | 1743 | 0.9 | 260.9 | 20000 | A504_260.9 S2 M2SB4 | 296 | A504_260.9 P90 BN90S4 | 297 |
| 5.9 | 1594 | 3.1 | 238.6 | 50000 | A704_238.6 S2 M2SB4 | 308 | A704_238.6 P90 BN90S4 | 309 |
| 6.0 | 1550 | 1.0 | 232.0 | 20000 | A504_232.0 S2 M2SB4 | 296 | A504_232.0 P90 BN90S4 | 297 |
| 6.2 | 1511 | 1.9 | 226.1 | 30000 | A604_226.1 S2 M2SB4 | 304 | A604_226.1 P90 BN90S4 | 305 |
| 6.4 | 1472 | 3.4 | 220.3 | 50000 | A704_220.3 S2 M2SB4 | 308 | A704_220.3 P90 BN90S4 | 309 |
| 6.6 | 1410 | 1.1 | 211.0 | 20000 | A504_211.0 S2 M2SB4 | 296 | A504_211.0 P90 BN90S4 | 297 |
| 6.7 | 1395 | 2.0 | 208.7 | 30000 | A604_208.7 S2 M2SB4 | 304 | A604_208.7 P90 BN90S4 | 305 |
| 7.2 | 1327 | 1.5 | 194.2 | 30000 | A553_194.2 S2 M2SB4 | 300 | A553_194.2 P90 BN90S4 | 301 |
| 7.3 | 1302 | 1.2 | 190.6 | 20000 | A503_190.6 S2 M2SB4 | 296 | A503_190.6 P90 BN90S4 | 297 |
| 7.5 | 1269 | 2.2 | 185.8 | 30000 | A603_185.8 S2 M2SB4 | 304 | A603_185.8 P90 BN90S4 | 305 |
| 8.0 | 1196 | 1.7 | 175.0 | 30000 | A553_175.0 S2 M2SB4 | 300 | A553_175.0 P90 BN90S4 | 301 |
| 8.1 | 1184 | 1.3 | 173.4 | 20000 | A503_173.4 S2 M2SB4 | 296 | A503_173.4 P90 BN90S4 | 297 |
| 8.2 | 1171 | 2.4 | 171.5 | 30000 | A603_171.5 S2 M2SB4 | 304 | A603_171.5 P90 BN90S4 | 305 |
| 8.7 | 1096 | 1.8 | 160.4 | 30000 | A553_160.4 S2 M2SB4 | 300 | A553_160.4 P90 BN90S4 | 301 |
| 9.0 | 1066 | 2.6 | 156.0 | 30000 | A603_156.0 S2 M2SB4 | 304 | A603_156.0 P90 BN90S4 | 305 |
| 9.1 | 1056 | 1.4 | 154.6 | 20000 | A503_154.6 S2 M2SB4 | 296 | A503_154.6 P90 BN90S4 | 297 |
| 9.5 | 1003 | 2.0 | 146.8 | 30000 | A553_146.8 S2 M2SB4 | 300 | A553_146.8 P90 BN90S4 | 301 |
| 9.7 | 984 | 2.8 | 144.0 | 30000 | A603_144.0 S2 M2SB4 | 304 | A603_144.0 P90 BN90S4 | 305 |
| 10.0 | 961 | 1.6 | 140.6 | 20000 | A503_140.6 S2 M2SB4 | 296 | A503_140.6 P90 BN90S4 | 297 |
| 10.5 | 911 | 3.1 | 133.3 | 30000 | A603_133.3 S2 M2SB4 | 304 | A603_133.3 P90 BN90S4 | 305 |
| 10.5 | 907 | 2.2 | 132.7 | 30000 | A553_132.7 S2 M2SB4 | 300 | A553_132.7 P90 BN90S4 | 301 |
| 10.8 | 886 | 1.7 | 129.7 | 20000 | A503_129.7 S2 M2SB4 | 296 | A503_129.7 P90 BN90S4 | 297 |
| 11.3 | 846 | 2.4 | 123.9 | 30000 | A553_123.9 S2 M2SB4 | 300 | A553_123.9 P90 BN90S4 | 301 |
| 11.4 | 841 | 3.3 | 123.0 | 30000 | A603_123.0 S2 M2SB4 | 304 | A603_123.0 P90 BN90S4 | 305 |
| 11.9 | 806 | 1.9 | 118.0 | 20000 | A503_118.0 S2 M2SB4 | 296 | A503_118.0 P90 BN90S4 | 297 |
| 12.1 | 792 | 1.1 | 115.9 | 15000 | A413_115.9 S2 M2SB4 | 292 | A413_115.9 P90 BN90S4 | 293 |
| 12.8 | 748 | 2.0 | 109.4 | 20000 | A503_109.4 S2 M2SB4 | 296 | A503_109.4 P90 BN90S4 | 297 |
| 13.8 | 693 | 2.9 | 101.4 | 30000 | A553_101.4 S2 M2SB4 | 300 | A553_101.4 P90 BN90S4 | 301 |
| 14.1 | 680 | 2.2 | 99.5 | 20000 | A503_99.5 S2 M2SB4 | 296 | A503_99.5 P90 BN90S4 | 297 |
| 15.1 | 634 | 1.3 | 92.8 | 15000 | A413_92.8 S2 M2SB4 | 292 | A413_92.8 P90 BN90S4 | 293 |
| 15.6 | 612 | 2.5 | 89.5 | 20000 | A503_89.5 S2 M2SB4 | 296 | A503_89.5 P90 BN90S4 | 297 |
| 17.0 | 582 | 1.0 | 82.5 | 12000 | A352_82.5 S2 M2SB4 | 288 | A352_82.5 P90 BN90S4 | 289 |
| 17.2 | 556 | 2.7 | 81.5 | 20000 | A503_81.5 S2 M2SB4 | 296 | A503_81.5 P90 BN90S4 | 297 |
| 17.7 | 559 | 1.5 | 79.2 | 15000 | A412_79.2 S2 M2SB4 | 292 | A412_79.2 P90 BN90S4 | 293 |
| 18.8 | 524 | 1.1 | 74.3 | 12000 | A352_74.3 S2 M2SB4 | 288 | A352_74.3 P90 BN90S4 | 289 |
| 19.6 | 503 | 1.7 | 71.3 | 15000 | A412_71.3 S2 M2SB4 | 292 | A412_71.3 P90 BN90S4 | 293 |
| 19.9 | 480 | 3.1 | 70.2 | 20000 | A503_70.2 S2 M2SB4 | 296 | A503_70.2 P90 BN90S4 | 297 |
| 21.3 | 465 | 1.3 | 65.8 | 12000 | A352_65.8 S2 M2SB4 | 288 | A352_65.8 P90 BN90S4 | 289 |
| 21.8 | 453 | 1.9 | 64.2 | 15000 | A412_64.2 S2 M2SB4 | 292 | A412_64.2 P90 BN90S4 | 293 |
| 21.9 | 436 | 3.4 | 63.9 | 20000 | A503_63.9 S2 M2SB4 | 296 | A503_63.9 P90 BN90S4 | 297 |
| 23.2 | 426 | 1.4 | 60.4 | 12000 | A352_60.4 S2 M2SB4 | 288 | A352_60.4 P90 BN90S4 | 289 |
| 23.6 | 419 | 1.0 | 59.4 | 7420 | A302_59.4 S2 M2SB4 | 284 | A302_59.4 P90 BN90S4 | 285 |

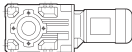




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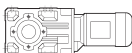


| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 23.8 | 415 | 2.0 | 58.8 | 15000 | A412_58.8 S2 M2SB4 | 292 | A412_58.8 P90 BN90S4 | 293 |
| 25.8 | 383 | 1.6 | 54.3 | 12000 | A352_54.3 S2 M2SB4 | 288 | A352_54.3 P90 BN90S4 | 289 |
| 26.3 | 375 | 2.3 | 53.1 | 15000 | A412_53.1 S2 M2SB4 | 292 | A412_53.1 P90 BN90S4 | 293 |
| 26.6 | 372 | 1.1 | 52.7 | 7310 | A302_52.7 S2 M2SB4 | 284 | A302_52.7 P90 BN90S4 | 285 |
| 28.5 | 346 | 1.7 | 49.1 | 11800 | A352_49.1 S2 M2SB4 | 288 | A352_49.1 P90 BN90S4 | 289 |
| 29.0 | 341 | 1.2 | 48.3 | 7220 | A302_48.3 S2 M2SB4 | 284 | A302_48.3 P90 BN90S4 | 285 |
| 29.0 | 341 | 2.5 | 48.3 | 15000 | A412_48.3 S2 M2SB4 | 292 | A412_48.3 P90 BN90S4 | 293 |
| 31 | 323 | 1.9 | 45.8 | 11700 | A352_45.8 S2 M2SB4 | 288 | A352_45.8 P90 BN90S4 | 289 |
| 31 | 318 | 2.6 | 45.1 | 15000 | A412_45.1 S2 M2SB4 | 292 | A412_45.1 P90 BN90S4 | 293 |
| 32 | 306 | 1.3 | 43.4 | 7100 | A302_43.4 S2 M2SB4 | 284 | A302_43.4 P90 BN90S4 | 285 |
| 34 | 295 | 2.0 | 41.8 | 11400 | A352_41.8 S2 M2SB4 | 288 | A352_41.8 P90 BN90S4 | 289 |
| 36 | 277 | 1.5 | 39.3 | 6970 | A302_39.3 S2 M2SB4 | 284 | A302_39.3 P90 BN90S4 | 285 |
| 38 | 259 | 1.6 | 36.6 | 6880 | A302_36.6 S2 M2SB4 | 284 | A302_36.6 P90 BN90S4 | 285 |
| 38 | 258 | 2.3 | 36.6 | 11100 | A352_36.6 S2 M2SB4 | 288 | A352_36.6 P90 BN90S4 | 289 |
| 39 | 253 | 3.1 | 35.9 | 14300 | A412_35.9 S2 M2SB4 | 292 | A412_35.9 P90 BN90S4 | 293 |
| 40 | 250 | 1.0 | 35.4 | 4380 | A202_35.4 S2 M2SB4 | 280 | A202_35.4 P90 BN90S4 | 281 |
| 42 | 236 | 1.7 | 33.4 | 6760 | A302_33.4 S2 M2SB4 | 284 | A302_33.4 P90 BN90S4 | 285 |
| 42 | 234 | 2.6 | 33.2 | 10800 | A352_33.2 S2 M2SB4 | 288 | A352_33.2 P90 BN90S4 | 289 |
| 45 | 221 | 1.1 | 31.3 | 4320 | A202_31.3 S2 M2SB4 | 280 | A202_31.3 P90 BN90S4 | 281 |
| 48 | 207 | 2.0 | 29.3 | 6580 | A302_29.3 S2 M2SB4 | 284 | A302_29.3 P90 BN90S4 | 285 |
| 48 | 206 | 1.2 | 29.2 | 4290 | A202_29.2 S2 M2SB4 | 280 | A202_29.2 P90 BN90S4 | 281 |
| 49 | 201 | 3.0 | 28.4 | 10400 | A352_28.4 S2 M2SB4 | 288 | A352_28.4 P90 BN90S4 | 289 |
| 53 | 187 | 2.2 | 26.5 | 6440 | A302_26.5 S2 M2SB4 | 284 | A302_26.5 P90 BN90S4 | 285 |
| 53 | 187 | 1.3 | 26.5 | 4230 | A202_26.5 S2 M2SB4 | 280 | A202_26.5 P90 BN90S4 | 281 |
| 55 | 181 | 3.3 | 25.7 | 10100 | A352_25.7 S2 M2SB4 | 288 | A352_25.7 P90 BN90S4 | 289 |
| 59 | 168 | 0.9 | 23.8 | 3640 | A102_23.8 S2 M2SB4 | 276 | A102_23.8 P90 BN90S4 | 277 |
| 61 | 163 | 1.5 | 23.1 | 4140 | A202_23.1 S2 M2SB4 | 280 | A202_23.1 P90 BN90S4 | 281 |
| 62 | 161 | 2.6 | 22.8 | 6220 | A302_22.8 S2 M2SB4 | 284 | A302_22.8 P90 BN90S4 | 285 |
| 66 | 151 | 1.0 | 21.4 | 4280 | A102_21.4 S2 M2SB4 | 276 | A102_21.4 P90 BN90S4 | 277 |
| 66 | 150 | 1.7 | 21.2 | 4080 | A202_21.2 S2 M2SB4 | 280 | A202_21.2 P90 BN90S4 | 281 |
| 68 | 145 | 2.8 | 20.5 | 6070 | A302_20.5 S2 M2SB4 | 284 | A302_20.5 P90 BN90S4 | 285 |
| 75 | 131 | 1.1 | 18.6 | 3540 | A102_18.6 S2 M2SB4 | 276 | A102_18.6 P90 BN90S4 | 277 |
| 77 | 128 | 2.0 | 18.1 | 3970 | A202_18.1 S2 M2SB4 | 280 | A202_18.1 P90 BN90S4 | 281 |
| 78 | 127 | 3.2 | 18.0 | 5880 | A302_18.0 S2 M2SB4 | 284 | A302_18.0 P90 BN90S4 | 285 |
| 85 | 116 | 1.3 | 16.4 | 4130 | A102_16.4 S2 M2SB4 | 276 | A102_16.4 P90 BN90S4 | 277 |
| 86 | 115 | 3.3 | 16.3 | 5740 | A302_16.3 S2 M2SB4 | 284 | A302_16.3 P90 BN90S4 | 285 |
| 87 | 114 | 2.2 | 16.2 | 3880 | A202_16.2 S2 M2SB4 | 280 | A202_16.2 P90 BN90S4 | 281 |
| 99 | 99 | 2.5 | 14.1 | 3770 | A202_14.1 S2 M2SB4 | 280 | A202_14.1 P90 BN90S4 | 281 |
| 101 | 98 | 1.0 | 13.9 | 1840 | A052_13.9 S2 M2SB4 | 273 | | |
| 101 | 98 | 1.5 | 13.9 | 3380 | A102_13.9 S2 M2SB4 | 276 | A102_13.9 P90 BN90S4 | 277 |
| 114 | 87 | 1.2 | 12.3 | 1850 | A052_12.3 S2 M2SB4 | 273 | | |
| 114 | 87 | 1.6 | 12.3 | 3300 | A102_12.3 S2 M2SB4 | 276 | A102_12.3 P90 BN90S4 | 277 |
| 117 | 84 | 2.5 | 12.0 | 3620 | A202_12.0 S2 M2SB4 | 280 | A202_12.0 P90 BN90S4 | 281 |
| 133 | 75 | 1.3 | 10.6 | 1810 | A052_10.6 S2 M2SB4 | 273 | | |
| 133 | 75 | 2.0 | 10.6 | 3210 | A102_10.6 S2 M2SB4 | 276 | A102_10.6 P90 BN90S4 | 277 |
| 135 | 73 | 3.1 | 10.3 | 3510 | A202_10.3 S2 M2SB4 | 280 | A202_10.3 P90 BN90S4 | 281 |
| 146 | 68 | 1.5 | 9.6 | 1810 | A052_9.6 S2 M2SB4 | 273 | | |
| 146 | 68 | 2.1 | 9.6 | 3140 | A102_9.6 S2 M2SB4 | 276 | A102_9.6 P90 BN90S4 | 277 |
| 149 | 66 | 3.2 | 9.4 | 3420 | A202_9.4 S2 M2SB4 | 280 | A202_9.4 P90 BN90S4 | 281 |
| 164 | 60 | 1.7 | 8.5 | 1780 | A052_8.5 S2 M2SB4 | 273 | | |
| 164 | 60 | 2.3 | 8.5 | 3630 | A102_8.5 S2 M2SB4 | 276 | A102_8.5 P90 BN90S4 | 277 |

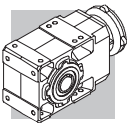


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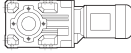



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  | |
|-------------------------------------|----------------------|-----|------|----------------------|---|---|---|-----|
| 194 | 51 | 2.0 | 7.2 | 1730 | A052_7.2 S2 M2SB4 | 273 | | |
| 194 | 51 | 2.8 | 7.2 | 2940 | A102_7.2 S2 M2SB4 | 276 | A102_7.2 P90 BN90S4 | 277 |
| 221 | 45 | 2.2 | 6.3 | 1690 | A052_6.3 S2 M2SB4 | 273 | | |
| 221 | 45 | 3.1 | 6.3 | 3390 | A102_6.3 S2 M2SB4 | 276 | A102_6.3 P90 BN90S4 | 277 |
| 228 | 43 | 3.2 | 12.3 | 2830 | A102_12.3 S2 M2SA2 | 276 | A102_12.3 P80 BN80B2 | 277 |
| 256 | 39 | 2.5 | 5.5 | 1640 | A052_5.5 S2 M2SB4 | 273 | | |
| 291 | 34 | 2.8 | 9.6 | 1600 | A052_9.6 S2 M2SA2 | 273 | A052_9.6 P80 BN80B2 | 273 |
| 329 | 30 | 3.0 | 8.5 | 1560 | A052_8.5 S2 M2SA2 | 273 | A052_8.5 P80 BN80B2 | 273 |
| 388 | 25 | 3.3 | 7.2 | 1500 | A052_7.2 S2 M2SA2 | 273 | A052_7.2 P80 BN80B2 | 273 |
| 442 | 22 | 3.6 | 6.3 | 1450 | A052_6.3 S2 M2SA2 | 273 | A052_6.3 P80 BN80B2 | 273 |
| 512 | 19.3 | 3.9 | 5.5 | 1400 | A052_5.5 S2 M2SA2 | 273 | A052_5.5 P80 BN80B2 | 273 |

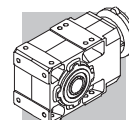
1.5 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  | |
|-------------------------------------|----------------------|-----|-------|----------------------|---|---|---|-----|
| 0.86 | 14767 | 0.9 | 1632 | 75000 | A904_1632 S3 M3SA4 | 314 | A904_1632 P90 BN90LA4 | 315 |
| 0.94 | 13631 | 1.0 | 1507 | 75000 | A904_1507 S3 M3SA4 | 314 | A904_1507 P90 BN90LA4 | 315 |
| 1.1 | 11978 | 1.2 | 1324 | 75000 | A904_1324 S3 M3SA4 | 314 | A904_1324 P90 BN90LA4 | 315 |
| 1.2 | 11057 | 1.3 | 1222 | 75000 | A904_1222 S3 M3SA4 | 314 | A904_1222 P90 BN90LA4 | 315 |
| 1.3 | 10047 | 1.4 | 1111 | 75000 | A904_1111 S3 M3SA4 | 314 | A904_1111 P90 BN90LA4 | 315 |
| 1.4 | 9274 | 1.5 | 1025 | 75000 | A904_1025 S3 M3SA4 | 314 | A904_1025 P90 BN90LA4 | 315 |
| 1.4 | 9060 | 0.9 | 1001 | 65000 | A804_1001 S3 M3SA4 | 311 | A804_1001 P90 BN90LA4 | 312 |
| 1.5 | 8478 | 1.7 | 937.2 | 75000 | A904_937.2 S3 M3SA4 | 314 | A904_937.2 P90 BN90LA4 | 315 |
| 1.6 | 8130 | 1.0 | 898.7 | 65000 | A804_898.7 S3 M3SA4 | 311 | A804_898.7 P90 BN90LA4 | 312 |
| 1.6 | 7826 | 1.8 | 865.1 | 75000 | A904_865.1 S3 M3SA4 | 314 | A904_865.1 P90 BN90LA4 | 315 |
| 1.7 | 7505 | 1.1 | 829.5 | 65000 | A804_829.5 S3 M3SA4 | 311 | A804_829.5 P90 BN90LA4 | 312 |
| 1.8 | 6938 | 2.0 | 766.9 | 75000 | A904_766.9 S3 M3SA4 | 314 | A904_766.9 P90 BN90LA4 | 315 |
| 1.9 | 6894 | 1.2 | 762.1 | 65000 | A804_762.1 S3 M3SA4 | 311 | A804_762.1 P90 BN90LA4 | 312 |
| 2.0 | 6404 | 2.2 | 707.9 | 75000 | A904_707.9 S3 M3SA4 | 314 | A904_707.9 P90 BN90LA4 | 315 |
| 2.0 | 6364 | 1.3 | 703.5 | 65000 | A804_703.5 S3 M3SA4 | 311 | A804_703.5 P90 BN90LA4 | 312 |
| 2.2 | 5832 | 0.9 | 644.6 | 50000 | A704_644.6 S3 M3SA4 | 308 | A704_644.6 P90 BN90LA4 | 309 |
| 2.3 | 5493 | 1.5 | 607.2 | 65000 | A804_607.2 S3 M3SA4 | 311 | A804_607.2 P90 BN90LA4 | 312 |
| 2.3 | 5442 | 2.6 | 601.6 | 75000 | A904_601.6 S3 M3SA4 | 314 | A904_601.6 P90 BN90LA4 | 315 |
| 2.4 | 5383 | 0.9 | 595.0 | 50000 | A704_595.0 S3 M3SA4 | 308 | A704_595.0 P90 BN90LA4 | 309 |
| 2.5 | 5070 | 1.6 | 560.5 | 65000 | A804_560.5 S3 M3SA4 | 311 | A804_560.5 P90 BN90LA4 | 312 |
| 2.5 | 5024 | 2.8 | 555.3 | 75000 | A904_555.3 S3 M3SA4 | 314 | A904_555.3 P90 BN90LA4 | 315 |
| 2.7 | 4663 | 1.1 | 515.4 | 50000 | A704_515.4 S3 M3SA4 | 308 | A704_515.4 P90 BN90LA4 | 309 |
| 2.9 | 4402 | 3.2 | 486.6 | 75000 | A904_486.6 S3 M3SA4 | 314 | A904_486.6 P90 BN90LA4 | 315 |
| 2.9 | 4333 | 1.8 | 478.9 | 65000 | A804_478.9 S3 M3SA4 | 311 | A804_478.9 P90 BN90LA4 | 312 |
| 3.0 | 4304 | 1.2 | 475.8 | 50000 | A704_475.8 S3 M3SA4 | 308 | A704_475.8 P90 BN90LA4 | 309 |
| 3.1 | 4063 | 3.4 | 449.2 | 75000 | A904_449.2 S3 M3SA4 | 314 | A904_449.2 P90 BN90LA4 | 315 |
| 3.2 | 3999 | 2.0 | 442.1 | 65000 | A804_442.1 S3 M3SA4 | 311 | A804_442.1 P90 BN90LA4 | 312 |
| 3.5 | 3620 | 1.4 | 400.2 | 50000 | A704_400.2 S3 M3SA4 | 308 | A704_400.2 P90 BN90LA4 | 309 |
| 3.7 | 3469 | 2.3 | 383.5 | 65000 | A804_383.5 S3 M3SA4 | 311 | A804_383.5 P90 BN90LA4 | 312 |
| 3.8 | 3342 | 1.5 | 369.4 | 50000 | A704_369.4 S3 M3SA4 | 308 | A704_369.4 P90 BN90LA4 | 309 |
| 4.0 | 3202 | 2.5 | 354.0 | 65000 | A804_354.0 S3 M3SA4 | 311 | A804_354.0 P90 BN90LA4 | 312 |
| 4.0 | 3177 | 0.9 | 351.2 | 30000 | A604_351.2 S3 M3SA4 | 304 | A604_351.2 P90 BN90LA4 | 305 |
| 4.3 | 2933 | 1.0 | 324.2 | 30000 | A604_324.2 S3 M3SA4 | 304 | A604_324.2 P90 BN90LA4 | 305 |

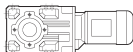





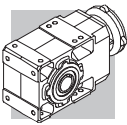
1.5 kW

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 4.5 | 2862 | 1.7 | 316.4 | 50000 | A704_316.4 S3 M3SA4 | 308 | A704_316.4 P90 BN90LA4 | 309 |
| 4.7 | 2718 | 2.9 | 300.4 | 65000 | A804_300.4 S3 M3SA4 | 311 | A804_300.4 P90 BN90LA4 | 312 |
| 4.8 | 2642 | 1.9 | 292.0 | 50000 | A704_292.0 S3 M3SA4 | 308 | A704_292.0 P90 BN90LA4 | 309 |
| 4.9 | 2590 | 1.1 | 286.3 | 30000 | A604_286.3 S3 M3SA4 | 304 | A604_286.3 P90 BN90LA4 | 305 |
| 5.1 | 2509 | 3.2 | 277.3 | 65000 | A804_277.3 S3 M3SA4 | 311 | A804_277.3 P90 BN90LA4 | 312 |
| 5.3 | 2391 | 1.2 | 264.3 | 30000 | A604_264.3 S3 M3SA4 | 304 | A604_264.3 P90 BN90LA4 | 305 |
| 5.9 | 2159 | 2.3 | 238.6 | 50000 | A704_238.6 S3 M3SA4 | 308 | A704_238.6 P90 BN90LA4 | 309 |
| 6.2 | 2046 | 1.4 | 226.1 | 30000 | A604_226.1 S3 M3SA4 | 304 | A604_226.1 P90 BN90LA4 | 305 |
| 6.4 | 1993 | 2.5 | 220.3 | 50000 | A704_220.3 S3 M3SA4 | 308 | A704_220.3 P90 BN90LA4 | 309 |
| 6.8 | 1888 | 1.5 | 208.7 | 30000 | A604_208.7 S3 M3SA4 | 304 | A604_208.7 P90 BN90LA4 | 305 |
| 7.3 | 1796 | 1.1 | 194.2 | 30000 | A553_194.2 S3 M3SA4 | 300 | A553_194.2 P90 BN90LA4 | 301 |
| 7.6 | 1718 | 1.6 | 185.8 | 30000 | A603_185.8 S3 M3SA4 | 304 | A603_185.8 P90 BN90LA4 | 305 |
| 7.7 | 1664 | 3.0 | 183.9 | 50000 | A704_183.9 S3 M3SA4 | 308 | A704_183.9 P90 BN90LA4 | 309 |
| 8.1 | 1619 | 1.2 | 175.0 | 30000 | A553_175.0 S3 M3SA4 | 300 | A553_175.0 P90 BN90LA4 | 301 |
| 8.1 | 1604 | 0.9 | 173.4 | 20000 | A503_173.4 S3 M3SA4 | 296 | A503_173.4 P90 BN90LA4 | 297 |
| 8.2 | 1586 | 1.8 | 171.5 | 30000 | A603_171.5 S3 M3SA4 | 304 | A603_171.5 P90 BN90LA4 | 305 |
| 8.3 | 1536 | 3.3 | 169.8 | 50000 | A704_169.8 S3 M3SA4 | 308 | A704_169.8 P90 BN90LA4 | 309 |
| 8.8 | 1484 | 1.3 | 160.4 | 30000 | A553_160.4 S3 M3SA4 | 300 | A553_160.4 P90 BN90LA4 | 301 |
| 9.0 | 1443 | 1.9 | 156.0 | 30000 | A603_156.0 S3 M3SA4 | 304 | A603_156.0 P90 BN90LA4 | 305 |
| 9.1 | 1430 | 1.0 | 154.6 | 20000 | A503_154.6 S3 M3SA4 | 296 | A503_154.6 P90 BN90LA4 | 297 |
| 9.2 | 1422 | 2.8 | 153.7 | 50000 | A703_153.7 S3 M3SA4 | 308 | A703_153.7 P90 BN90LA4 | 309 |
| 9.6 | 1358 | 1.5 | 146.8 | 30000 | A553_146.8 S3 M3SA4 | 300 | A553_146.8 P90 BN90LA4 | 301 |
| 9.8 | 1332 | 2.1 | 144.0 | 30000 | A603_144.0 S3 M3SA4 | 304 | A603_144.0 P90 BN90LA4 | 305 |
| 10.0 | 1301 | 1.2 | 140.6 | 20000 | A503_140.6 S3 M3SA4 | 296 | A503_140.6 P90 BN90LA4 | 297 |
| 10.6 | 1233 | 2.3 | 133.3 | 30000 | A603_133.3 S3 M3SA4 | 304 | A603_133.3 P90 BN90LA4 | 305 |
| 10.6 | 1228 | 1.6 | 132.7 | 30000 | A553_132.7 S3 M3SA4 | 300 | A553_132.7 P90 BN90LA4 | 301 |
| 10.9 | 1199 | 1.3 | 129.7 | 20000 | A503_129.7 S3 M3SA4 | 296 | A503_129.7 P90 BN90LA4 | 297 |
| 11.4 | 1146 | 1.7 | 123.9 | 30000 | A553_123.9 S3 M3SA4 | 300 | A553_123.9 P90 BN90LA4 | 301 |
| 11.5 | 1138 | 2.5 | 123.0 | 30000 | A603_123.0 S3 M3SA4 | 304 | A603_123.0 P90 BN90LA4 | 305 |
| 12.0 | 1091 | 1.4 | 118.0 | 20000 | A503_118.0 S3 M3SA4 | 296 | A503_118.0 P90 BN90LA4 | 297 |
| 12.9 | 1012 | 1.5 | 109.4 | 20000 | A503_109.4 S3 M3SA4 | 296 | A503_109.4 P90 BN90LA4 | 297 |
| 13.1 | 997 | 2.8 | 107.8 | 30000 | A603_107.8 S3 M3SA4 | 304 | A603_107.8 P90 BN90LA4 | 305 |
| 13.9 | 938 | 2.1 | 101.4 | 30000 | A553_101.4 S3 M3SA4 | 300 | A553_101.4 P90 BN90LA4 | 301 |
| 14.2 | 921 | 1.6 | 99.5 | 20000 | A503_99.5 S3 M3SA4 | 296 | A503_99.5 P90 BN90LA4 | 297 |
| 14.2 | 920 | 3.0 | 99.5 | 30000 | A603_99.5 S3 M3SA4 | 304 | A603_99.5 P90 BN90LA4 | 305 |
| 15.2 | 858 | 0.9 | 92.8 | 15000 | A413_92.8 S3 M3SA4 | 292 | A413_92.8 P90 BN90LA4 | 293 |
| 15.7 | 828 | 1.8 | 89.5 | 20000 | A503_89.5 S3 M3SA4 | 296 | A503_89.5 P90 BN90LA4 | 297 |
| 16.3 | 799 | 3.5 | 86.4 | 30000 | A603_86.4 S3 M3SA4 | 304 | A603_86.4 P90 BN90LA4 | 305 |
| 17.3 | 753 | 2.0 | 81.5 | 20000 | A503_81.5 S3 M3SA4 | 296 | A503_81.5 P90 BN90LA4 | 297 |
| 17.7 | 736 | 2.7 | 79.5 | 30000 | A553_79.5 S3 M3SA4 | 300 | A553_79.5 P90 BN90LA4 | 301 |
| 17.8 | 757 | 1.1 | 79.2 | 15000 | A412_79.2 S3 M3SA4 | 292 | A412_79.2 P90 BN90LA4 | 293 |
| 19.8 | 681 | 1.2 | 71.3 | 15000 | A412_71.3 S3 M3SA4 | 292 | A412_71.3 P90 BN90LA4 | 293 |
| 20.1 | 650 | 2.3 | 70.2 | 20000 | A503_70.2 S3 M3SA4 | 296 | A503_70.2 P90 BN90LA4 | 297 |
| 21.4 | 629 | 1.0 | 65.8 | 11600 | A352_65.8 S3 M3SA4 | 288 | A352_65.8 P90 BN90LA4 | 289 |
| 21.9 | 595 | 3.4 | 64.3 | 30000 | A553_64.3 S3 M3SA4 | 300 | A553_64.3 P90 BN90LA4 | 301 |
| 22.0 | 613 | 1.4 | 64.2 | 15000 | A412_64.2 S3 M3SA4 | 292 | A412_64.2 P90 BN90LA4 | 293 |
| 22.1 | 591 | 2.5 | 63.9 | 20000 | A503_63.9 S3 M3SA4 | 296 | A503_63.9 P90 BN90LA4 | 297 |
| 23.4 | 577 | 1.0 | 60.4 | 11500 | A352_60.4 S3 M3SA4 | 288 | A352_60.4 P90 BN90LA4 | 289 |
| 24.0 | 562 | 1.5 | 58.8 | 15000 | A412_58.8 S3 M3SA4 | 292 | A412_58.8 P90 BN90LA4 | 293 |
| 24.8 | 526 | 2.9 | 56.8 | 20000 | A503_56.8 S3 M3SA4 | 296 | A503_56.8 P90 BN90LA4 | 297 |
| 26.0 | 519 | 1.2 | 54.3 | 11300 | A352_54.3 S3 M3SA4 | 288 | A352_54.3 P90 BN90LA4 | 289 |

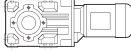



1.5 kW

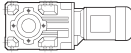

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 26.5 | 508 | 1.7 | 53.1 | 15000 | A412_53.1 S3 M3SA4 | 292 | A412_53.1 P90 BN90LA4 | 293 |
| 27.3 | 478 | 3.1 | 51.7 | 19700 | A503_51.7 S3 M3SA4 | 296 | A503_51.7 P90 BN90LA4 | 297 |
| 28.7 | 469 | 1.3 | 49.1 | 11100 | A352_49.1 S3 M3SA4 | 288 | A352_49.1 P90 BN90LA4 | 289 |
| 29.2 | 461 | 1.8 | 48.3 | 14900 | A412_48.3 S3 M3SA4 | 292 | A412_48.3 P90 BN90LA4 | 293 |
| 31 | 438 | 1.4 | 45.8 | 11000 | A352_45.8 S3 M3SA4 | 288 | A352_45.8 P90 BN90LA4 | 289 |
| 31 | 431 | 1.9 | 45.1 | 14600 | A412_45.1 S3 M3SA4 | 292 | A412_45.1 P90 BN90LA4 | 293 |
| 32 | 415 | 1.0 | 43.4 | 6450 | A302_43.4 S3 M3SA4 | 284 | A302_43.4 P90 BN90LA4 | 285 |
| 34 | 399 | 1.5 | 41.8 | 10800 | A352_41.8 S3 M3SA4 | 288 | A352_41.8 P90 BN90LA4 | 289 |
| 36 | 375 | 1.1 | 39.3 | 6380 | A302_39.3 S3 M3SA4 | 284 | A302_39.3 P90 BN90LA4 | 285 |
| 38 | 350 | 1.2 | 36.6 | 6330 | A302_36.6 S3 M3SA4 | 284 | A302_36.6 P90 BN90LA4 | 285 |
| 38 | 350 | 1.7 | 36.6 | 10500 | A352_36.6 S3 M3SA4 | 288 | A352_36.6 P90 BN90LA4 | 289 |
| 39 | 343 | 2.3 | 35.9 | 13800 | A412_35.9 S3 M3SA4 | 292 | A412_35.9 P90 BN90LA4 | 293 |
| 42 | 319 | 1.3 | 33.4 | 6260 | A302_33.4 S3 M3SA4 | 284 | A302_33.4 P90 BN90LA4 | 285 |
| 43 | 317 | 1.9 | 33.2 | 10300 | A352_33.2 S3 M3SA4 | 288 | A352_33.2 P90 BN90LA4 | 289 |
| 48 | 280 | 1.5 | 29.3 | 6140 | A302_29.3 S3 M3SA4 | 284 | A302_29.3 P90 BN90LA4 | 285 |
| 50 | 272 | 2.2 | 28.4 | 9940 | A352_28.4 S3 M3SA4 | 288 | A352_28.4 P90 BN90LA4 | 289 |
| 50 | 271 | 2.7 | 28.3 | 13000 | A412_28.3 S3 M3SA4 | 292 | A412_28.3 P90 BN90LA4 | 293 |
| 53 | 254 | 1.6 | 26.5 | 6040 | A302_26.5 S3 M3SA4 | 284 | A302_26.5 P90 BN90LA4 | 285 |
| 53 | 253 | 1.0 | 26.5 | 3790 | A202_26.5 S3 M3SA4 | 280 | A202_26.5 P90 BN90LA4 | 281 |
| 55 | 245 | 2.4 | 25.7 | 9710 | A352_25.7 S3 M3SA4 | 288 | A352_25.7 P90 BN90LA4 | 289 |
| 61 | 221 | 1.1 | 23.1 | 3760 | A202_23.1 S3 M3SA4 | 280 | A202_23.1 P90 BN90LA4 | 281 |
| 62 | 217 | 1.9 | 22.8 | 5870 | A302_22.8 S3 M3SA4 | 284 | A302_22.8 P90 BN90LA4 | 285 |
| 62 | 217 | 3.1 | 22.7 | 12200 | A412_22.7 S3 M3SA4 | 292 | A412_22.7 P90 BN90LA4 | 293 |
| 63 | 215 | 2.8 | 22.5 | 9400 | A352_22.5 S3 M3SA4 | 288 | A352_22.5 P90 BN90LA4 | 289 |
| 66 | 203 | 1.2 | 21.2 | 3730 | A202_21.2 S3 M3SA4 | 280 | A202_21.2 P90 BN90LA4 | 281 |
| 69 | 196 | 2.1 | 20.5 | 5760 | A302_20.5 S3 M3SA4 | 284 | A302_20.5 P90 BN90LA4 | 285 |
| 69 | 195 | 3.1 | 20.4 | 9170 | A352_20.4 S3 M3SA4 | 288 | A352_20.4 P90 BN90LA4 | 289 |
| 78 | 173 | 1.4 | 18.1 | 3660 | A202_18.1 S3 M3SA4 | 280 | A202_18.1 P90 BN90LA4 | 281 |
| 78 | 172 | 2.3 | 18.0 | 5600 | A302_18.0 S3 M3SA4 | 284 | A302_18.0 P90 BN90LA4 | 285 |
| 86 | 157 | 1.0 | 16.4 | 3720 | A102_16.4 S3 M3SA4 | 276 | A102_16.4 P90 BN90LA4 | 277 |
| 86 | 156 | 2.5 | 16.3 | 5480 | A302_16.3 S3 M3SA4 | 284 | A302_16.3 P90 BN90LA4 | 285 |
| 87 | 154 | 1.6 | 16.2 | 3600 | A202_16.2 S3 M3SA4 | 280 | A202_16.2 P90 BN90LA4 | 281 |
| 100 | 134 | 1.8 | 14.1 | 3530 | A202_14.1 S3 M3SA4 | 280 | A202_14.1 P90 BN90LA4 | 281 |
| 101 | 133 | 1.1 | 13.9 | 3090 | A102_13.9 S3 M3SA4 | 276 | A102_13.9 P90 BN90LA4 | 277 |
| 104 | 130 | 2.9 | 13.6 | 5250 | A302_13.6 S3 M3SA4 | 284 | A302_13.6 P90 BN90LA4 | 285 |
| 115 | 118 | 1.2 | 12.3 | 3040 | A102_12.3 S3 M3SA4 | 276 | A102_12.3 P90 BN90LA4 | 277 |
| 118 | 114 | 1.8 | 12.0 | 3420 | A202_12.0 S3 M3SA4 | 280 | A202_12.0 P90 BN90LA4 | 281 |
| 120 | 113 | 2.7 | 11.8 | 5060 | A302_11.8 S3 M3SA4 | 284 | A302_11.8 P90 BN90LA4 | 285 |
| 123 | 109 | 3.2 | 22.8 | 5040 | A302_22.8 S2 M2SB2 | 284 | A302_22.8 P90 BN90SA2 | 285 |
| 134 | 101 | 1.5 | 10.6 | 2990 | A102_10.6 S3 M3SA4 | 276 | A102_10.6 P90 BN90LA4 | 277 |
| 135 | 100 | 3.4 | 10.5 | 4930 | A302_10.5 S3 M3SA4 | 284 | A302_10.5 P90 BN90LA4 | 285 |
| 136 | 99 | 2.3 | 10.3 | 3330 | A202_10.3 S3 M3SA4 | 280 | A202_10.3 P90 BN90LA4 | 281 |
| 147 | 92 | 1.5 | 9.6 | 2940 | A102_9.6 S3 M3SA4 | 276 | A102_9.6 P90 BN90LA4 | 277 |
| 150 | 90 | 2.3 | 9.4 | 3250 | A202_9.4 S3 M3SA4 | 280 | A202_9.4 P90 BN90LA4 | 281 |
| 151 | 89 | 3.4 | 9.3 | 4770 | A302_9.3 S3 M3SA4 | 284 | A302_9.3 P90 BN90LA4 | 285 |
| 166 | 81 | 1.7 | 8.5 | 3420 | A102_8.5 S3 M3SA4 | 276 | A102_8.5 P90 BN90LA4 | 277 |
| 168 | 80 | 2.6 | 8.4 | 3180 | A202_8.4 S3 M3SA4 | 280 | A202_8.4 P90 BN90LA4 | 281 |
| 193 | 70 | 3.0 | 7.3 | 3080 | A202_7.3 S3 M3SA4 | 280 | A202_7.3 P90 BN90LA4 | 281 |
| 196 | 69 | 2.0 | 7.2 | 2790 | A102_7.2 S3 M3SA4 | 276 | A102_7.2 P90 BN90LA4 | 277 |
| 216 | 62 | 3.4 | 6.5 | 3000 | A202_6.5 S3 M3SA4 | 280 | A202_6.5 P90 BN90LA4 | 281 |
| 223 | 61 | 2.3 | 6.3 | 3220 | A102_6.3 S3 M3SA4 | 276 | A102_6.3 P90 BN90LA4 | 277 |

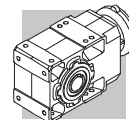


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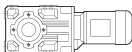




| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |
|----------------------------|-------------|-----|-----|---------------|---|---|
| 258 | 52 | 2.7 | 5.5 | 2630 | A102_5.5 S3 M3SA4 | 276 A102_5.5 P90 BN90LA4 |
| 291 | 46 | 3.0 | 9.6 | 2560 | A102_9.6 S2 M2SB2 | 276 A102_9.6 P90 BN90SA2 |
| 329 | 41 | 3.4 | 8.5 | 2950 | A102_8.5 S2 M2SB2 | 276 A102_8.5 P90 BN90SA2 |
| 388 | 35 | 2.4 | 7.2 | 1420 | A052_7.2 S2 M2SB2 | 273 |
| 442 | 30 | 2.6 | 6.3 | 1380 | A052_6.3 S2 M2SB2 | 273 |
| 512 | 26 | 2.9 | 5.5 | 1340 | A052_5.5 S2 M2SB2 | 273 |

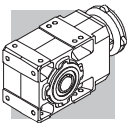
2.2 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |
|----------------------------|-------------|-----|-------|---------------|---|---|
| 1.2 | 16217 | 0.9 | 1222 | 75000 | A904_1222 S3 M3LA4 | 314 A904_1222 P100 BN100LA4 |
| 1.3 | 14736 | 1.0 | 1111 | 75000 | A904_1111 S3 M3LA4 | 314 A904_1111 P100 BN100LA4 |
| 1.4 | 13602 | 1.0 | 1025 | 75000 | A904_1025 S3 M3LA4 | 314 A904_1025 P100 BN100LA4 |
| 1.5 | 12435 | 1.1 | 937.2 | 75000 | A904_937.2 S3 M3LA4 | 314 A904_937.2 P100 BN100LA4 |
| 1.6 | 11479 | 1.2 | 865.1 | 75000 | A904_865.1 S3 M3LA4 | 314 A904_865.1 P100 BN100LA4 |
| 1.8 | 10176 | 1.4 | 766.9 | 75000 | A904_766.9 S3 M3LA4 | 314 A904_766.9 P100 BN100LA4 |
| 2.0 | 9393 | 1.5 | 707.9 | 75000 | A904_707.9 S3 M3LA4 | 314 A904_707.9 P100 BN100LA4 |
| 2.0 | 9334 | 0.9 | 703.5 | 65000 | A804_703.5 S3 M3LA4 | 311 A804_703.5 P100 BN100LA4 |
| 2.3 | 8056 | 1.0 | 607.2 | 65000 | A804_607.2 S3 M3LA4 | 311 A804_607.2 P100 BN100LA4 |
| 2.3 | 7982 | 1.8 | 601.6 | 75000 | A904_601.6 S3 M3LA4 | 314 A904_601.6 P100 BN100LA4 |
| 2.5 | 7436 | 1.1 | 560.5 | 65000 | A804_560.5 S3 M3LA4 | 311 A804_560.5 P100 BN100LA4 |
| 2.5 | 7368 | 1.9 | 555.3 | 75000 | A904_555.3 S3 M3LA4 | 314 A904_555.3 P100 BN100LA4 |
| 2.9 | 6456 | 2.2 | 486.6 | 75000 | A904_486.6 S3 M3LA4 | 314 A904_486.6 P100 BN100LA4 |
| 2.9 | 6355 | 1.3 | 478.9 | 65000 | A804_478.9 S3 M3LA4 | 311 A804_478.9 P100 BN100LA4 |
| 3.1 | 5960 | 2.3 | 449.2 | 75000 | A904_449.2 S3 M3LA4 | 314 A904_449.2 P100 BN100LA4 |
| 3.2 | 5866 | 1.4 | 442.1 | 65000 | A804_442.1 S3 M3LA4 | 311 A804_442.1 P100 BN100LA4 |
| 3.5 | 5310 | 0.9 | 400.2 | 50000 | A704_400.2 S3 M3LA4 | 308 A704_400.2 P100 BN100LA4 |
| 3.7 | 5114 | 2.7 | 385.4 | 75000 | A904_385.4 S3 M3LA4 | 314 A904_385.4 P100 BN100LA4 |
| 3.7 | 5088 | 1.6 | 383.5 | 65000 | A804_383.5 S3 M3LA4 | 311 A804_383.5 P100 BN100LA4 |
| 3.8 | 4901 | 1.0 | 369.4 | 50000 | A704_369.4 S3 M3LA4 | 308 A704_369.4 P100 BN100LA4 |
| 4.0 | 4721 | 3.0 | 355.8 | 75000 | A904_355.8 S3 M3LA4 | 314 A904_355.8 P100 BN100LA4 |
| 4.0 | 4697 | 1.7 | 354.0 | 65000 | A804_354.0 S3 M3LA4 | 311 A804_354.0 P100 BN100LA4 |
| 4.5 | 4198 | 1.2 | 316.4 | 50000 | A704_316.4 S3 M3LA4 | 308 A704_316.4 P100 BN100LA4 |
| 4.6 | 4045 | 3.5 | 304.9 | 75000 | A904_304.9 S3 M3LA4 | 314 A904_304.9 P100 BN100LA4 |
| 4.7 | 3986 | 2.0 | 300.4 | 65000 | A804_300.4 S3 M3LA4 | 311 A804_300.4 P100 BN100LA4 |
| 4.8 | 3875 | 1.3 | 292.0 | 50000 | A704_292.0 S3 M3LA4 | 308 A704_292.0 P100 BN100LA4 |
| 5.1 | 3679 | 2.2 | 277.3 | 65000 | A804_277.3 S3 M3LA4 | 311 A804_277.3 P100 BN100LA4 |
| 5.9 | 3166 | 1.6 | 238.6 | 50000 | A704_238.6 S3 M3LA4 | 308 A704_238.6 P100 BN100LA4 |
| 6.1 | 3087 | 2.6 | 232.6 | 65000 | A804_232.6 S3 M3LA4 | 311 A804_232.6 P100 BN100LA4 |
| 6.2 | 3000 | 0.9 | 226.1 | 30000 | A604_226.1 S3 M3LA4 | 304 A604_226.1 P100 BN100LA4 |
| 6.4 | 2922 | 1.7 | 220.3 | 50000 | A704_220.3 S3 M3LA4 | 308 A704_220.3 P100 BN100LA4 |
| 6.6 | 2849 | 2.8 | 214.7 | 65000 | A804_214.7 S3 M3LA4 | 311 A804_214.7 P100 BN100LA4 |
| 6.8 | 2770 | 1.0 | 208.7 | 30000 | A604_208.7 S3 M3LA4 | 304 A604_208.7 P100 BN100LA4 |
| 7.6 | 2520 | 1.1 | 185.8 | 30000 | A603_185.8 S3 M3LA4 | 304 A603_185.8 P100 BN100LA4 |
| 7.7 | 2440 | 2.0 | 183.9 | 50000 | A704_183.9 S3 M3LA4 | 308 A704_183.9 P100 BN100LA4 |
| 8.2 | 2326 | 1.2 | 171.5 | 30000 | A603_171.5 S3 M3LA4 | 304 A603_171.5 P100 BN100LA4 |
| 8.2 | 2273 | 3.5 | 171.3 | 65000 | A804_171.3 S3 M3LA4 | 311 A804_171.3 P100 BN100LA4 |
| 8.3 | 2252 | 2.2 | 169.8 | 50000 | A704_169.8 S3 M3LA4 | 308 A704_169.8 P100 BN100LA4 |

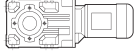





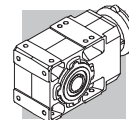
2.2 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 8.8 | 2177 | 0.9 | 160.4 | 30000 | A553_160.4 S3 M3LA4 | 300 | A553_160.4 P100 BN100LA4 | 301 |
| 9.0 | 2117 | 1.3 | 156.0 | 30000 | A603_156.0 S3 M3LA4 | 304 | A603_156.0 P100 BN100LA4 | 305 |
| 9.2 | 2085 | 1.9 | 153.7 | 50000 | A703_153.7 S3 M3LA4 | 308 | A703_153.7 P100 BN100LA4 | 309 |
| 9.6 | 1992 | 1.0 | 146.8 | 30000 | A553_146.8 S3 M3LA4 | 300 | A553_146.8 P100 BN100LA4 | 301 |
| 9.8 | 1954 | 1.4 | 144.0 | 30000 | A603_144.0 S3 M3LA4 | 304 | A603_144.0 P100 BN100LA4 | 305 |
| 9.9 | 1925 | 2.6 | 141.9 | 50000 | A703_141.9 S3 M3LA4 | 308 | A703_141.9 P100 BN100LA4 | 309 |
| 10.6 | 1808 | 1.5 | 133.3 | 30000 | A603_133.3 S3 M3LA4 | 304 | A603_133.3 P100 BN100LA4 | 305 |
| 10.6 | 1801 | 1.1 | 132.7 | 30000 | A553_132.7 S3 M3LA4 | 300 | A553_132.7 P100 BN100LA4 | 301 |
| 10.8 | 1773 | 2.8 | 130.7 | 50000 | A703_130.7 S3 M3LA4 | 308 | A703_130.7 P100 BN100LA4 | 309 |
| 11.4 | 1681 | 1.2 | 123.9 | 30000 | A553_123.9 S3 M3LA4 | 300 | A553_123.9 P100 BN100LA4 | 301 |
| 11.5 | 1669 | 1.7 | 123.0 | 30000 | A603_123.0 S3 M3LA4 | 304 | A603_123.0 P100 BN100LA4 | 305 |
| 11.7 | 1636 | 3.1 | 120.6 | 50000 | A703_120.6 S3 M3LA4 | 308 | A703_120.6 P100 BN100LA4 | 309 |
| 12.0 | 1600 | 0.9 | 118.0 | 20000 | A503_118.0 S3 M3LA4 | 296 | A503_118.0 P100 BN100LA4 | 297 |
| 12.9 | 1485 | 1.0 | 109.4 | 20000 | A503_109.4 S3 M3LA4 | 296 | A503_109.4 P100 BN100LA4 | 297 |
| 13.1 | 1463 | 1.9 | 107.8 | 30000 | A603_107.8 S3 M3LA4 | 304 | A603_107.8 P100 BN100LA4 | 305 |
| 13.5 | 1414 | 3.5 | 104.2 | 50000 | A703_104.2 S3 M3LA4 | 308 | A703_104.2 P100 BN100LA4 | 309 |
| 13.9 | 1375 | 1.5 | 101.4 | 30000 | A553_101.4 S3 M3LA4 | 300 | A553_101.4 P100 BN100LA4 | 301 |
| 14.2 | 1350 | 1.1 | 99.5 | 20000 | A503_99.5 S3 M3LA4 | 296 | A503_99.5 P100 BN100LA4 | 297 |
| 14.2 | 1350 | 2.1 | 99.5 | 30000 | A603_99.5 S3 M3LA4 | 304 | A603_99.5 P100 BN100LA4 | 305 |
| 15.7 | 1215 | 1.2 | 89.5 | 19800 | A503_89.5 S3 M3LA4 | 296 | A503_89.5 P100 BN100LA4 | 297 |
| 16.3 | 1172 | 2.4 | 86.4 | 30000 | A603_86.4 S3 M3LA4 | 304 | A603_86.4 P100 BN100LA4 | 305 |
| 17.3 | 1105 | 1.4 | 81.5 | 19600 | A503_81.5 S3 M3LA4 | 296 | A503_81.5 P100 BN100LA4 | 297 |
| 17.7 | 1082 | 2.6 | 79.7 | 30000 | A603_79.7 S3 M3LA4 | 304 | A603_79.7 P100 BN100LA4 | 305 |
| 17.7 | 1079 | 1.9 | 79.5 | 30000 | A553_79.5 S3 M3LA4 | 300 | A553_79.5 P100 BN100LA4 | 301 |
| 20.0 | 955 | 2.9 | 70.4 | 30000 | A603_70.4 S3 M3LA4 | 304 | A603_70.4 P100 BN100LA4 | 305 |
| 20.1 | 953 | 1.6 | 70.2 | 19300 | A503_70.2 S3 M3LA4 | 296 | A503_70.2 P100 BN100LA4 | 297 |
| 21.7 | 882 | 3.2 | 65.0 | 30000 | A603_65.0 S3 M3LA4 | 304 | A603_65.0 P100 BN100LA4 | 305 |
| 21.9 | 873 | 2.3 | 64.3 | 30000 | A553_64.3 S3 M3LA4 | 300 | A553_64.3 P100 BN100LA4 | 301 |
| 22.0 | 899 | 0.9 | 64.2 | 14500 | A412_64.2 S3 M3LA4 | 292 | A412_64.2 P100 BN100LA4 | 293 |
| 22.1 | 867 | 1.7 | 63.9 | 19000 | A503_63.9 S3 M3LA4 | 296 | A503_63.9 P100 BN100LA4 | 297 |
| 24.0 | 824 | 1.0 | 58.8 | 14400 | A412_58.8 S3 M3LA4 | 292 | A412_58.8 P100 BN100LA4 | 293 |
| 24.8 | 771 | 1.9 | 56.8 | 18600 | A503_56.8 S3 M3LA4 | 296 | A503_56.8 P100 BN100LA4 | 297 |
| 26.5 | 745 | 1.1 | 53.1 | 14100 | A412_53.1 S3 M3LA4 | 292 | A412_53.1 P100 BN100LA4 | 293 |
| 27.3 | 701 | 2.1 | 51.7 | 18300 | A503_51.7 S3 M3LA4 | 296 | A503_51.7 P100 BN100LA4 | 297 |
| 27.7 | 691 | 2.9 | 51.0 | 30000 | A553_51.0 S3 M3LA4 | 300 | A553_51.0 P100 BN100LA4 | 301 |
| 28.7 | 688 | 0.9 | 49.1 | 9900 | A352_49.1 S3 M3LA4 | 288 | A352_49.1 P100 BN100LA4 | 289 |
| 29.2 | 677 | 1.3 | 48.3 | 13900 | A412_48.3 S3 M3LA4 | 292 | A412_48.3 P100 BN100LA4 | 293 |
| 31 | 642 | 0.9 | 45.8 | 9840 | A352_45.8 S3 M3LA4 | 288 | A352_45.8 P100 BN100LA4 | 289 |
| 31 | 632 | 1.3 | 45.1 | 13700 | A412_45.1 S3 M3LA4 | 292 | A412_45.1 P100 BN100LA4 | 293 |
| 31 | 611 | 2.5 | 45.0 | 17900 | A503_45.0 S3 M3LA4 | 296 | A503_45.0 P100 BN100LA4 | 297 |
| 34 | 586 | 1.0 | 41.8 | 9750 | A352_41.8 S3 M3LA4 | 288 | A352_41.8 P100 BN100LA4 | 289 |
| 34 | 555 | 2.7 | 40.9 | 17500 | A503_40.9 S3 M3LA4 | 296 | A503_40.9 P100 BN100LA4 | 297 |
| 38 | 513 | 1.2 | 36.6 | 9600 | A352_36.6 S3 M3LA4 | 288 | A352_36.6 P100 BN100LA4 | 289 |
| 39 | 503 | 1.6 | 35.9 | 13100 | A412_35.9 S3 M3LA4 | 292 | A412_35.9 P100 BN100LA4 | 293 |
| 40 | 483 | 3.1 | 35.6 | 17000 | A503_35.6 S3 M3LA4 | 296 | A503_35.6 P100 BN100LA4 | 297 |
| 43 | 465 | 1.3 | 33.2 | 9460 | A352_33.2 S3 M3LA4 | 288 | A352_33.2 P100 BN100LA4 | 289 |
| 44 | 439 | 3.4 | 32.4 | 16600 | A503_32.4 S3 M3LA4 | 296 | A503_32.4 P100 BN100LA4 | 297 |
| 48 | 411 | 1.0 | 29.3 | 5380 | A302_29.3 S3 M3LA4 | 284 | A302_29.3 P100 BN100LA4 | 285 |
| 50 | 399 | 1.5 | 28.4 | 9230 | A352_28.4 S3 M3LA4 | 288 | A352_28.4 P100 BN100LA4 | 289 |
| 50 | 397 | 1.8 | 28.3 | 12400 | A412_28.3 S3 M3LA4 | 292 | A412_28.3 P100 BN100LA4 | 293 |
| 53 | 372 | 1.1 | 26.5 | 5350 | A302_26.5 S3 M3LA4 | 284 | A302_26.5 P100 BN100LA4 | 285 |

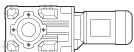





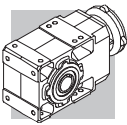
2.2 kW

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 55 | 360 | 1.7 | 25.7 | 9070 | A352_25.7 S3 M3LA4 | 288 | A352_25.7 P100 BN100LA4 | 289 |
| 62 | 319 | 1.3 | 22.8 | 5290 | A302_22.8 S3 M3LA4 | 284 | A302_22.8 P100 BN100LA4 | 285 |
| 62 | 318 | 2.1 | 22.7 | 11700 | A412_22.7 S3 M3LA4 | 292 | A412_22.7 P100 BN100LA4 | 293 |
| 63 | 315 | 1.9 | 22.5 | 8840 | A352_22.5 S3 M3LA4 | 288 | A352_22.5 P100 BN100LA4 | 289 |
| 69 | 288 | 1.4 | 20.5 | 5230 | A302_20.5 S3 M3LA4 | 284 | A302_20.5 P100 BN100LA4 | 285 |
| 69 | 286 | 2.1 | 20.4 | 8660 | A352_20.4 S3 M3LA4 | 288 | A352_20.4 P100 BN100LA4 | 289 |
| 78 | 254 | 1.0 | 18.1 | 3140 | A202_18.1 S3 M3LA4 | 280 | A202_18.1 P100 BN100LA4 | 281 |
| 78 | 252 | 1.6 | 18.0 | 5140 | A302_18.0 S3 M3LA4 | 284 | A302_18.0 P100 BN100LA4 | 285 |
| 79 | 249 | 2.5 | 17.8 | 11000 | A412_17.8 S3 M3LA4 | 292 | A412_17.8 P100 BN100LA4 | 293 |
| 83 | 238 | 2.5 | 17.0 | 8320 | A352_17.0 S3 M3LA4 | 288 | A352_17.0 P100 BN100LA4 | 289 |
| 86 | 229 | 1.7 | 16.3 | 5060 | A302_16.3 S3 M3LA4 | 284 | A302_16.3 P100 BN100LA4 | 285 |
| 87 | 227 | 1.1 | 16.2 | 3140 | A202_16.2 S3 M3LA4 | 280 | A202_16.2 P100 BN100LA4 | 281 |
| 88 | 226 | 2.7 | 16.1 | 10800 | A412_16.1 S3 M3LA4 | 292 | A412_16.1 P100 BN100LA4 | 293 |
| 91 | 217 | 2.8 | 15.5 | 8150 | A352_15.5 S3 M3LA4 | 288 | A352_15.5 P100 BN100LA4 | 289 |
| 100 | 197 | 1.2 | 14.1 | 3120 | A202_14.1 S3 M3LA4 | 280 | A202_14.1 P100 BN100LA4 | 281 |
| 102 | 193 | 3.0 | 13.8 | 10300 | A412_13.8 S3 M3LA4 | 292 | A412_13.8 P100 BN100LA4 | 293 |
| 104 | 190 | 1.9 | 13.6 | 4900 | A302_13.6 S3 M3LA4 | 284 | A302_13.6 P100 BN100LA4 | 285 |
| 108 | 183 | 3.3 | 13.1 | 7820 | A352_13.1 S3 M3LA4 | 288 | A352_13.1 P100 BN100LA4 | 289 |
| 118 | 168 | 1.3 | 12.0 | 3070 | A202_12.0 S3 M3LA4 | 280 | A202_12.0 P100 BN100LA4 | 281 |
| 120 | 165 | 1.8 | 11.8 | 4750 | A302_11.8 S3 M3LA4 | 284 | A302_11.8 P100 BN100LA4 | 285 |
| 120 | 165 | 2.4 | 11.8 | 7710 | A352_11.8 S3 M3LA4 | 288 | A352_11.8 P100 BN100LA4 | 289 |
| 120 | 165 | 3.3 | 11.7 | 9870 | A412_11.7 S3 M3LA4 | 292 | A412_11.7 P100 BN100LA4 | 293 |
| 123 | 160 | 2.0 | 23.1 | 3070 | A202_23.1 S3 M3SA2 | 280 | A202_23.1 P90 BN90L2 | 281 |
| 133 | 149 | 2.7 | 10.6 | 7510 | A352_10.6 S3 M3LA4 | 288 | A352_10.6 P100 BN100LA4 | 289 |
| 134 | 148 | 1.0 | 10.6 | 2600 | A102_10.6 S3 M3LA4 | 276 | A102_10.6 P100 BN100LA4 | 277 |
| 135 | 147 | 2.3 | 10.5 | 4660 | A302_10.5 S3 M3LA4 | 284 | A302_10.5 P100 BN100LA4 | 285 |
| 136 | 145 | 1.6 | 10.3 | 3030 | A202_10.3 S3 M3LA4 | 280 | A202_10.3 P100 BN100LA4 | 281 |
| 147 | 135 | 1.0 | 9.6 | 2580 | A102_9.6 S3 M3LA4 | 276 | A102_9.6 P100 BN100LA4 | 277 |
| 150 | 131 | 1.6 | 9.4 | 2980 | A202_9.4 S3 M3LA4 | 280 | A202_9.4 P100 BN100LA4 | 281 |
| 151 | 130 | 2.3 | 9.3 | 4530 | A302_9.3 S3 M3LA4 | 284 | A302_9.3 P100 BN100LA4 | 285 |
| 151 | 130 | 3.1 | 9.3 | 7240 | A352_9.3 S3 M3LA4 | 288 | A352_9.3 P100 BN100LA4 | 289 |
| 166 | 119 | 1.2 | 8.5 | 3050 | A102_8.5 S3 M3LA4 | 276 | A102_8.5 P100 BN100LA4 | 277 |
| 167 | 119 | 2.5 | 8.5 | 4430 | A302_8.5 S3 M3LA4 | 284 | A302_8.5 P100 BN100LA4 | 285 |
| 167 | 119 | 3.2 | 8.5 | 7060 | A352_8.5 S3 M3LA4 | 288 | A352_8.5 P100 BN100LA4 | 289 |
| 168 | 117 | 1.8 | 8.4 | 2930 | A202_8.4 S3 M3LA4 | 280 | A202_8.4 P100 BN100LA4 | 281 |
| 193 | 102 | 2.1 | 7.3 | 2860 | A202_7.3 S3 M3LA4 | 280 | A202_7.3 P100 BN100LA4 | 281 |
| 196 | 101 | 1.4 | 7.2 | 2520 | A102_7.2 S3 M3LA4 | 276 | A102_7.2 P100 BN100LA4 | 277 |
| 201 | 98 | 3.0 | 7.0 | 4240 | A302_7.0 S3 M3LA4 | 284 | A302_7.0 P100 BN100LA4 | 285 |
| 216 | 92 | 2.3 | 6.5 | 2810 | A202_6.5 S3 M3LA4 | 280 | A202_6.5 P100 BN100LA4 | 281 |
| 220 | 90 | 3.3 | 6.4 | 4150 | A302_6.4 S3 M3LA4 | 284 | A302_6.4 P100 BN100LA4 | 285 |
| 223 | 89 | 1.6 | 6.3 | 2950 | A102_6.3 S3 M3LA4 | 276 | A102_6.3 P100 BN100LA4 | 277 |
| 258 | 77 | 1.8 | 5.5 | 2430 | A102_5.5 S3 M3LA4 | 276 | A102_5.5 P100 BN100LA4 | 277 |
| 263 | 75 | 2.8 | 5.4 | 2700 | A202_5.4 S3 M3LA4 | 280 | A202_5.4 P100 BN100LA4 | 281 |
| 304 | 65 | 3.2 | 9.4 | 2620 | A202_9.4 S3 M3SA2 | 280 | A202_9.4 P90 BN90L2 | 281 |

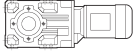






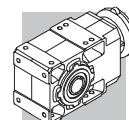
3.0 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 1.6 | 15653 | 0.9 | 865.1 | 75000 | A904_865.1 S3 M3LB4 | 314 | A904_865.1 P100 BN100LB4 | 315 |
| 1.8 | 13876 | 1.0 | 766.9 | 75000 | A904_766.9 S3 M3LB4 | 314 | A904_766.9 P100 BN100LB4 | 315 |
| 2.0 | 12809 | 1.1 | 707.9 | 75000 | A904_707.9 S3 M3LB4 | 314 | A904_707.9 P100 BN100LB4 | 315 |
| 2.3 | 10885 | 1.3 | 601.6 | 75000 | A904_601.6 S3 M3LB4 | 314 | A904_601.6 P100 BN100LB4 | 315 |
| 2.5 | 10047 | 1.4 | 555.3 | 75000 | A904_555.3 S3 M3LB4 | 314 | A904_555.3 P100 BN100LB4 | 315 |
| 2.9 | 8804 | 1.6 | 486.6 | 75000 | A904_486.6 S3 M3LB4 | 314 | A904_486.6 P100 BN100LB4 | 315 |
| 2.9 | 8665 | 0.9 | 478.9 | 65000 | A804_478.9 S3 M3LB4 | 311 | A804_478.9 P100 BN100LB4 | 312 |
| 3.1 | 8127 | 1.7 | 449.2 | 75000 | A904_449.2 S3 M3LB4 | 314 | A904_449.2 P100 BN100LB4 | 315 |
| 3.2 | 7999 | 1.0 | 442.1 | 65000 | A804_442.1 S3 M3LB4 | 311 | A804_442.1 P100 BN100LB4 | 312 |
| 3.7 | 6974 | 2.0 | 385.4 | 75000 | A904_385.4 S3 M3LB4 | 314 | A904_385.4 P100 BN100LB4 | 315 |
| 3.7 | 6938 | 1.2 | 383.5 | 65000 | A804_383.5 S3 M3LB4 | 311 | A804_383.5 P100 BN100LB4 | 312 |
| 4.0 | 6438 | 2.2 | 355.8 | 75000 | A904_355.8 S3 M3LB4 | 314 | A904_355.8 P100 BN100LB4 | 315 |
| 4.0 | 6405 | 1.2 | 354.0 | 65000 | A804_354.0 S3 M3LB4 | 311 | A804_354.0 P100 BN100LB4 | 312 |
| 4.5 | 5724 | 0.9 | 316.4 | 50000 | A704_316.4 S3 M3LB4 | 308 | A704_316.4 P100 BN100LB4 | 309 |
| 4.6 | 5517 | 2.5 | 304.9 | 75000 | A904_304.9 S3 M3LB4 | 314 | A904_304.9 P100 BN100LB4 | 315 |
| 4.7 | 5435 | 1.5 | 300.4 | 65000 | A804_300.4 S3 M3LB4 | 311 | A804_300.4 P100 BN100LB4 | 312 |
| 4.8 | 5284 | 0.9 | 292.0 | 50000 | A704_292.0 S3 M3LB4 | 308 | A704_292.0 P100 BN100LB4 | 309 |
| 5.0 | 5092 | 2.7 | 281.4 | 75000 | A904_281.4 S3 M3LB4 | 314 | A904_281.4 P100 BN100LB4 | 315 |
| 5.1 | 5017 | 1.6 | 277.3 | 65000 | A804_277.3 S3 M3LB4 | 311 | A804_277.3 P100 BN100LB4 | 312 |
| 5.9 | 4317 | 1.2 | 238.6 | 50000 | A704_238.6 S3 M3LB4 | 308 | A704_238.6 P100 BN100LB4 | 309 |
| 6.1 | 4209 | 1.9 | 232.6 | 65000 | A804_232.6 S3 M3LB4 | 311 | A804_232.6 P100 BN100LB4 | 312 |
| 6.2 | 4097 | 3.4 | 226.4 | 75000 | A904_226.4 S3 M3LB4 | 314 | A904_226.4 P100 BN100LB4 | 315 |
| 6.4 | 3985 | 1.3 | 220.3 | 50000 | A704_220.3 S3 M3LB4 | 308 | A704_220.3 P100 BN100LB4 | 309 |
| 6.6 | 3885 | 2.1 | 214.7 | 65000 | A804_214.7 S3 M3LB4 | 311 | A804_214.7 P100 BN100LB4 | 312 |
| 7.7 | 3327 | 1.5 | 183.9 | 50000 | A704_183.9 S3 M3LB4 | 308 | A704_183.9 P100 BN100LB4 | 309 |
| 8.2 | 3172 | 0.9 | 171.5 | 30000 | A603_171.5 S3 M3LB4 | 304 | A603_171.5 P100 BN100LB4 | 305 |
| 8.2 | 3099 | 2.6 | 171.3 | 65000 | A804_171.3 S3 M3LB4 | 311 | A804_171.3 P100 BN100LB4 | 312 |
| 8.3 | 3071 | 1.6 | 169.8 | 50000 | A704_169.8 S3 M3LB4 | 308 | A704_169.8 P100 BN100LB4 | 309 |
| 9.0 | 2901 | 2.8 | 156.8 | 65000 | A803_156.8 S3 M3LB4 | 311 | A803_156.8 P100 BN100LB4 | 312 |
| 9.0 | 2887 | 1.0 | 156.0 | 30000 | A603_156.0 S3 M3LB4 | 304 | A603_156.0 P100 BN100LB4 | 305 |
| 9.2 | 2843 | 1.4 | 153.7 | 50000 | A703_153.7 S3 M3LB4 | 308 | A703_153.7 P100 BN100LB4 | 309 |
| 9.7 | 2678 | 3.0 | 144.7 | 65000 | A803_144.7 S3 M3LB4 | 311 | A803_144.7 P100 BN100LB4 | 312 |
| 9.8 | 2665 | 1.1 | 144.0 | 30000 | A603_144.0 S3 M3LB4 | 304 | A603_144.0 P100 BN100LB4 | 305 |
| 9.9 | 2624 | 1.9 | 141.9 | 50000 | A703_141.9 S3 M3LB4 | 308 | A703_141.9 P100 BN100LB4 | 309 |
| 10.6 | 2466 | 1.1 | 133.3 | 30000 | A603_133.3 S3 M3LB4 | 304 | A603_133.3 P100 BN100LB4 | 305 |
| 10.8 | 2417 | 2.1 | 130.7 | 50000 | A703_130.7 S3 M3LB4 | 308 | A703_130.7 P100 BN100LB4 | 309 |
| 11.2 | 2324 | 3.4 | 125.6 | 65000 | A803_125.6 S3 M3LB4 | 311 | A803_125.6 P100 BN100LB4 | 312 |
| 11.5 | 2276 | 1.2 | 123.0 | 30000 | A603_123.0 S3 M3LB4 | 304 | A603_123.0 P100 BN100LB4 | 305 |
| 11.7 | 2231 | 2.2 | 120.6 | 50000 | A703_120.6 S3 M3LB4 | 308 | A703_120.6 P100 BN100LB4 | 309 |
| 13.1 | 1994 | 1.4 | 107.8 | 30000 | A603_107.8 S3 M3LB4 | 304 | A603_107.8 P100 BN100LB4 | 305 |
| 13.5 | 1928 | 2.6 | 104.2 | 50000 | A703_104.2 S3 M3LB4 | 308 | A703_104.2 P100 BN100LB4 | 309 |
| 13.9 | 1876 | 1.1 | 101.4 | 30000 | A553_101.4 S3 M3LB4 | 300 | A553_101.4 P100 BN100LB4 | 301 |
| 14.2 | 1841 | 1.5 | 99.5 | 30000 | A603_99.5 S3 M3LB4 | 304 | A603_99.5 P100 BN100LB4 | 305 |
| 14.7 | 1780 | 2.8 | 96.2 | 50000 | A703_96.2 S3 M3LB4 | 308 | A703_96.2 P100 BN100LB4 | 309 |
| 15.7 | 1657 | 0.9 | 89.5 | 17100 | A503_89.5 S3 M3LB4 | 296 | A503_89.5 P100 BN100LB4 | 297 |
| 16.3 | 1598 | 1.8 | 86.4 | 30000 | A603_86.4 S3 M3LB4 | 304 | A603_86.4 P100 BN100LB4 | 305 |
| 16.4 | 1590 | 3.1 | 85.9 | 50000 | A703_85.9 S3 M3LB4 | 308 | A703_85.9 P100 BN100LB4 | 309 |
| 17.3 | 1507 | 1.0 | 81.5 | 17200 | A503_81.5 S3 M3LB4 | 296 | A503_81.5 P100 BN100LB4 | 297 |
| 17.7 | 1475 | 1.9 | 79.7 | 30000 | A603_79.7 S3 M3LB4 | 304 | A603_79.7 P100 BN100LB4 | 305 |
| 17.7 | 1471 | 1.4 | 79.5 | 30000 | A553_79.5 S3 M3LB4 | 300 | A553_79.5 P100 BN100LB4 | 301 |
| 17.8 | 1468 | 3.4 | 79.3 | 50000 | A703_79.3 S3 M3LB4 | 308 | A703_79.3 P100 BN100LB4 | 309 |

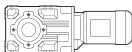
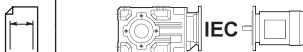



3.0 kW

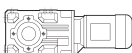
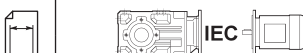

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 20.0 | 1303 | 2.1 | 70.4 | 30000 | A603_70.4 S3 M3LB4 | 304 | A603_70.4 P100 BN100LB4 | 305 |
| 20.1 | 1299 | 1.2 | 70.2 | 17200 | A503_70.2 S3 M3LB4 | 296 | A503_70.2 P100 BN100LB4 | 297 |
| 21.7 | 1202 | 2.3 | 65.0 | 30000 | A603_65.0 S3 M3LB4 | 304 | A603_65.0 P100 BN100LB4 | 305 |
| 21.9 | 1190 | 1.7 | 64.3 | 30000 | A553_64.3 S3 M3LB4 | 300 | A553_64.3 P100 BN100LB4 | 301 |
| 22.1 | 1182 | 1.3 | 63.9 | 17100 | A503_63.9 S3 M3LB4 | 296 | A503_63.9 P100 BN100LB4 | 297 |
| 24.8 | 1051 | 1.4 | 56.8 | 17000 | A503_56.8 S3 M3LB4 | 296 | A503_56.8 P100 BN100LB4 | 297 |
| 25.4 | 1029 | 2.7 | 55.6 | 30000 | A603_55.6 S3 M3LB4 | 304 | A603_55.6 P100 BN100LB4 | 305 |
| 27.3 | 956 | 1.6 | 51.7 | 16800 | A503_51.7 S3 M3LB4 | 296 | A503_51.7 P100 BN100LB4 | 297 |
| 27.5 | 950 | 2.9 | 51.3 | 30000 | A603_51.3 S3 M3LB4 | 304 | A603_51.3 P100 BN100LB4 | 305 |
| 27.7 | 943 | 2.1 | 51.0 | 30000 | A553_51.0 S3 M3LB4 | 300 | A553_51.0 P100 BN100LB4 | 301 |
| 29.2 | 923 | 0.9 | 48.3 | 12700 | A412_48.3 S3 M3LB4 | 292 | A412_48.3 P100 BN100LB4 | 293 |
| 31 | 861 | 1.0 | 45.1 | 12600 | A412_45.1 S3 M3LB4 | 292 | A412_45.1 P100 BN100LB4 | 293 |
| 31 | 836 | 3.3 | 45.2 | 30000 | A603_45.2 S3 M3LB4 | 304 | A603_45.2 P100 BN100LB4 | 305 |
| 31 | 833 | 1.8 | 45.0 | 16500 | A503_45.0 S3 M3LB4 | 296 | A503_45.0 P100 BN100LB4 | 297 |
| 34 | 757 | 2.0 | 40.9 | 16300 | A503_40.9 S3 M3LB4 | 296 | A503_40.9 P100 BN100LB4 | 297 |
| 35 | 746 | 2.7 | 40.3 | 30000 | A553_40.3 S3 M3LB4 | 300 | A553_40.3 P100 BN100LB4 | 301 |
| 38 | 700 | 0.9 | 36.6 | 8550 | A352_36.6 S3 M3LB4 | 288 | A352_36.6 P100 BN100LB4 | 289 |
| 39 | 686 | 1.1 | 35.9 | 12200 | A412_35.9 S3 M3LB4 | 292 | A412_35.9 P100 BN100LB4 | 293 |
| 40 | 659 | 2.3 | 35.6 | 16000 | A503_35.6 S3 M3LB4 | 296 | A503_35.6 P100 BN100LB4 | 297 |
| 43 | 634 | 0.9 | 33.2 | 8520 | A352_33.2 S3 M3LB4 | 288 | A352_33.2 P100 BN100LB4 | 289 |
| 44 | 599 | 2.5 | 32.4 | 15700 | A503_32.4 S3 M3LB4 | 296 | A503_32.4 P100 BN100LB4 | 297 |
| 50 | 543 | 1.1 | 28.4 | 8420 | A352_28.4 S3 M3LB4 | 288 | A352_28.4 P100 BN100LB4 | 289 |
| 50 | 541 | 1.3 | 28.3 | 11700 | A412_28.3 S3 M3LB4 | 292 | A412_28.3 P100 BN100LB4 | 293 |
| 53 | 489 | 3.1 | 26.4 | 15100 | A503_26.4 S3 M3LB4 | 296 | A503_26.4 P100 BN100LB4 | 297 |
| 55 | 491 | 1.2 | 25.7 | 8330 | A352_25.7 S3 M3LB4 | 288 | A352_25.7 P100 BN100LB4 | 289 |
| 59 | 445 | 3.4 | 24.0 | 14800 | A503_24.0 S3 M3LB4 | 296 | A503_24.0 P100 BN100LB4 | 297 |
| 62 | 435 | 0.9 | 22.8 | 4610 | A302_22.8 S3 M3LB4 | 284 | A302_22.8 P100 BN100LB4 | 285 |
| 62 | 433 | 1.6 | 22.7 | 11200 | A412_22.7 S3 M3LB4 | 292 | A412_22.7 P100 BN100LB4 | 293 |
| 63 | 430 | 1.4 | 22.5 | 8190 | A352_22.5 S3 M3LB4 | 288 | A352_22.5 P100 BN100LB4 | 289 |
| 67 | 400 | 3.0 | 20.9 | 15500 | A502_20.9 S3 M3LB4 | 296 | A502_20.9 P100 BN100LB4 | 297 |
| 69 | 392 | 1.0 | 20.5 | 4620 | A302_20.5 S3 M3LB4 | 284 | A302_20.5 P100 BN100LB4 | 285 |
| 69 | 390 | 1.5 | 20.4 | 8080 | A352_20.4 S3 M3LB4 | 288 | A352_20.4 P100 BN100LB4 | 289 |
| 78 | 344 | 1.2 | 18.0 | 4600 | A302_18.0 S3 M3LB4 | 284 | A302_18.0 P100 BN100LB4 | 285 |
| 79 | 339 | 1.9 | 17.8 | 10600 | A412_17.8 S3 M3LB4 | 292 | A412_17.8 P100 BN100LB4 | 293 |
| 83 | 324 | 1.9 | 17.0 | 7830 | A352_17.0 S3 M3LB4 | 288 | A352_17.0 P100 BN100LB4 | 289 |
| 86 | 312 | 1.2 | 16.3 | 4580 | A302_16.3 S3 M3LB4 | 284 | A302_16.3 P100 BN100LB4 | 285 |
| 88 | 308 | 2.0 | 16.1 | 10400 | A412_16.1 S3 M3LB4 | 292 | A412_16.1 P100 BN100LB4 | 293 |
| 91 | 296 | 2.0 | 15.5 | 7700 | A352_15.5 S3 M3LB4 | 288 | A352_15.5 P100 BN100LB4 | 289 |
| 100 | 269 | 0.9 | 14.1 | 2650 | A202_14.1 S3 M3LB4 | 280 | A202_14.1 P100 BN100LB4 | 281 |
| 102 | 263 | 2.2 | 13.8 | 9990 | A412_13.8 S3 M3LB4 | 292 | A412_13.8 P100 BN100LB4 | 293 |
| 104 | 259 | 1.4 | 13.6 | 4500 | A302_13.6 S3 M3LB4 | 284 | A302_13.6 P100 BN100LB4 | 285 |
| 108 | 250 | 2.4 | 13.1 | 7450 | A352_13.1 S3 M3LB4 | 288 | A352_13.1 P100 BN100LB4 | 289 |
| 118 | 229 | 0.9 | 12.0 | 2670 | A202_12.0 S3 M3LB4 | 280 | A202_12.0 P100 BN100LB4 | 281 |
| 120 | 225 | 1.3 | 11.8 | 4400 | A302_11.8 S3 M3LB4 | 284 | A302_11.8 P100 BN100LB4 | 285 |
| 120 | 225 | 1.8 | 11.8 | 7410 | A352_11.8 S3 M3LB4 | 288 | A352_11.8 P100 BN100LB4 | 289 |
| 120 | 224 | 2.5 | 11.7 | 9580 | A412_11.7 S3 M3LB4 | 292 | A412_11.7 P100 BN100LB4 | 293 |
| 124 | 218 | 1.5 | 23.1 | 2690 | A202_23.1 S3 M3LA2 | 280 | A202_23.1 P100 BN100L2 | 281 |
| 133 | 203 | 2.0 | 10.6 | 7230 | A352_10.6 S3 M3LB4 | 288 | A352_10.6 P100 BN100LB4 | 289 |
| 135 | 200 | 1.7 | 10.5 | 4350 | A302_10.5 S3 M3LB4 | 284 | A302_10.5 P100 BN100LB4 | 285 |
| 136 | 198 | 1.1 | 10.3 | 2690 | A202_10.3 S3 M3LB4 | 280 | A202_10.3 P100 BN100LB4 | 281 |
| 139 | 194 | 2.8 | 10.1 | 9230 | A412_10.1 S3 M3LB4 | 292 | A412_10.1 P100 BN100LB4 | 293 |

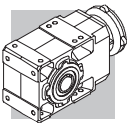


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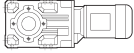




| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  | |
|----------------------------|-------------|-----|------|---------------|---|--|---|-----|
| 150 | 179 | 1.2 | 9.4 | 2670 | A202_9.4 S3 M3LB4 | 280 | A202_9.4 P100 BN100LB4 | 281 |
| 151 | 178 | 1.7 | 9.3 | 4240 | A302_9.3 S3 M3LB4 | 284 | A302_9.3 P100 BN100LB4 | 285 |
| 151 | 178 | 2.2 | 9.3 | 7000 | A352_9.3 S3 M3LB4 | 288 | A352_9.3 P100 BN100LB4 | 289 |
| 153 | 176 | 3.1 | 9.2 | 8980 | A412_9.2 S3 M3LB4 | 292 | A412_9.2 P100 BN100LB4 | 293 |
| 167 | 162 | 1.9 | 8.5 | 4170 | A302_8.5 S3 M3LB4 | 284 | A302_8.5 P100 BN100LB4 | 285 |
| 167 | 162 | 2.4 | 8.5 | 6840 | A352_8.5 S3 M3LB4 | 288 | A352_8.5 P100 BN100LB4 | 289 |
| 168 | 160 | 1.3 | 8.4 | 2650 | A202_8.4 S3 M3LB4 | 280 | A202_8.4 P100 BN100LB4 | 281 |
| 169 | 159 | 3.5 | 8.3 | 8740 | A412_8.3 S3 M3LB4 | 292 | A412_8.3 P100 BN100LB4 | 293 |
| 193 | 139 | 1.5 | 7.3 | 2620 | A202_7.3 S3 M3LB4 | 280 | A202_7.3 P100 BN100LB4 | 281 |
| 196 | 138 | 1.0 | 7.2 | 2220 | A102_7.2 S3 M3LB4 | 276 | A102_7.2 P100 BN100LB4 | 277 |
| 201 | 134 | 2.2 | 7.0 | 4030 | A302_7.0 S3 M3LB4 | 284 | A302_7.0 P100 BN100LB4 | 285 |
| 201 | 134 | 2.8 | 7.0 | 6520 | A352_7.0 S3 M3LB4 | 288 | A352_7.0 P100 BN100LB4 | 289 |
| 216 | 125 | 1.7 | 6.5 | 2590 | A202_6.5 S3 M3LB4 | 280 | A202_6.5 P100 BN100LB4 | 281 |
| 220 | 123 | 2.4 | 6.4 | 3950 | A302_6.4 S3 M3LB4 | 284 | A302_6.4 P100 BN100LB4 | 285 |
| 220 | 123 | 2.9 | 6.4 | 6360 | A352_6.4 S3 M3LB4 | 288 | A352_6.4 P100 BN100LB4 | 289 |
| 223 | 121 | 1.2 | 6.3 | 2640 | A102_6.3 S3 M3LB4 | 276 | A102_6.3 P100 BN100LB4 | 277 |
| 243 | 111 | 2.7 | 11.8 | 3870 | A302_11.8 S3 M3LA2 | 284 | A302_11.8 P100 BN100L2 | 285 |
| 258 | 104 | 1.3 | 5.5 | 2200 | A102_5.5 S3 M3LB4 | 276 | A102_5.5 P100 BN100LB4 | 277 |
| 260 | 103 | 2.9 | 5.4 | 3810 | A302_5.4 S3 M3LB4 | 284 | A302_5.4 P100 BN100LB4 | 285 |
| 260 | 103 | 3.3 | 5.4 | 6070 | A352_5.4 S3 M3LB4 | 288 | A352_5.4 P100 BN100LB4 | 289 |
| 263 | 102 | 2.1 | 5.4 | 2520 | A202_5.4 S3 M3LB4 | 280 | A202_5.4 P100 BN100LB4 | 281 |
| 277 | 97 | 1.9 | 10.3 | 2500 | A202_10.3 S3 M3LA2 | 280 | A202_10.3 P100 BN100L2 | 281 |
| 307 | 88 | 3.4 | 9.3 | 3670 | A302_9.3 S3 M3LA2 | 284 | A302_9.3 P100 BN100L2 | 285 |
| 342 | 79 | 2.7 | 8.4 | 2410 | A202_8.4 S3 M3LA2 | 280 | A202_8.4 P100 BN100L2 | 281 |
| 397 | 68 | 2.1 | 7.2 | 2090 | A102_7.2 S3 M3LA2 | 276 | A102_7.2 P100 BN100L2 | 277 |
| 451 | 60 | 2.3 | 6.3 | 2430 | A102_6.3 S3 M3LA2 | 276 | A102_6.3 P100 BN100L2 | 277 |
| 523 | 51 | 2.6 | 5.5 | 1990 | A102_5.5 S3 M3LA2 | 276 | A102_5.5 P100 BN100L2 | 277 |

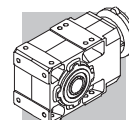
4.0 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  | |
|----------------------------|-------------|-----|-------|---------------|---|--|---|-----|
| 2.3 | 14616 | 1.0 | 601.6 | 75000 | A904_601.6 S3 M3LC4 | 314 | A904_601.6 P112 BN112M4 | 315 |
| 2.5 | 13492 | 1.0 | 555.3 | 75000 | A904_555.3 S3 M3LC4 | 314 | A904_555.3 P112 BN112M4 | 315 |
| 2.9 | 11823 | 1.2 | 486.6 | 75000 | A904_486.6 S3 M3LC4 | 314 | A904_486.6 P112 BN112M4 | 315 |
| 3.1 | 10913 | 1.3 | 449.2 | 75000 | A904_449.2 S3 M3LC4 | 314 | A904_449.2 P112 BN112M4 | 315 |
| 3.6 | 9365 | 1.5 | 385.4 | 75000 | A904_385.4 S3 M3LC4 | 314 | A904_385.4 P112 BN112M4 | 315 |
| 3.7 | 9317 | 0.9 | 383.5 | 65000 | A804_383.5 S3 M3LC4 | 311 | A804_383.5 P112 BN112M4 | 312 |
| 3.9 | 8645 | 1.6 | 355.8 | 75000 | A904_355.8 S3 M3LC4 | 314 | A904_355.8 P112 BN112M4 | 315 |
| 4.0 | 8600 | 0.9 | 354.0 | 65000 | A804_354.0 S3 M3LC4 | 311 | A804_354.0 P112 BN112M4 | 312 |
| 4.6 | 7408 | 1.9 | 304.9 | 75000 | A904_304.9 S3 M3LC4 | 314 | A904_304.9 P112 BN112M4 | 315 |
| 4.7 | 7299 | 1.1 | 300.4 | 65000 | A804_300.4 S3 M3LC4 | 311 | A804_300.4 P112 BN112M4 | 312 |
| 5.0 | 6838 | 2.0 | 281.4 | 75000 | A904_281.4 S3 M3LC4 | 314 | A904_281.4 P112 BN112M4 | 315 |
| 5.0 | 6737 | 1.2 | 277.3 | 65000 | A804_277.3 S3 M3LC4 | 311 | A804_277.3 P112 BN112M4 | 312 |
| 5.9 | 5797 | 0.9 | 238.6 | 50000 | A704_238.6 S3 M3LC4 | 308 | A704_238.6 P112 BN112M4 | 309 |
| 6.0 | 5652 | 1.4 | 232.6 | 65000 | A804_232.6 S3 M3LC4 | 311 | A804_232.6 P112 BN112M4 | 312 |
| 6.2 | 5502 | 2.5 | 226.4 | 75000 | A904_226.4 S3 M3LC4 | 314 | A904_226.4 P112 BN112M4 | 315 |
| 6.4 | 5352 | 0.9 | 220.3 | 50000 | A704_220.3 S3 M3LC4 | 308 | A704_220.3 P112 BN112M4 | 309 |
| 6.5 | 5217 | 1.5 | 214.7 | 65000 | A804_214.7 S3 M3LC4 | 311 | A804_214.7 P112 BN112M4 | 312 |

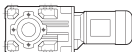






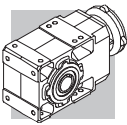
4.0 kW

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 6.7 | 5078 | 2.8 | 209.0 | 75000 | A904_209.0 S3 M3LC4 | 314 | A904_209.0 P112 BN112M4 | 315 |
| 7.6 | 4468 | 1.1 | 183.9 | 50000 | A704_183.9 S3 M3LC4 | 308 | A704_183.9 P112 BN112M4 | 309 |
| 7.8 | 4373 | 3.2 | 180.0 | 75000 | A904_180.0 S3 M3LC4 | 314 | A904_180.0 P112 BN112M4 | 315 |
| 8.2 | 4162 | 1.9 | 171.3 | 65000 | A804_171.3 S3 M3LC4 | 311 | A804_171.3 P112 BN112M4 | 312 |
| 8.2 | 4125 | 1.2 | 169.8 | 50000 | A704_169.8 S3 M3LC4 | 308 | A704_169.8 P112 BN112M4 | 309 |
| 8.4 | 4036 | 3.5 | 166.1 | 75000 | A904_166.1 S3 M3LC4 | 314 | A904_166.1 P112 BN112M4 | 315 |
| 8.9 | 3895 | 2.1 | 156.8 | 65000 | A803_156.8 S3 M3LC4 | 311 | A803_156.8 P112 BN112M4 | 312 |
| 9.1 | 3818 | 1.1 | 153.7 | 50000 | A703_153.7 S3 M3LC4 | 308 | A703_153.7 P112 BN112M4 | 309 |
| 9.7 | 3596 | 2.2 | 144.7 | 65000 | A803_144.7 S3 M3LC4 | 311 | A803_144.7 P112 BN112M4 | 312 |
| 9.9 | 3524 | 1.4 | 141.9 | 50000 | A703_141.9 S3 M3LC4 | 308 | A703_141.9 P112 BN112M4 | 309 |
| 10.7 | 3246 | 1.5 | 130.7 | 50000 | A703_130.7 S3 M3LC4 | 308 | A703_130.7 P112 BN112M4 | 309 |
| 11.1 | 3121 | 2.6 | 125.6 | 65000 | A803_125.6 S3 M3LC4 | 311 | A803_125.6 P112 BN112M4 | 312 |
| 11.4 | 3056 | 0.9 | 123.0 | 30000 | A603_123.0 S3 M3LC4 | 304 | A603_123.0 P112 BN112M4 | 305 |
| 11.6 | 2996 | 1.7 | 120.6 | 50000 | A703_120.6 S3 M3LC4 | 308 | A703_120.6 P112 BN112M4 | 309 |
| 12.1 | 2881 | 2.8 | 116.0 | 65000 | A803_116.0 S3 M3LC4 | 311 | A803_116.0 P112 BN112M4 | 312 |
| 13.0 | 2678 | 1.0 | 107.8 | 30000 | A603_107.8 S3 M3LC4 | 304 | A603_107.8 P112 BN112M4 | 305 |
| 13.4 | 2590 | 1.9 | 104.2 | 50000 | A703_104.2 S3 M3LC4 | 308 | A703_104.2 P112 BN112M4 | 309 |
| 13.5 | 2584 | 3.1 | 104.0 | 65000 | A803_104.0 S3 M3LC4 | 311 | A803_104.0 P112 BN112M4 | 312 |
| 14.1 | 2472 | 1.1 | 99.5 | 30000 | A603_99.5 S3 M3LC4 | 304 | A603_99.5 P112 BN112M4 | 305 |
| 14.6 | 2390 | 2.1 | 96.2 | 50000 | A703_96.2 S3 M3LC4 | 308 | A703_96.2 P112 BN112M4 | 309 |
| 14.6 | 2386 | 3.4 | 96.0 | 65000 | A803_96.0 S3 M3LC4 | 311 | A803_96.0 P112 BN112M4 | 312 |
| 16.2 | 2146 | 1.3 | 86.4 | 30000 | A603_86.4 S3 M3LC4 | 304 | A603_86.4 P112 BN112M4 | 305 |
| 16.3 | 2135 | 2.3 | 85.9 | 50000 | A703_85.9 S3 M3LC4 | 308 | A703_85.9 P112 BN112M4 | 309 |
| 17.6 | 1980 | 1.4 | 79.7 | 30000 | A603_79.7 S3 M3LC4 | 304 | A603_79.7 P112 BN112M4 | 305 |
| 17.6 | 1976 | 1.0 | 79.5 | 30000 | A553_79.5 S3 M3LC4 | 300 | A553_79.5 P112 BN112M4 | 301 |
| 17.6 | 1971 | 2.5 | 79.3 | 50000 | A703_79.3 S3 M3LC4 | 308 | A703_79.3 P112 BN112M4 | 309 |
| 19.3 | 1802 | 2.8 | 72.5 | 50000 | A703_72.5 S3 M3LC4 | 308 | A703_72.5 P112 BN112M4 | 309 |
| 19.9 | 1749 | 1.6 | 70.4 | 30000 | A603_70.4 S3 M3LC4 | 304 | A603_70.4 P112 BN112M4 | 305 |
| 20.9 | 1663 | 3.0 | 66.9 | 50000 | A703_66.9 S3 M3LC4 | 308 | A703_66.9 P112 BN112M4 | 309 |
| 21.5 | 1615 | 1.7 | 65.0 | 30000 | A603_65.0 S3 M3LC4 | 304 | A603_65.0 P112 BN112M4 | 305 |
| 21.8 | 1598 | 1.3 | 64.3 | 30000 | A553_64.3 S3 M3LC4 | 300 | A553_64.3 P112 BN112M4 | 301 |
| 21.9 | 1587 | 0.9 | 63.9 | 14700 | A503_63.9 S3 M3LC4 | 296 | A503_63.9 P112 BN112M4 | 297 |
| 24.6 | 1411 | 1.1 | 56.8 | 14800 | A503_56.8 S3 M3LC4 | 296 | A503_56.8 P112 BN112M4 | 297 |
| 25.2 | 1381 | 2.0 | 55.6 | 30000 | A603_55.6 S3 M3LC4 | 304 | A603_55.6 P112 BN112M4 | 305 |
| 27.1 | 1284 | 1.2 | 51.7 | 14900 | A503_51.7 S3 M3LC4 | 296 | A503_51.7 P112 BN112M4 | 297 |
| 27.3 | 1275 | 2.2 | 51.3 | 30000 | A603_51.3 S3 M3LC4 | 304 | A603_51.3 P112 BN112M4 | 305 |
| 28 | 1266 | 1.6 | 51.0 | 30000 | A553_51.0 S3 M3LC4 | 300 | A553_51.0 P112 BN112M4 | 301 |
| 31 | 1123 | 2.5 | 45.2 | 30000 | A603_45.2 S3 M3LC4 | 304 | A603_45.2 P112 BN112M4 | 305 |
| 31 | 1118 | 1.3 | 45.0 | 14900 | A503_45.0 S3 M3LC4 | 296 | A503_45.0 P112 BN112M4 | 297 |
| 34 | 1036 | 2.7 | 41.7 | 30000 | A603_41.7 S3 M3LC4 | 304 | A603_41.7 P112 BN112M4 | 305 |
| 34 | 1017 | 1.5 | 40.9 | 14800 | A503_40.9 S3 M3LC4 | 296 | A503_40.9 P112 BN112M4 | 297 |
| 35 | 1001 | 2.0 | 40.3 | 30000 | A553_40.3 S3 M3LC4 | 300 | A553_40.3 P112 BN112M4 | 301 |
| 39 | 884 | 1.7 | 35.6 | 14700 | A503_35.6 S3 M3LC4 | 296 | A503_35.6 P112 BN112M4 | 297 |
| 41 | 852 | 3.3 | 34.3 | 30000 | A603_34.3 S3 M3LC4 | 304 | A603_34.3 P112 BN112M4 | 305 |
| 43 | 804 | 1.9 | 32.4 | 14500 | A503_32.4 S3 M3LC4 | 296 | A503_32.4 P112 BN112M4 | 297 |
| 47 | 744 | 2.7 | 29.9 | 30000 | A553_29.9 S3 M3LC4 | 300 | A553_29.9 P112 BN112M4 | 301 |
| 49 | 727 | 1.0 | 28.3 | 10900 | A412_28.3 S3 M3LC4 | 292 | A412_28.3 P112 BN112M4 | 293 |
| 53 | 657 | 2.3 | 26.4 | 14100 | A503_26.4 S3 M3LC4 | 296 | A503_26.4 P112 BN112M4 | 297 |
| 55 | 659 | 0.9 | 25.7 | 7420 | A352_25.7 S3 M3LC4 | 288 | A352_25.7 P112 BN112M4 | 289 |
| 58 | 597 | 2.5 | 24.0 | 13900 | A503_24.0 S3 M3LC4 | 296 | A503_24.0 P112 BN112M4 | 297 |
| 59 | 591 | 3.3 | 23.8 | 30000 | A553_23.8 S3 M3LC4 | 300 | A553_23.8 P112 BN112M4 | 301 |

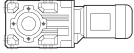





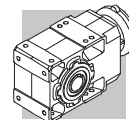
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| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 62 | 582 | 1.2 | 22.7 | 10500 | A412_22.7 S3 M3LC4 | 292 | A412_22.7 P112 BN112M4 | 293 |
| 62 | 577 | 1.0 | 22.5 | 7400 | A352_22.5 S3 M3LC4 | 288 | A352_22.5 P112 BN112M4 | 289 |
| 67 | 537 | 2.2 | 20.9 | 15100 | A502_20.9 S3 M3LC4 | 296 | A502_20.9 P112 BN112M4 | 297 |
| 69 | 524 | 1.1 | 20.4 | 7360 | A352_20.4 S3 M3LC4 | 288 | A352_20.4 P112 BN112M4 | 289 |
| 78 | 462 | 0.9 | 18.0 | 3930 | A302_18.0 S3 M3LC4 | 284 | A302_18.0 P112 BN112M4 | 285 |
| 79 | 456 | 1.4 | 17.8 | 10100 | A412_17.8 S3 M3LC4 | 292 | A412_17.8 P112 BN112M4 | 293 |
| 83 | 435 | 1.4 | 17.0 | 7240 | A352_17.0 S3 M3LC4 | 288 | A352_17.0 P112 BN112M4 | 289 |
| 84 | 425 | 2.8 | 16.6 | 14200 | A502_16.6 S3 M3LC4 | 296 | A502_16.6 P112 BN112M4 | 297 |
| 86 | 419 | 0.9 | 16.3 | 3970 | A302_16.3 S3 M3LC4 | 284 | A302_16.3 P112 BN112M4 | 285 |
| 87 | 413 | 1.5 | 16.1 | 9940 | A412_16.1 S3 M3LC4 | 292 | A412_16.1 P112 BN112M4 | 293 |
| 90 | 397 | 1.5 | 15.5 | 7160 | A352_15.5 S3 M3LC4 | 288 | A352_15.5 P112 BN112M4 | 289 |
| 102 | 353 | 1.7 | 13.8 | 9610 | A412_13.8 S3 M3LC4 | 292 | A412_13.8 P112 BN112M4 | 293 |
| 103 | 348 | 1.1 | 13.6 | 4000 | A302_13.6 S3 M3LC4 | 284 | A302_13.6 P112 BN112M4 | 285 |
| 107 | 336 | 3.3 | 13.1 | 13300 | A502_13.1 S3 M3LC4 | 296 | A502_13.1 P112 BN112M4 | 297 |
| 107 | 335 | 1.8 | 13.1 | 7000 | A352_13.1 S3 M3LC4 | 288 | A352_13.1 P112 BN112M4 | 289 |
| 119 | 302 | 1.0 | 11.8 | 3960 | A302_11.8 S3 M3LC4 | 284 | A302_11.8 P112 BN112M4 | 285 |
| 119 | 302 | 1.3 | 11.8 | 7050 | A352_11.8 S3 M3LC4 | 288 | A352_11.8 P112 BN112M4 | 289 |
| 119 | 301 | 1.8 | 11.7 | 9260 | A412_11.7 S3 M3LC4 | 292 | A412_11.7 P112 BN112M4 | 293 |
| 126 | 285 | 1.2 | 22.8 | 3980 | A302_22.8 S3 M3LB2 | 284 | A302_22.8 P112 BN112M2 | 285 |
| 132 | 273 | 1.5 | 10.6 | 6910 | A352_10.6 S3 M3LC4 | 288 | A352_10.6 P112 BN112M4 | 289 |
| 134 | 268 | 1.3 | 10.5 | 3970 | A302_10.5 S3 M3LC4 | 284 | A302_10.5 P112 BN112M4 | 285 |
| 138 | 260 | 2.1 | 10.1 | 8960 | A412_10.1 S3 M3LC4 | 292 | A412_10.1 P112 BN112M4 | 293 |
| 150 | 239 | 1.3 | 9.3 | 3900 | A302_9.3 S3 M3LC4 | 284 | A302_9.3 P112 BN112M4 | 285 |
| 150 | 239 | 1.7 | 9.3 | 6730 | A352_9.3 S3 M3LC4 | 288 | A352_9.3 P112 BN112M4 | 289 |
| 152 | 236 | 2.3 | 9.2 | 8740 | A412_9.2 S3 M3LC4 | 292 | A412_9.2 P112 BN112M4 | 293 |
| 165 | 217 | 1.4 | 8.5 | 3860 | A302_8.5 S3 M3LC4 | 284 | A302_8.5 P112 BN112M4 | 285 |
| 165 | 217 | 1.8 | 8.5 | 6590 | A352_8.5 S3 M3LC4 | 288 | A352_8.5 P112 BN112M4 | 289 |
| 167 | 215 | 1.0 | 8.4 | 2300 | A202_8.4 S3 M3LC4 | 280 | A202_8.4 P112 BN112M4 | 281 |
| 168 | 214 | 2.6 | 8.3 | 8520 | A412_8.3 S3 M3LC4 | 292 | A412_8.3 P112 BN112M4 | 293 |
| 192 | 187 | 1.1 | 7.3 | 2310 | A202_7.3 S3 M3LC4 | 280 | A202_7.3 P112 BN112M4 | 281 |
| 197 | 183 | 3.0 | 7.1 | 8180 | A412_7.1 S3 M3LC4 | 292 | A412_7.1 P112 BN112M4 | 293 |
| 199 | 180 | 1.7 | 7.0 | 3770 | A302_7.0 S3 M3LC4 | 284 | A302_7.0 P112 BN112M4 | 285 |
| 199 | 180 | 2.1 | 7.0 | 6310 | A352_7.0 S3 M3LC4 | 288 | A352_7.0 P112 BN112M4 | 289 |
| 214 | 168 | 1.3 | 6.5 | 2310 | A202_6.5 S3 M3LC4 | 280 | A202_6.5 P112 BN112M4 | 281 |
| 218 | 165 | 1.8 | 6.4 | 3720 | A302_6.4 S3 M3LC4 | 284 | A302_6.4 P112 BN112M4 | 285 |
| 218 | 165 | 2.1 | 6.4 | 6180 | A352_6.4 S3 M3LC4 | 288 | A352_6.4 P112 BN112M4 | 289 |
| 256 | 140 | 1.0 | 5.5 | 1910 | A102_5.5 S3 M3LC4 | 276 | A102_5.5 P112 BN112M4 | 277 |
| 259 | 139 | 2.2 | 5.4 | 3610 | A302_5.4 S3 M3LC4 | 284 | A302_5.4 P112 BN112M4 | 285 |
| 259 | 139 | 2.4 | 5.4 | 5920 | A352_5.4 S3 M3LC4 | 288 | A352_5.4 P112 BN112M4 | 289 |
| 262 | 137 | 1.5 | 5.4 | 2300 | A202_5.4 S3 M3LC4 | 280 | A202_5.4 P112 BN112M4 | 281 |
| 270 | 133 | 3.0 | 10.6 | 5850 | A352_10.6 S3 M3LB2 | 288 | A352_10.6 P112 BN112M2 | 289 |
| 308 | 117 | 3.4 | 9.3 | 5650 | A352_9.3 S3 M3LB2 | 288 | A352_9.3 P112 BN112M2 | 289 |
| 343 | 105 | 2.1 | 8.4 | 2230 | A202_8.4 S3 M3LB2 | 280 | A202_8.4 P112 BN112M2 | 281 |
| 409 | 88 | 3.4 | 7.0 | 3280 | A302_7.0 S3 M3LB2 | 284 | A302_7.0 P112 BN112M2 | 285 |
| 453 | 79 | 1.7 | 6.3 | 2240 | A102_6.3 S3 M3LB2 | 276 | A102_6.3 P112 BN112M2 | 277 |
| 536 | 67 | 2.8 | 5.4 | 2080 | A202_5.4 S3 M3LB2 | 280 | A202_5.4 P112 BN112M2 | 281 |

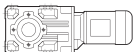






5.5 kW






| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 3.0 | 15805 | 0.9 | 486.6 | 75000 | A904_486.6 S4 M4SA4 | 314 | A904_486.6 P132 BN132S4 | 315 |
| 3.2 | 14589 | 1.0 | 449.2 | 75000 | A904_449.2 S4 M4SA4 | 314 | A904_449.2 P132 BN132S4 | 315 |
| 3.7 | 12519 | 1.1 | 385.4 | 75000 | A904_385.4 S4 M4SA4 | 314 | A904_385.4 P132 BN132S4 | 315 |
| 4.0 | 11556 | 1.2 | 355.8 | 75000 | A904_355.8 S4 M4SA4 | 314 | A904_355.8 P132 BN132S4 | 315 |
| 4.7 | 9903 | 1.4 | 304.9 | 75000 | A904_304.9 S4 M4SA4 | 314 | A904_304.9 P132 BN132S4 | 315 |
| 5.1 | 9141 | 1.5 | 281.4 | 75000 | A904_281.4 S4 M4SA4 | 314 | A904_281.4 P132 BN132S4 | 315 |
| 5.2 | 9006 | 0.9 | 277.3 | 65000 | A804_277.3 S4 M4SA4 | 311 | A804_277.3 P132 BN132S4 | 312 |
| 6.2 | 7556 | 1.1 | 232.6 | 65000 | A804_232.6 S4 M4SA4 | 311 | A804_232.6 P132 BN132S4 | 312 |
| 6.4 | 7354 | 1.9 | 226.4 | 75000 | A904_226.4 S4 M4SA4 | 314 | A904_226.4 P132 BN132S4 | 315 |
| 6.7 | 6975 | 1.1 | 214.7 | 65000 | A804_214.7 S4 M4SA4 | 311 | A804_214.7 P132 BN132S4 | 312 |
| 6.9 | 6789 | 2.1 | 209.0 | 75000 | A904_209.0 S4 M4SA4 | 314 | A904_209.0 P132 BN132S4 | 315 |
| 8.0 | 5846 | 2.4 | 180.0 | 75000 | A904_180.0 S4 M4SA4 | 314 | A904_180.0 P132 BN132S4 | 315 |
| 8.4 | 5564 | 1.4 | 171.3 | 65000 | A804_171.3 S4 M4SA4 | 311 | A804_171.3 P132 BN132S4 | 312 |
| 8.5 | 5514 | 0.9 | 169.8 | 50000 | A704_169.8 S4 M4SA4 | 308 | A704_169.8 P132 BN132S4 | 309 |
| 8.7 | 5396 | 2.6 | 166.1 | 75000 | A904_166.1 S4 M4SA4 | 314 | A904_166.1 P132 BN132S4 | 315 |
| 9.2 | 5207 | 1.5 | 156.8 | 65000 | A803_156.8 S4 M4SA4 | 311 | A803_156.8 P132 BN132S4 | 312 |
| 9.5 | 5015 | 2.8 | 151.0 | 75000 | A903_151.0 S4 M4SA4 | 314 | A903_151.0 P132 BN132S4 | 315 |
| 9.9 | 4807 | 1.7 | 144.7 | 65000 | A803_144.7 S4 M4SA4 | 311 | A803_144.7 P132 BN132S4 | 312 |
| 10.2 | 4711 | 1.1 | 141.9 | 50000 | A703_141.9 S4 M4SA4 | 308 | A703_141.9 P132 BN132S4 | 309 |
| 10.3 | 4629 | 2.8 | 139.4 | 75000 | A903_139.4 S4 M4SA4 | 314 | A903_139.4 P132 BN132S4 | 315 |
| 11.0 | 4339 | 1.2 | 130.7 | 50000 | A703_130.7 S4 M4SA4 | 308 | A703_130.7 P132 BN132S4 | 309 |
| 11.4 | 4206 | 3.1 | 126.6 | 75000 | A903_126.6 S4 M4SA4 | 314 | A903_126.6 P132 BN132S4 | 315 |
| 11.5 | 4172 | 1.9 | 125.6 | 65000 | A803_125.6 S4 M4SA4 | 311 | A803_125.6 P132 BN132S4 | 312 |
| 11.9 | 4006 | 1.2 | 120.6 | 50000 | A703_120.6 S4 M4SA4 | 308 | A703_120.6 P132 BN132S4 | 309 |
| 12.4 | 3851 | 2.1 | 116.0 | 65000 | A803_116.0 S4 M4SA4 | 311 | A803_116.0 P132 BN132S4 | 312 |
| 13.8 | 3462 | 1.4 | 104.2 | 50000 | A703_104.2 S4 M4SA4 | 308 | A703_104.2 P132 BN132S4 | 309 |
| 13.8 | 3455 | 2.3 | 104.0 | 65000 | A803_104.0 S4 M4SA4 | 311 | A803_104.0 P132 BN132S4 | 312 |
| 15.0 | 3195 | 1.6 | 96.2 | 50000 | A703_96.2 S4 M4SA4 | 308 | A703_96.2 P132 BN132S4 | 309 |
| 15.0 | 3189 | 2.5 | 96.0 | 65000 | A803_96.0 S4 M4SA4 | 311 | A803_96.0 P132 BN132S4 | 312 |
| 16.1 | 2962 | 2.7 | 89.2 | 65000 | A803_89.2 S4 M4SA4 | 311 | A803_89.2 P132 BN132S4 | 312 |
| 16.7 | 2868 | 1.0 | 86.4 | 30000 | A603_86.4 S4 M4SA4 | 304 | A603_86.4 P132 BN132S4 | 305 |
| 16.8 | 2854 | 1.8 | 85.9 | 50000 | A703_85.9 S4 M4SA4 | 308 | A703_85.9 P132 BN132S4 | 309 |
| 17.5 | 2734 | 2.9 | 82.3 | 65000 | A803_82.3 S4 M4SA4 | 311 | A803_82.3 P132 BN132S4 | 312 |
| 18.1 | 2648 | 1.1 | 79.7 | 30000 | A603_79.7 S4 M4SA4 | 304 | A603_79.7 P132 BN132S4 | 305 |
| 18.2 | 2635 | 1.9 | 79.3 | 50000 | A703_79.3 S4 M4SA4 | 308 | A703_79.3 P132 BN132S4 | 309 |
| 19.9 | 2408 | 2.1 | 72.5 | 50000 | A703_72.5 S4 M4SA4 | 308 | A703_72.5 P132 BN132S4 | 309 |
| 19.9 | 2403 | 3.3 | 72.4 | 65000 | A803_72.4 S4 M4SA4 | 311 | A803_72.4 P132 BN132S4 | 312 |
| 20.5 | 2338 | 1.2 | 70.4 | 30000 | A603_70.4 S4 M4SA4 | 304 | A603_70.4 P132 BN132S4 | 305 |
| 21.5 | 2223 | 2.2 | 66.9 | 50000 | A703_66.9 S4 M4SA4 | 308 | A703_66.9 P132 BN132S4 | 309 |
| 22.2 | 2158 | 1.3 | 65.0 | 30000 | A603_65.0 S4 M4SA4 | 304 | A603_65.0 P132 BN132S4 | 305 |
| 22.4 | 2136 | 0.9 | 64.3 | 30000 | A553_64.3 S4 M4SA4 | 300 | A553_64.3 P132 BN132S4 | 301 |
| 25.0 | 1915 | 2.6 | 57.7 | 50000 | A703_57.7 S4 M4SA4 | 308 | A703_57.7 P132 BN132S4 | 309 |
| 25.9 | 1847 | 1.5 | 55.6 | 30000 | A603_55.6 S4 M4SA4 | 304 | A603_55.6 P132 BN132S4 | 305 |
| 27.1 | 1768 | 2.8 | 53.2 | 50000 | A703_53.2 S4 M4SA4 | 308 | A703_53.2 P132 BN132S4 | 309 |
| 28.1 | 1705 | 1.6 | 51.3 | 30000 | A603_51.3 S4 M4SA4 | 304 | A603_51.3 P132 BN132S4 | 305 |
| 28.3 | 1692 | 1.2 | 51.0 | 30000 | A553_51.0 S4 M4SA4 | 300 | A553_51.0 P132 BN132S4 | 301 |
| 29.4 | 1627 | 3.1 | 49.0 | 50000 | A703_49.0 S4 M4SA4 | 308 | A703_49.0 P132 BN132S4 | 309 |
| 32 | 1502 | 3.2 | 45.2 | 50000 | A703_45.2 S4 M4SA4 | 308 | A703_45.2 P132 BN132S4 | 309 |
| 32 | 1501 | 1.9 | 45.2 | 30000 | A603_45.2 S4 M4SA4 | 304 | A603_45.2 P132 BN132S4 | 305 |
| 32 | 1495 | 1.0 | 45.0 | 12400 | A503_45.0 S4 M4SA4 | 296 | A503_45.0 P132 BN132S4 | 297 |
| 35 | 1385 | 2.0 | 41.7 | 30000 | A603_41.7 S4 M4SA4 | 304 | A603_41.7 P132 BN132S4 | 305 |

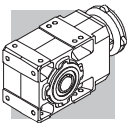


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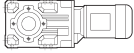




| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 35 | 1360 | 1.1 | 40.9 | 12600 | A503_40.9 S4 M4SA4 | 296 | A503_40.9 P132 BN132S4 | 297 |
| 36 | 1338 | 1.5 | 40.3 | 30000 | A553_40.3 S4 M4SA4 | 300 | A553_40.3 P132 BN132S4 | 301 |
| 40 | 1182 | 1.3 | 35.6 | 12700 | A503_35.6 S4 M4SA4 | 296 | A503_35.6 P132 BN132S4 | 297 |
| 42 | 1139 | 2.5 | 34.3 | 30000 | A603_34.3 S4 M4SA4 | 304 | A603_34.3 P132 BN132S4 | 305 |
| 44 | 1075 | 1.4 | 32.4 | 12700 | A503_32.4 S4 M4SA4 | 296 | A503_32.4 P132 BN132S4 | 297 |
| 45 | 1051 | 2.7 | 31.7 | 30000 | A603_31.7 S4 M4SA4 | 304 | A603_31.7 P132 BN132S4 | 305 |
| 48 | 994 | 2.0 | 29.9 | 30000 | A553_29.9 S4 M4SA4 | 300 | A553_29.9 P132 BN132S4 | 301 |
| 52 | 925 | 3.0 | 27.9 | 30000 | A603_27.9 S4 M4SA4 | 304 | A603_27.9 P132 BN132S4 | 305 |
| 54 | 878 | 1.7 | 26.4 | 12600 | A503_26.4 S4 M4SA4 | 296 | A503_26.4 P132 BN132S4 | 297 |
| 56 | 854 | 3.3 | 25.7 | 30000 | A603_25.7 S4 M4SA4 | 304 | A603_25.7 P132 BN132S4 | 305 |
| 60 | 799 | 1.9 | 24.0 | 12500 | A503_24.0 S4 M4SA4 | 296 | A503_24.0 P132 BN132S4 | 297 |
| 61 | 790 | 2.5 | 23.8 | 29800 | A553_23.8 S4 M4SA4 | 300 | A553_23.8 P132 BN132S4 | 301 |
| 69 | 718 | 1.7 | 20.9 | 14400 | A502_20.9 S4 M4SA4 | 296 | A502_20.9 P132 BN132S4 | 297 |
| 70 | 706 | 2.8 | 20.6 | 30000 | A602_20.6 S4 M4SA4 | 304 | A602_20.6 P132 BN132S4 | 305 |
| 75 | 660 | 2.7 | 19.2 | 29300 | A552_19.2 S4 M4SA4 | 300 | A552_19.2 P132 BN132S4 | 301 |
| 81 | 609 | 1.0 | 17.8 | 9280 | A412_17.8 S4 M4SA4 | 292 | A412_17.8 P132 BN132S4 | 293 |
| 86 | 574 | 3.5 | 16.7 | 30000 | A602_16.7 S4 M4SA4 | 304 | A602_16.7 P132 BN132S4 | 305 |
| 87 | 568 | 2.1 | 16.6 | 13600 | A502_16.6 S4 M4SA4 | 296 | A502_16.6 P132 BN132S4 | 297 |
| 89 | 552 | 1.1 | 16.1 | 9160 | A412_16.1 S4 M4SA4 | 292 | A412_16.1 P132 BN132S4 | 293 |
| 92 | 538 | 3.3 | 15.7 | 27700 | A552_15.7 S4 M4SA4 | 300 | A552_15.7 P132 BN132S4 | 301 |
| 105 | 472 | 1.2 | 13.8 | 8940 | A412_13.8 S4 M4SA4 | 292 | A412_13.8 P132 BN132S4 | 293 |
| 110 | 450 | 2.4 | 13.1 | 12800 | A502_13.1 S4 M4SA4 | 296 | A502_13.1 P132 BN132S4 | 297 |
| 122 | 404 | 1.0 | 11.8 | 6450 | A352_11.8 S4 M4SA4 | 288 | A352_11.8 P132 BN132S4 | 289 |
| 123 | 403 | 1.4 | 11.7 | 8670 | A412_11.7 S4 M4SA4 | 292 | A412_11.7 P132 BN132S4 | 293 |
| 135 | 365 | 1.1 | 10.6 | 6360 | A352_10.6 S4 M4SA4 | 288 | A352_10.6 P132 BN132S4 | 289 |
| 142 | 348 | 1.5 | 10.1 | 8440 | A412_10.1 S4 M4SA4 | 292 | A412_10.1 P132 BN132S4 | 293 |
| 148 | 334 | 3.0 | 9.7 | 11800 | A502_9.7 S4 M4SA4 | 296 | A502_9.7 P132 BN132S4 | 297 |
| 155 | 319 | 1.3 | 9.3 | 6240 | A352_9.3 S4 M4SA4 | 288 | A352_9.3 P132 BN132S4 | 289 |
| 157 | 316 | 1.7 | 9.2 | 8250 | A412_9.2 S4 M4SA4 | 292 | A412_9.2 P132 BN132S4 | 293 |
| 170 | 290 | 1.3 | 8.5 | 6140 | A352_8.5 S4 M4SA4 | 288 | A352_8.5 P132 BN132S4 | 289 |
| 173 | 286 | 1.9 | 8.3 | 8080 | A412_8.3 S4 M4SA4 | 292 | A412_8.3 P132 BN132S4 | 293 |
| 202 | 244 | 2.3 | 7.1 | 7790 | A412_7.1 S4 M4SA4 | 292 | A412_7.1 P132 BN132S4 | 293 |
| 205 | 241 | 1.5 | 7.0 | 5930 | A352_7.0 S4 M4SA4 | 288 | A352_7.0 P132 BN132S4 | 289 |
| 225 | 220 | 1.6 | 6.4 | 5820 | A352_6.4 S4 M4SA4 | 288 | A352_6.4 P132 BN132S4 | 289 |
| 246 | 201 | 2.7 | 11.7 | 7430 | A412_11.7 S4 M4SA2 | 292 | A412_11.7 P132 BN132SA2 | 293 |
| 266 | 186 | 1.8 | 5.4 | 5610 | A352_5.4 S4 M4SA4 | 288 | A352_5.4 P132 BN132S4 | 289 |
| 275 | 180 | 3.1 | 5.2 | 7230 | A412_5.2 S4 M4SA4 | 292 | A412_5.2 P132 BN132S4 | 293 |
| 285 | 173 | 2.5 | 10.1 | 7170 | A412_10.1 S4 M4SA2 | 292 | A412_10.1 P132 BN132SA2 | 293 |
| 411 | 120 | 3.1 | 7.0 | 5060 | A352_7.0 S4 M4SA2 | 288 | A352_7.0 P132 BN132SA2 | 289 |

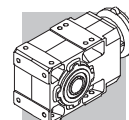
7.5 kW

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 4.0 | 15759 | 0.9 | 355.8 | 75000 | A904_355.8 S4 M4LA4 | 314 | A904_355.8 P132 BN132MA4 | 315 |
| 4.7 | 13504 | 1.0 | 304.9 | 75000 | A904_304.9 S4 M4LA4 | 314 | A904_304.9 P132 BN132MA4 | 315 |
| 5.1 | 12465 | 1.1 | 281.4 | 75000 | A904_281.4 S4 M4LA4 | 314 | A904_281.4 P132 BN132MA4 | 315 |
| 6.4 | 10029 | 1.4 | 226.4 | 75000 | A904_226.4 S4 M4LA4 | 314 | A904_226.4 P132 BN132MA4 | 315 |
| 6.9 | 9257 | 1.5 | 209.0 | 75000 | A904_209.0 S4 M4LA4 | 314 | A904_209.0 P132 BN132MA4 | 315 |

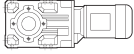






7.5 kW






| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 8.0 | 7971 | 1.8 | 180.0 | 75000 | A904_180.0 S4 M4LA4 | 314 | A904_180.0 P132 BN132MA4 | 315 |
| 8.4 | 7587 | 1.1 | 171.3 | 65000 | A804_171.3 S4 M4LA4 | 311 | A804_171.3 P132 BN132MA4 | 312 |
| 8.7 | 7358 | 1.9 | 166.1 | 75000 | A904_166.1 S4 M4LA4 | 314 | A904_166.1 P132 BN132MA4 | 315 |
| 9.2 | 7101 | 1.1 | 156.8 | 65000 | A803_156.8 S4 M4LA4 | 311 | A803_156.8 P132 BN132MA4 | 312 |
| 9.5 | 6839 | 2.0 | 151.0 | 75000 | A903_151.0 S4 M4LA4 | 314 | A903_151.0 P132 BN132MA4 | 315 |
| 9.9 | 6555 | 1.2 | 144.7 | 65000 | A803_144.7 S4 M4LA4 | 311 | A803_144.7 P132 BN132MA4 | 312 |
| 10.3 | 6313 | 2.0 | 139.4 | 75000 | A903_139.4 S4 M4LA4 | 314 | A903_139.4 P132 BN132MA4 | 315 |
| 11.4 | 5735 | 2.3 | 126.6 | 75000 | A903_126.6 S4 M4LA4 | 314 | A903_126.6 P132 BN132MA4 | 315 |
| 11.5 | 5689 | 1.4 | 125.6 | 65000 | A803_125.6 S4 M4LA4 | 311 | A803_125.6 P132 BN132MA4 | 312 |
| 11.9 | 5462 | 0.9 | 120.6 | 50000 | A703_120.6 S4 M4LA4 | 308 | A703_120.6 P132 BN132MA4 | 309 |
| 12.3 | 5294 | 2.6 | 116.9 | 75000 | A903_116.9 S4 M4LA4 | 314 | A903_116.9 P132 BN132MA4 | 315 |
| 12.4 | 5251 | 1.5 | 116.0 | 65000 | A803_116.0 S4 M4LA4 | 311 | A803_116.0 P132 BN132MA4 | 312 |
| 13.5 | 4838 | 2.9 | 106.8 | 75000 | A903_106.8 S4 M4LA4 | 314 | A903_106.8 P132 BN132MA4 | 315 |
| 13.8 | 4721 | 1.1 | 104.2 | 50000 | A703_104.2 S4 M4LA4 | 308 | A703_104.2 P132 BN132MA4 | 309 |
| 13.8 | 4711 | 1.7 | 104.0 | 65000 | A803_104.0 S4 M4LA4 | 311 | A803_104.0 P132 BN132MA4 | 312 |
| 14.6 | 4465 | 3.1 | 98.6 | 75000 | A903_98.6 S4 M4LA4 | 314 | A903_98.6 P132 BN132MA4 | 315 |
| 15.0 | 4357 | 1.1 | 96.2 | 50000 | A703_96.2 S4 M4LA4 | 308 | A703_96.2 P132 BN132MA4 | 309 |
| 15.0 | 4349 | 1.8 | 96.0 | 65000 | A803_96.0 S4 M4LA4 | 311 | A803_96.0 P132 BN132MA4 | 312 |
| 16.1 | 4039 | 2.0 | 89.2 | 65000 | A803_89.2 S4 M4LA4 | 311 | A803_89.2 P132 BN132MA4 | 312 |
| 16.8 | 3892 | 1.3 | 85.9 | 50000 | A703_85.9 S4 M4LA4 | 308 | A703_85.9 P132 BN132MA4 | 309 |
| 17.5 | 3728 | 2.1 | 82.3 | 65000 | A803_82.3 S4 M4LA4 | 311 | A803_82.3 P132 BN132MA4 | 312 |
| 18.2 | 3593 | 1.4 | 79.3 | 50000 | A703_79.3 S4 M4LA4 | 308 | A703_79.3 P132 BN132MA4 | 309 |
| 19.9 | 3284 | 1.5 | 72.5 | 50000 | A703_72.5 S4 M4LA4 | 308 | A703_72.5 P132 BN132MA4 | 309 |
| 19.9 | 3277 | 2.4 | 72.4 | 65000 | A803_72.4 S4 M4LA4 | 311 | A803_72.4 P132 BN132MA4 | 312 |
| 20.5 | 3188 | 0.9 | 70.4 | 30000 | A603_70.4 S4 M4LA4 | 304 | A603_70.4 P132 BN132MA4 | 305 |
| 21.5 | 3032 | 1.6 | 66.9 | 50000 | A703_66.9 S4 M4LA4 | 308 | A703_66.9 P132 BN132MA4 | 309 |
| 21.6 | 3025 | 2.6 | 66.8 | 65000 | A803_66.8 S4 M4LA4 | 311 | A803_66.8 P132 BN132MA4 | 312 |
| 22.2 | 2943 | 1.0 | 65.0 | 30000 | A603_65.0 S4 M4LA4 | 304 | A603_65.0 P132 BN132MA4 | 305 |
| 24.1 | 2707 | 3.0 | 59.8 | 63800 | A803_59.8 S4 M4LA4 | 311 | A803_59.8 P132 BN132MA4 | 312 |
| 25.0 | 2612 | 1.9 | 57.7 | 50000 | A703_57.7 S4 M4LA4 | 308 | A703_57.7 P132 BN132MA4 | 309 |
| 25.9 | 2518 | 1.1 | 55.6 | 30000 | A603_55.6 S4 M4LA4 | 304 | A603_55.6 P132 BN132MA4 | 305 |
| 26.1 | 2499 | 3.2 | 55.2 | 62600 | A803_55.2 S4 M4LA4 | 311 | A803_55.2 P132 BN132MA4 | 312 |
| 27.1 | 2411 | 2.1 | 53.2 | 50000 | A703_53.2 S4 M4LA4 | 308 | A703_53.2 P132 BN132MA4 | 309 |
| 28.1 | 2324 | 1.2 | 51.3 | 30000 | A603_51.3 S4 M4LA4 | 304 | A603_51.3 P132 BN132MA4 | 305 |
| 29.4 | 2219 | 2.3 | 49.0 | 50000 | A703_49.0 S4 M4LA4 | 308 | A703_49.0 P132 BN132MA4 | 309 |
| 32 | 2048 | 2.3 | 45.2 | 50000 | A703_45.2 S4 M4LA4 | 308 | A703_45.2 P132 BN132MA4 | 309 |
| 32 | 2046 | 1.4 | 45.2 | 30000 | A603_45.2 S4 M4LA4 | 304 | A603_45.2 P132 BN132MA4 | 305 |
| 35 | 1889 | 1.5 | 41.7 | 30000 | A603_41.7 S4 M4LA4 | 304 | A603_41.7 P132 BN132MA4 | 305 |
| 36 | 1825 | 1.1 | 40.3 | 30000 | A553_40.3 S4 M4LA4 | 300 | A553_40.3 P132 BN132MA4 | 301 |
| 38 | 1738 | 2.8 | 38.4 | 50000 | A703_38.4 S4 M4LA4 | 308 | A703_38.4 P132 BN132MA4 | 309 |
| 40 | 1612 | 0.9 | 35.6 | 10100 | A503_35.6 S4 M4LA4 | 296 | A503_35.6 P132 BN132MA4 | 297 |
| 41 | 1605 | 2.8 | 35.4 | 50000 | A703_35.4 S4 M4LA4 | 308 | A703_35.4 P132 BN132MA4 | 309 |
| 42 | 1553 | 1.8 | 34.3 | 30000 | A603_34.3 S4 M4LA4 | 304 | A603_34.3 P132 BN132MA4 | 305 |
| 44 | 1466 | 1.0 | 32.4 | 10300 | A503_32.4 S4 M4LA4 | 296 | A503_32.4 P132 BN132MA4 | 297 |
| 45 | 1434 | 2.0 | 31.7 | 30000 | A603_31.7 S4 M4LA4 | 304 | A603_31.7 P132 BN132MA4 | 305 |
| 48 | 1355 | 1.5 | 29.9 | 30000 | A553_29.9 S4 M4LA4 | 300 | A553_29.9 P132 BN132MA4 | 301 |
| 52 | 1261 | 2.2 | 27.9 | 30000 | A603_27.9 S4 M4LA4 | 304 | A603_27.9 P132 BN132MA4 | 305 |
| 54 | 1197 | 1.3 | 26.4 | 10700 | A503_26.4 S4 M4LA4 | 296 | A503_26.4 P132 BN132MA4 | 297 |
| 56 | 1164 | 2.4 | 25.7 | 30000 | A603_25.7 S4 M4LA4 | 304 | A603_25.7 P132 BN132MA4 | 305 |
| 60 | 1089 | 1.4 | 24.0 | 10800 | A503_24.0 S4 M4LA4 | 296 | A503_24.0 P132 BN132MA4 | 297 |
| 61 | 1077 | 1.8 | 23.8 | 28800 | A553_23.8 S4 M4LA4 | 300 | A553_23.8 P132 BN132MA4 | 301 |

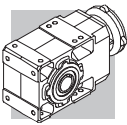


7.5 kW

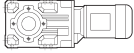




| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 69 | 979 | 1.2 | 20.9 | 13700 | A502_20.9 S4 M4LA4 | 296 | A502_20.9 P132 BN132MA4 | 297 |
| 70 | 963 | 2.1 | 20.6 | 30000 | A602_20.6 S4 M4LA4 | 304 | A602_20.6 P132 BN132MA4 | 305 |
| 75 | 900 | 2.0 | 19.2 | 28800 | A552_19.2 S4 M4LA4 | 300 | A552_19.2 P132 BN132MA4 | 301 |
| 86 | 783 | 2.6 | 16.7 | 30000 | A602_16.7 S4 M4LA4 | 304 | A602_16.7 P132 BN132MA4 | 305 |
| 87 | 775 | 1.5 | 16.6 | 13000 | A502_16.6 S4 M4LA4 | 296 | A502_16.6 P132 BN132MA4 | 297 |
| 92 | 734 | 2.5 | 15.7 | 27300 | A552_15.7 S4 M4LA4 | 300 | A552_15.7 P132 BN132MA4 | 301 |
| 105 | 644 | 0.9 | 13.8 | 8130 | A412_13.8 S4 M4LA4 | 292 | A412_13.8 P132 BN132MA4 | 293 |
| 110 | 613 | 1.8 | 13.1 | 12300 | A502_13.1 S4 M4LA4 | 296 | A502_13.1 P132 BN132MA4 | 297 |
| 110 | 612 | 2.9 | 13.1 | 26100 | A552_13.1 S4 M4LA4 | 300 | A552_13.1 P132 BN132MA4 | 301 |
| 113 | 594 | 3.4 | 12.7 | 30000 | A602_12.7 S4 M4LA4 | 304 | A602_12.7 P132 BN132MA4 | 305 |
| 123 | 549 | 1.0 | 11.7 | 7970 | A412_11.7 S4 M4LA4 | 292 | A412_11.7 P132 BN132MA4 | 293 |
| 142 | 474 | 1.1 | 10.1 | 7850 | A412_10.1 S4 M4LA4 | 292 | A412_10.1 P132 BN132MA4 | 293 |
| 148 | 455 | 2.2 | 9.7 | 11500 | A502_9.7 S4 M4LA4 | 296 | A502_9.7 P132 BN132MA4 | 297 |
| 155 | 436 | 0.9 | 9.3 | 5650 | A352_9.3 S4 M4LA4 | 288 | A352_9.3 P132 BN132MA4 | 289 |
| 157 | 430 | 1.3 | 9.2 | 7710 | A412_9.2 S4 M4LA4 | 292 | A412_9.2 P132 BN132MA4 | 293 |
| 170 | 396 | 1.0 | 8.5 | 5600 | A352_8.5 S4 M4LA4 | 288 | A352_8.5 P132 BN132MA4 | 289 |
| 173 | 390 | 1.4 | 8.3 | 7590 | A412_8.3 S4 M4LA4 | 292 | A412_8.3 P132 BN132MA4 | 293 |
| 186 | 362 | 2.6 | 7.7 | 10800 | A502_7.7 S4 M4LA4 | 296 | A502_7.7 P132 BN132MA4 | 297 |
| 202 | 333 | 1.7 | 7.1 | 7370 | A412_7.1 S4 M4LA4 | 292 | A412_7.1 P132 BN132MA4 | 293 |
| 205 | 329 | 1.1 | 7.0 | 5490 | A352_7.0 S4 M4LA4 | 288 | A352_7.0 P132 BN132MA4 | 289 |
| 225 | 300 | 1.2 | 6.4 | 5420 | A352_6.4 S4 M4LA4 | 288 | A352_6.4 P132 BN132MA4 | 289 |
| 266 | 253 | 1.3 | 5.4 | 5270 | A352_5.4 S4 M4LA4 | 288 | A352_5.4 P132 BN132MA4 | 289 |
| 275 | 245 | 2.2 | 5.2 | 6920 | A412_5.2 S4 M4LA4 | 292 | A412_5.2 P132 BN132MA4 | 293 |
| 315 | 214 | 2.5 | 9.2 | 6710 | A412_9.2 S4 M4SB2 | 292 | A412_9.2 P132 BN132SB2 | 293 |
| 348 | 194 | 2.6 | 8.3 | 6550 | A412_8.3 S4 M4SB2 | 292 | A412_8.3 P132 BN132SB2 | 293 |
| 413 | 163 | 2.3 | 7.0 | 4830 | A352_7.0 S4 M4SB2 | 288 | A352_7.0 P132 BN132SB2 | 289 |
| 536 | 126 | 2.7 | 5.4 | 4550 | A352_5.4 S4 M4SB2 | 288 | A352_5.4 P132 BN132SB2 | 289 |

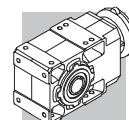
9.2 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 5.1 | 15291 | 0.9 | 281.4 | 75000 | A904_281.4 S4 M4LB4 | 314 | A904_281.4 P132 BN132MB4 | 315 |
| 6.4 | 12302 | 1.1 | 226.4 | 75000 | A904_226.4 S4 M4LB4 | 314 | A904_226.4 P132 BN132MB4 | 315 |
| 6.9 | 11356 | 1.2 | 209.0 | 75000 | A904_209.0 S4 M4LB4 | 314 | A904_209.0 P132 BN132MB4 | 315 |
| 8.0 | 9778 | 1.4 | 180.0 | 75000 | A904_180.0 S4 M4LB4 | 314 | A904_180.0 P132 BN132MB4 | 315 |
| 8.4 | 9307 | 0.9 | 171.3 | 65000 | A804_171.3 S4 M4LB4 | 311 | A804_171.3 P132 BN132MB4 | 312 |
| 8.7 | 9026 | 1.6 | 166.1 | 75000 | A904_166.1 S4 M4LB4 | 314 | A904_166.1 P132 BN132MB4 | 315 |
| 9.2 | 8711 | 0.9 | 156.8 | 65000 | A803_156.8 S4 M4LB4 | 311 | A803_156.8 P132 BN132MB4 | 312 |
| 9.5 | 8389 | 1.6 | 151.0 | 75000 | A903_151.0 S4 M4LB4 | 314 | A903_151.0 P132 BN132MB4 | 315 |
| 9.9 | 8040 | 1.0 | 144.7 | 65000 | A803_144.7 S4 M4LB4 | 311 | A803_144.7 P132 BN132MB4 | 312 |
| 10.3 | 7744 | 1.6 | 139.4 | 75000 | A903_139.4 S4 M4LB4 | 314 | A903_139.4 P132 BN132MB4 | 315 |
| 11.4 | 7035 | 1.9 | 126.6 | 75000 | A903_126.6 S4 M4LB4 | 314 | A903_126.6 P132 BN132MB4 | 315 |
| 11.5 | 6978 | 1.1 | 125.6 | 65000 | A803_125.6 S4 M4LB4 | 311 | A803_125.6 P132 BN132MB4 | 312 |
| 12.3 | 6494 | 2.2 | 116.9 | 75000 | A903_116.9 S4 M4LB4 | 314 | A903_116.9 P132 BN132MB4 | 315 |
| 12.4 | 6442 | 1.2 | 116.0 | 65000 | A803_116.0 S4 M4LB4 | 311 | A803_116.0 P132 BN132MB4 | 312 |
| 13.5 | 5934 | 2.4 | 106.8 | 75000 | A903_106.8 S4 M4LB4 | 314 | A903_106.8 P132 BN132MB4 | 315 |
| 13.8 | 5779 | 1.4 | 104.0 | 65000 | A803_104.0 S4 M4LB4 | 311 | A803_104.0 P132 BN132MB4 | 312 |
| 14.6 | 5478 | 2.6 | 98.6 | 75000 | A903_98.6 S4 M4LB4 | 314 | A903_98.6 P132 BN132MB4 | 315 |

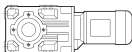






9.2 kW






| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 15.0 | 5345 | 0.9 | 96.2 | 50000 | A703_96.2 S4 M4LB4 | 308 | A703_96.2 P132 BN132MB4 | 309 |
| 15.0 | 5335 | 1.5 | 96.0 | 65000 | A803_96.0 S4 M4LB4 | 311 | A803_96.0 P132 BN132MB4 | 312 |
| 16.1 | 4954 | 1.6 | 89.2 | 65000 | A803_89.2 S4 M4LB4 | 311 | A803_89.2 P132 BN132MB4 | 312 |
| 16.5 | 4837 | 2.9 | 87.1 | 75000 | A903_87.1 S4 M4LB4 | 314 | A903_87.1 P132 BN132MB4 | 315 |
| 16.8 | 4774 | 1.0 | 85.9 | 50000 | A703_85.9 S4 M4LB4 | 308 | A703_85.9 P132 BN132MB4 | 309 |
| 17.5 | 4573 | 1.7 | 82.3 | 65000 | A803_82.3 S4 M4LB4 | 311 | A803_82.3 P132 BN132MB4 | 312 |
| 17.9 | 4465 | 3.1 | 80.4 | 75000 | A903_80.4 S4 M4LB4 | 314 | A903_80.4 P132 BN132MB4 | 315 |
| 18.2 | 4407 | 1.1 | 79.3 | 50000 | A703_79.3 S4 M4LB4 | 308 | A703_79.3 P132 BN132MB4 | 309 |
| 19.3 | 4137 | 3.4 | 74.5 | 75000 | A903_74.5 S4 M4LB4 | 314 | A903_74.5 P132 BN132MB4 | 315 |
| 19.9 | 4029 | 1.2 | 72.5 | 50000 | A703_72.5 S4 M4LB4 | 308 | A703_72.5 P132 BN132MB4 | 309 |
| 19.9 | 4020 | 2.0 | 72.4 | 65000 | A803_72.4 S4 M4LB4 | 311 | A803_72.4 P132 BN132MB4 | 312 |
| 21.5 | 3719 | 1.3 | 66.9 | 50000 | A703_66.9 S4 M4LB4 | 308 | A703_66.9 P132 BN132MB4 | 309 |
| 21.6 | 3711 | 2.2 | 66.8 | 63800 | A803_66.8 S4 M4LB4 | 311 | A803_66.8 P132 BN132MB4 | 312 |
| 24.1 | 3321 | 2.4 | 59.8 | 62400 | A803_59.8 S4 M4LB4 | 311 | A803_59.8 P132 BN132MB4 | 312 |
| 25.0 | 3204 | 1.6 | 57.7 | 50000 | A703_57.7 S4 M4LB4 | 308 | A703_57.7 P132 BN132MB4 | 309 |
| 25.9 | 3089 | 0.9 | 55.6 | 30000 | A603_55.6 S4 M4LB4 | 304 | A603_55.6 P132 BN132MB4 | 305 |
| 26.1 | 3065 | 2.6 | 55.2 | 61300 | A803_55.2 S4 M4LB4 | 311 | A803_55.2 P132 BN132MB4 | 312 |
| 27.1 | 2957 | 1.7 | 53.2 | 50000 | A703_53.2 S4 M4LB4 | 308 | A703_53.2 P132 BN132MB4 | 309 |
| 28.1 | 2851 | 1.0 | 51.3 | 30000 | A603_51.3 S4 M4LB4 | 304 | A603_51.3 P132 BN132MB4 | 305 |
| 29.4 | 2722 | 1.8 | 49.0 | 50000 | A703_49.0 S4 M4LB4 | 308 | A703_49.0 P132 BN132MB4 | 309 |
| 30 | 2677 | 3.0 | 48.2 | 59500 | A803_48.2 S4 M4LB4 | 311 | A803_48.2 P132 BN132MB4 | 312 |
| 32 | 2513 | 1.9 | 45.2 | 50000 | A703_45.2 S4 M4LB4 | 308 | A703_45.2 P132 BN132MB4 | 309 |
| 32 | 2510 | 1.1 | 45.2 | 30000 | A603_45.2 S4 M4LB4 | 304 | A603_45.2 P132 BN132MB4 | 305 |
| 32 | 2471 | 3.0 | 44.5 | 58400 | A803_44.5 S4 M4LB4 | 311 | A803_44.5 P132 BN132MB4 | 312 |
| 35 | 2317 | 1.2 | 41.7 | 30000 | A603_41.7 S4 M4LB4 | 304 | A603_41.7 P132 BN132MB4 | 305 |
| 38 | 2132 | 2.3 | 38.4 | 50000 | A703_38.4 S4 M4LB4 | 308 | A703_38.4 P132 BN132MB4 | 309 |
| 41 | 1968 | 2.3 | 35.4 | 50000 | A703_35.4 S4 M4LB4 | 308 | A703_35.4 P132 BN132MB4 | 309 |
| 42 | 1905 | 1.5 | 34.3 | 30000 | A603_34.3 S4 M4LB4 | 304 | A603_34.3 P132 BN132MB4 | 305 |
| 45 | 1759 | 1.6 | 31.7 | 30000 | A603_31.7 S4 M4LB4 | 304 | A603_31.7 P132 BN132MB4 | 305 |
| 48 | 1663 | 1.2 | 29.9 | 29100 | A553_29.9 S4 M4LB4 | 300 | A553_29.9 P132 BN132MB4 | 301 |
| 52 | 1547 | 1.8 | 27.9 | 30000 | A603_27.9 S4 M4LB4 | 304 | A603_27.9 P132 BN132MB4 | 305 |
| 54 | 1469 | 1.0 | 26.4 | 9130 | A503_26.4 S4 M4LB4 | 296 | A503_26.4 P132 BN132MB4 | 297 |
| 56 | 1428 | 2.0 | 25.7 | 30000 | A603_25.7 S4 M4LB4 | 304 | A603_25.7 P132 BN132MB4 | 305 |
| 60 | 1336 | 1.1 | 24.0 | 9370 | A503_24.0 S4 M4LB4 | 296 | A503_24.0 P132 BN132MB4 | 297 |
| 61 | 1322 | 1.5 | 23.8 | 27900 | A553_23.8 S4 M4LB4 | 300 | A553_23.8 P132 BN132MB4 | 301 |
| 68 | 1183 | 3.4 | 21.3 | 46000 | A703_21.3 S4 M4LB4 | 308 | A703_21.3 P132 BN132MB4 | 309 |
| 69 | 1200 | 1.0 | 20.9 | 13000 | A502_20.9 S4 M4LB4 | 296 | A502_20.9 P132 BN132MB4 | 297 |
| 70 | 1182 | 1.7 | 20.6 | 30000 | A602_20.6 S4 M4LB4 | 304 | A602_20.6 P132 BN132MB4 | 305 |
| 73 | 1092 | 3.4 | 19.7 | 45100 | A703_19.7 S4 M4LB4 | 308 | A703_19.7 P132 BN132MB4 | 309 |
| 75 | 1104 | 1.6 | 19.2 | 28400 | A552_19.2 S4 M4LB4 | 300 | A552_19.2 P132 BN132MB4 | 301 |
| 86 | 960 | 2.1 | 16.7 | 30000 | A602_16.7 S4 M4LB4 | 304 | A602_16.7 P132 BN132MB4 | 305 |
| 87 | 951 | 1.3 | 16.6 | 12500 | A502_16.6 S4 M4LB4 | 296 | A502_16.6 P132 BN132MB4 | 297 |
| 92 | 900 | 2.0 | 15.7 | 27000 | A552_15.7 S4 M4LB4 | 300 | A552_15.7 P132 BN132MB4 | 301 |
| 110 | 752 | 1.5 | 13.1 | 11900 | A502_13.1 S4 M4LB4 | 296 | A502_13.1 P132 BN132MB4 | 297 |
| 110 | 750 | 2.4 | 13.1 | 25800 | A552_13.1 S4 M4LB4 | 300 | A552_13.1 P132 BN132MB4 | 301 |
| 113 | 729 | 2.7 | 12.7 | 30000 | A602_12.7 S4 M4LB4 | 304 | A602_12.7 P132 BN132MB4 | 305 |
| 123 | 650 | 2.5 | 23.8 | 24100 | A553_23.8 S4 M4LA2 | 300 | A553_23.8 P132 BN132M2 | 301 |
| 139 | 594 | 3.0 | 10.4 | 24200 | A552_10.4 S4 M4LB4 | 300 | A552_10.4 P132 BN132MB4 | 301 |
| 140 | 592 | 3.4 | 10.3 | 30000 | A602_10.3 S4 M4LB4 | 304 | A602_10.3 P132 BN132MB4 | 305 |
| 142 | 581 | 0.9 | 10.1 | 7340 | A412_10.1 S4 M4LB4 | 292 | A412_10.1 P132 BN132MB4 | 293 |
| 148 | 559 | 1.8 | 9.7 | 11200 | A502_9.7 S4 M4LB4 | 296 | A502_9.7 P132 BN132MB4 | 297 |

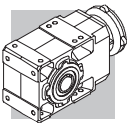


9.2 kW

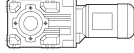



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|-----|----------------------|---|--|---|---|
| 157 | 528 | 1.0 | 9.2 | 7250 | A412_9.2 S4 M4LB4 | 292 | A412_9.2 P132 BN132MB4 | 293 |
| 173 | 478 | 1.2 | 8.3 | 7170 | A412_8.3 S4 M4LB4 | 292 | A412_8.3 P132 BN132MB4 | 293 |
| 186 | 444 | 2.1 | 7.7 | 10600 | A502_7.7 S4 M4LB4 | 296 | A502_7.7 P132 BN132MB4 | 297 |
| 202 | 409 | 1.3 | 7.1 | 7020 | A412_7.1 S4 M4LB4 | 292 | A412_7.1 P132 BN132MB4 | 293 |
| 205 | 403 | 0.9 | 7.0 | 5110 | A352_7.0 S4 M4LB4 | 288 | A352_7.0 P132 BN132MB4 | 289 |
| 225 | 368 | 1.0 | 6.4 | 5070 | A352_6.4 S4 M4LB4 | 288 | A352_6.4 P132 BN132MB4 | 289 |
| 266 | 311 | 1.1 | 5.4 | 4980 | A352_5.4 S4 M4LB4 | 288 | A352_5.4 P132 BN132MB4 | 289 |
| 275 | 301 | 1.8 | 5.2 | 6660 | A412_5.2 S4 M4LB4 | 292 | A412_5.2 P132 BN132MB4 | 293 |
| 319 | 259 | 2.0 | 9.2 | 6480 | A412_9.2 S4 M4LA2 | 292 | A412_9.2 P132 BN132M2 | 293 |
| 379 | 218 | 3.4 | 7.7 | 8780 | A502_7.7 S4 M4LA2 | 296 | A502_7.7 P132 BN132M2 | 297 |
| 541 | 153 | 2.2 | 5.4 | 4410 | A352_5.4 S4 M4LA2 | 288 | A352_5.4 P132 BN132M2 | 289 |
| 559 | 148 | 3.0 | 5.2 | 5690 | A412_5.2 S4 M4LA2 | 292 | A412_5.2 P132 BN132M2 | 293 |

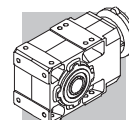
11 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 6.4 | 14709 | 1.0 | 226.4 | 75000 | A904_226.4 S4 M4LC4 | 314 | A904_226.4 P160 BN160MR4 | 315 |
| 6.9 | 13577 | 1.0 | 209.0 | 75000 | A904_209.0 S4 M4LC4 | 314 | A904_209.0 P160 BN160MR4 | 315 |
| 8.0 | 11691 | 1.2 | 180.0 | 75000 | A904_180.0 S4 M4LC4 | 314 | A904_180.0 P160 BN160MR4 | 315 |
| 8.7 | 10792 | 1.3 | 166.1 | 75000 | A904_166.1 S4 M4LC4 | 314 | A904_166.1 P160 BN160MR4 | 315 |
| 9.5 | 10030 | 1.4 | 151.0 | 75000 | A903_151.0 S4 M4LC4 | 314 | A903_151.0 P160 BN160MR4 | 315 |
| 10.3 | 9259 | 1.4 | 139.4 | 75000 | A903_139.4 S4 M4LC4 | 314 | A903_139.4 P160 BN160MR4 | 315 |
| 11.4 | 8412 | 1.6 | 126.6 | 75000 | A903_126.6 S4 M4LC4 | 314 | A903_126.6 P160 BN160MR4 | 315 |
| 11.5 | 8344 | 1.0 | 125.6 | 65000 | A803_125.6 S4 M4LC4 | 311 | A803_125.6 P160 BN160MR4 | 312 |
| 12.3 | 7765 | 1.8 | 116.9 | 75000 | A903_116.9 S4 M4LC4 | 314 | A903_116.9 P160 BN160MR4 | 315 |
| 12.4 | 7702 | 1.0 | 116.0 | 65000 | A803_116.0 S4 M4LC4 | 311 | A803_116.0 P160 BN160MR4 | 312 |
| 13.5 | 7095 | 2.0 | 106.8 | 75000 | A903_106.8 S4 M4LC4 | 314 | A903_106.8 P160 BN160MR4 | 315 |
| 13.8 | 6910 | 1.2 | 104.0 | 65000 | A803_104.0 S4 M4LC4 | 311 | A803_104.0 P160 BN160MR4 | 312 |
| 14.6 | 6549 | 2.1 | 98.6 | 75000 | A903_98.6 S4 M4LC4 | 314 | A903_98.6 P160 BN160MR4 | 315 |
| 15.0 | 6378 | 1.3 | 96.0 | 65000 | A803_96.0 S4 M4LC4 | 311 | A803_96.0 P160 BN160MR4 | 312 |
| 16.1 | 5923 | 1.4 | 89.2 | 65000 | A803_89.2 S4 M4LC4 | 311 | A803_89.2 P160 BN160MR4 | 312 |
| 16.5 | 5783 | 2.4 | 87.1 | 75000 | A903_87.1 S4 M4LC4 | 314 | A903_87.1 P160 BN160MR4 | 315 |
| 17.5 | 5468 | 1.5 | 82.3 | 64500 | A803_82.3 S4 M4LC4 | 311 | A803_82.3 P160 BN160MR4 | 312 |
| 17.9 | 5338 | 2.6 | 80.4 | 75000 | A903_80.4 S4 M4LC4 | 314 | A903_80.4 P160 BN160MR4 | 315 |
| 18.2 | 5269 | 0.9 | 79.3 | 50000 | A703_79.3 S4 M4LC4 | 308 | A703_79.3 P160 BN160MR4 | 309 |
| 19.3 | 4947 | 2.8 | 74.5 | 75000 | A903_74.5 S4 M4LC4 | 314 | A903_74.5 P160 BN160MR4 | 315 |
| 19.9 | 4817 | 1.0 | 72.5 | 50000 | A703_72.5 S4 M4LC4 | 308 | A703_72.5 P160 BN160MR4 | 309 |
| 19.9 | 4807 | 1.7 | 72.4 | 63200 | A803_72.4 S4 M4LC4 | 311 | A803_72.4 P160 BN160MR4 | 312 |
| 20.9 | 4566 | 3.1 | 68.8 | 75000 | A903_68.8 S4 M4LC4 | 314 | A903_68.8 P160 BN160MR4 | 315 |
| 21.5 | 4446 | 1.1 | 66.9 | 50000 | A703_66.9 S4 M4LC4 | 308 | A703_66.9 P160 BN160MR4 | 309 |
| 21.6 | 4437 | 1.8 | 66.8 | 62200 | A803_66.8 S4 M4LC4 | 311 | A803_66.8 P160 BN160MR4 | 312 |
| 24.1 | 3971 | 2.0 | 59.8 | 60900 | A803_59.8 S4 M4LC4 | 311 | A803_59.8 P160 BN160MR4 | 312 |
| 24.2 | 3960 | 3.5 | 59.6 | 75000 | A903_59.6 S4 M4LC4 | 314 | A903_59.6 P160 BN160MR4 | 315 |
| 25.0 | 3830 | 1.3 | 57.7 | 50000 | A703_57.7 S4 M4LC4 | 308 | A703_57.7 P160 BN160MR4 | 309 |
| 26.1 | 3665 | 2.2 | 55.2 | 59900 | A803_55.2 S4 M4LC4 | 311 | A803_55.2 P160 BN160MR4 | 312 |
| 27.1 | 3536 | 1.4 | 53.2 | 50000 | A703_53.2 S4 M4LC4 | 308 | A703_53.2 P160 BN160MR4 | 309 |
| 29.4 | 3255 | 1.5 | 49.0 | 50000 | A703_49.0 S4 M4LC4 | 308 | A703_49.0 P160 BN160MR4 | 309 |
| 30 | 3200 | 2.5 | 48.2 | 58300 | A803_48.2 S4 M4LC4 | 311 | A803_48.2 P160 BN160MR4 | 312 |

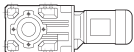






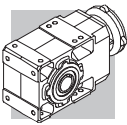
11 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 32 | 3004 | 1.6 | 45.2 | 50000 | A703_45.2 S4 M4LC4 | 308 | A703_45.2 P160 BN160MR4 | 309 |
| 32 | 3001 | 0.9 | 45.2 | 30000 | A603_45.2 S4 M4LC4 | 304 | A603_45.2 P160 BN160MR4 | 305 |
| 32 | 2954 | 2.5 | 44.5 | 57300 | A803_44.5 S4 M4LC4 | 311 | A803_44.5 P160 BN160MR4 | 312 |
| 35 | 2771 | 1.0 | 41.7 | 30000 | A603_41.7 S4 M4LC4 | 304 | A603_41.7 P160 BN160MR4 | 305 |
| 37 | 2557 | 3.0 | 38.5 | 55500 | | | A803_38.5 P160 BN160MR4 | 312 |
| 38 | 2549 | 1.9 | 38.4 | 50000 | A703_38.4 S4 M4LC4 | 308 | A703_38.4 P160 BN160MR4 | 309 |
| 41 | 2360 | 3.0 | 35.5 | 54500 | | | A803_35.5 P160 BN160MR4 | 312 |
| 41 | 2353 | 1.9 | 35.4 | 50000 | A703_35.4 S4 M4LC4 | 308 | A703_35.4 P160 BN160MR4 | 309 |
| 42 | 2278 | 1.2 | 34.3 | 30000 | A603_34.3 S4 M4LC4 | 304 | A603_34.3 P160 BN160MR4 | 305 |
| 45 | 2103 | 1.3 | 31.7 | 30000 | A603_31.7 S4 M4LC4 | 304 | A603_31.7 P160 BN160MR4 | 305 |
| 47 | 2031 | 3.2 | 30.6 | 52600 | | | A803_30.6 P160 BN160MR4 | 312 |
| 48 | 1999 | 2.3 | 30.1 | 49400 | | | A703_30.1 P160 BN160MR4 | 309 |
| 51 | 1875 | 3.5 | 28.2 | 51600 | | | A803_28.2 P160 BN160MR4 | 312 |
| 52 | 1850 | 1.5 | 27.9 | 30000 | A603_27.9 S4 M4LC4 | 304 | A603_27.9 P160 BN160MR4 | 305 |
| 52 | 1845 | 2.3 | 27.8 | 48500 | | | A703_27.8 P160 BN160MR4 | 309 |
| 56 | 1708 | 1.6 | 25.7 | 30000 | A603_25.7 S4 M4LC4 | 304 | A603_25.7 P160 BN160MR4 | 305 |
| 60 | 1597 | 0.9 | 24.0 | 7800 | A503_24.0 S4 M4LC4 | 296 | A503_24.0 P160 BN160MR4 | 297 |
| 61 | 1562 | 2.8 | 23.5 | 46600 | | | A703_23.5 P160 BN160MR4 | 309 |
| 68 | 1415 | 2.8 | 21.3 | 45500 | A703_21.3 S4 M4LC4 | 308 | A703_21.3 P160 BN160MR4 | 309 |
| 70 | 1413 | 1.4 | 20.6 | 30000 | A602_20.6 S4 M4LC4 | 304 | A602_20.6 P160 BN160MR4 | 305 |
| 73 | 1306 | 2.8 | 19.7 | 44500 | A703_19.7 S4 M4LC4 | 308 | A703_19.7 P160 BN160MR4 | 309 |
| 75 | 1319 | 1.4 | 19.2 | 27900 | A552_19.2 S4 M4LC4 | 300 | A552_19.2 P160 BN160MR4 | 301 |
| 86 | 1148 | 1.7 | 16.7 | 30000 | A602_16.7 S4 M4LC4 | 304 | A602_16.7 P160 BN160MR4 | 305 |
| 87 | 1137 | 1.1 | 16.6 | 12000 | A502_16.6 S4 M4LC4 | 296 | A502_16.6 P160 BN160MR4 | 297 |
| 92 | 1076 | 1.7 | 15.7 | 26600 | A552_15.7 S4 M4LC4 | 300 | A552_15.7 P160 BN160MR4 | 301 |
| 110 | 899 | 1.2 | 13.1 | 11500 | A502_13.1 S4 M4LC4 | 296 | A502_13.1 P160 BN160MR4 | 297 |
| 110 | 897 | 2.0 | 13.1 | 25400 | A552_13.1 S4 M4LC4 | 300 | A552_13.1 P160 BN160MR4 | 301 |
| 113 | 872 | 2.3 | 12.7 | 30000 | A602_12.7 S4 M4LC4 | 304 | A602_12.7 P160 BN160MR4 | 305 |
| 123 | 779 | 2.1 | 23.8 | 23600 | A553_23.8 S4 M4LC2 | 300 | A553_23.8 P160 BN160MR2 | 301 |
| 139 | 710 | 2.5 | 10.4 | 24000 | A552_10.4 S4 M4LC4 | 300 | A552_10.4 P160 BN160MR4 | 301 |
| 140 | 708 | 2.8 | 10.3 | 30000 | A602_10.3 S4 M4LC4 | 304 | A602_10.3 P160 BN160MR4 | 305 |
| 148 | 668 | 1.5 | 9.7 | 10800 | A502_9.7 S4 M4LC4 | 296 | A502_9.7 P160 BN160MR4 | 297 |
| 170 | 581 | 3.1 | 8.5 | 22800 | A552_8.5 S4 M4LC4 | 300 | A552_8.5 P160 BN160MR4 | 301 |
| 186 | 531 | 1.8 | 7.7 | 10300 | A502_7.7 S4 M4LC4 | 296 | A502_7.7 P160 BN160MR4 | 297 |
| 202 | 489 | 1.1 | 7.1 | 6640 | A412_7.1 S4 M4LC4 | 292 | | |
| 223 | 443 | 2.0 | 13.1 | 9920 | A502_13.1 S4 M4LC2 | 296 | A502_13.1 P160 BN160MR2 | 297 |
| 248 | 399 | 1.0 | 11.8 | 4690 | A352_11.8 S4 M4LC2 | 288 | | |
| 275 | 360 | 1.1 | 10.6 | 4660 | A352_10.6 S4 M4LC2 | 288 | | |
| 317 | 311 | 1.7 | 9.2 | 6230 | A412_9.2 S4 M4LC2 | 292 | | |
| 377 | 262 | 2.8 | 7.7 | 8650 | A502_7.7 S4 M4LC2 | 296 | A502_7.7 P160 BN160MR2 | 297 |
| 416 | 238 | 1.6 | 7.0 | 4440 | A352_7.0 S4 M4LC2 | 288 | | |
| 456 | 217 | 1.6 | 6.4 | 4380 | A352_6.4 S4 M4LC2 | 288 | | |
| 539 | 183 | 1.9 | 5.4 | 4250 | A352_5.4 S4 M4LC2 | 288 | | |

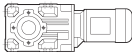




15 kW

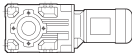


| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 8.1 | 15724 | 0.9 | 180.0 | 75000 | | | A904_180.0 P160 BN160L4 | 315 |
| 8.8 | 14514 | 1.0 | 166.1 | 75000 | | | A904_166.1 P160 BN160L4 | 315 |
| 9.7 | 13490 | 1.0 | 151.0 | 75000 | A903_151.0 S5 M5SB4 | 314 | A903_151.0 P160 BN160L4 | 315 |
| 10.5 | 12452 | 1.0 | 139.4 | 75000 | A903_139.4 S5 M5SB4 | 314 | A903_139.4 P160 BN160L4 | 315 |
| 11.5 | 11314 | 1.2 | 126.6 | 75000 | A903_126.6 S5 M5SB4 | 314 | A903_126.6 P160 BN160L4 | 315 |
| 12.5 | 10443 | 1.3 | 116.9 | 75000 | A903_116.9 S5 M5SB4 | 314 | A903_116.9 P160 BN160L4 | 315 |
| 13.7 | 9543 | 1.5 | 106.8 | 75000 | A903_106.8 S5 M5SB4 | 314 | A903_106.8 P160 BN160L4 | 315 |
| 14.8 | 8808 | 1.6 | 98.6 | 75000 | A903_98.6 S5 M5SB4 | 314 | A903_98.6 P160 BN160L4 | 315 |
| 15.2 | 8578 | 0.9 | 96.0 | 60600 | A803_96.0 S5 M5SB4 | 311 | A803_96.0 P160 BN160L4 | 312 |
| 16.4 | 7967 | 1.0 | 89.2 | 60400 | A803_89.2 S5 M5SB4 | 311 | A803_89.2 P160 BN160L4 | 312 |
| 16.8 | 7778 | 1.8 | 87.1 | 75000 | A903_87.1 S5 M5SB4 | 314 | A903_87.1 P160 BN160L4 | 315 |
| 17.7 | 7354 | 1.1 | 82.3 | 59800 | A803_82.3 S5 M5SB4 | 311 | A803_82.3 P160 BN160L4 | 312 |
| 18.2 | 7180 | 1.9 | 80.4 | 75000 | A903_80.4 S5 M5SB4 | 314 | A903_80.4 P160 BN160L4 | 315 |
| 19.6 | 6654 | 2.1 | 74.5 | 75000 | A903_74.5 S5 M5SB4 | 314 | A903_74.5 P160 BN160L4 | 315 |
| 20.2 | 6465 | 1.2 | 72.4 | 59100 | A803_72.4 S5 M5SB4 | 311 | A803_72.4 P160 BN160L4 | 312 |
| 21.2 | 6142 | 2.3 | 68.8 | 75000 | A903_68.8 S5 M5SB4 | 314 | A903_68.8 P160 BN160L4 | 315 |
| 21.9 | 5968 | 1.3 | 66.8 | 58300 | A803_66.8 S5 M5SB4 | 311 | A803_66.8 P160 BN160L4 | 312 |
| 24.4 | 5340 | 1.5 | 59.8 | 57500 | A803_59.8 S5 M5SB4 | 311 | A803_59.8 P160 BN160L4 | 312 |
| 24.5 | 5326 | 2.6 | 59.6 | 75000 | A903_59.6 S5 M5SB4 | 314 | A903_59.6 P160 BN160L4 | 315 |
| 25.3 | 5152 | 1.0 | 57.7 | 50000 | A703_57.7 S5 M5SB4 | 308 | A703_57.7 P160 BN160L4 | 309 |
| 26.5 | 4930 | 1.6 | 55.2 | 56700 | A803_55.2 S5 M5SB4 | 311 | A803_55.2 P160 BN160L4 | 312 |
| 26.5 | 4916 | 2.8 | 55.0 | 75000 | A903_55.0 S5 M5SB4 | 314 | A903_55.0 P160 BN160L4 | 315 |
| 27.4 | 4755 | 1.1 | 53.2 | 50000 | A703_53.2 S5 M5SB4 | 308 | A703_53.2 P160 BN160L4 | 309 |
| 29.8 | 4377 | 1.1 | 49.0 | 50000 | A703_49.0 S5 M5SB4 | 308 | A703_49.0 P160 BN160L4 | 309 |
| 30 | 4315 | 3.2 | 48.3 | 74900 | | | A903_48.3 P160 BN160L4 | 315 |
| 30 | 4304 | 1.9 | 48.2 | 55500 | A803_48.2 S5 M5SB4 | 311 | A803_48.2 P160 BN160L4 | 312 |
| 32 | 4041 | 1.2 | 45.2 | 50000 | A703_45.2 S5 M5SB4 | 308 | A703_45.2 P160 BN160L4 | 309 |
| 33 | 3983 | 3.5 | 44.6 | 73500 | | | A903_44.6 P160 BN160L4 | 315 |
| 33 | 3973 | 1.9 | 44.5 | 54700 | A803_44.5 S5 M5SB4 | 311 | A803_44.5 P160 BN160L4 | 312 |
| 38 | 3439 | 2.2 | 38.5 | 53200 | | | A803_38.5 P160 BN160L4 | 312 |
| 38 | 3429 | 1.4 | 38.4 | 49900 | A703_38.4 S5 M5SB4 | 308 | A703_38.4 P160 BN160L4 | 309 |
| 41 | 3175 | 2.2 | 35.5 | 52300 | | | A803_35.5 P160 BN160L4 | 312 |
| 41 | 3165 | 1.4 | 35.4 | 49100 | A703_35.4 S5 M5SB4 | 308 | A703_35.4 P160 BN160L4 | 309 |
| 43 | 3064 | 0.9 | 34.3 | 30000 | A603_34.3 S5 M5SB4 | 304 | A603_34.3 P160 BN160L4 | 305 |
| 46 | 2828 | 1.0 | 31.7 | 30000 | A603_31.7 S5 M5SB4 | 304 | A603_31.7 P160 BN160L4 | 305 |
| 48 | 2731 | 2.4 | 30.6 | 50800 | | | A803_30.6 P160 BN160L4 | 312 |
| 49 | 2689 | 1.7 | 30.1 | 47600 | | | A703_30.1 P160 BN160L4 | 309 |
| 52 | 2521 | 2.6 | 28.2 | 49900 | | | A803_28.2 P160 BN160L4 | 312 |
| 52 | 2488 | 1.1 | 27.9 | 30000 | A603_27.9 S5 M5SB4 | 304 | A603_27.9 P160 BN160L4 | 305 |
| 53 | 2482 | 1.7 | 27.8 | 46700 | | | A703_27.8 P160 BN160L4 | 309 |
| 57 | 2297 | 1.2 | 25.7 | 30000 | A603_25.7 S5 M5SB4 | 304 | A603_25.7 P160 BN160L4 | 305 |
| 61 | 2125 | 0.9 | 23.8 | 25000 | A553_23.8 S5 M5SB4 | 300 | A553_23.8 P160 BN160L4 | 301 |
| 62 | 2101 | 2.0 | 23.5 | 45100 | A703_23.5 S5 M5SB4 | 308 | A703_23.5 P160 BN160L4 | 309 |
| 69 | 1903 | 2.1 | 21.3 | 44100 | A703_21.3 S5 M5SB4 | 308 | A703_21.3 P160 BN160L4 | 309 |
| 70 | 1871 | 3.5 | 20.9 | 46600 | A803_20.9 S5 M5SB4 | 311 | A803_20.9 P160 BN160L4 | 312 |
| 71 | 1900 | 1.1 | 20.6 | 30000 | A602_20.6 S5 M5SB4 | 304 | A602_20.6 P160 BN160L4 | 305 |
| 74 | 1757 | 2.1 | 19.7 | 43300 | A703_19.7 S5 M5SB4 | 308 | A703_19.7 P160 BN160L4 | 309 |
| 75 | 1728 | 3.5 | 19.3 | 45700 | A803_19.3 S5 M5SB4 | 311 | A803_19.3 P160 BN160L4 | 312 |
| 76 | 1775 | 1.0 | 19.2 | 26800 | A552_19.2 S5 M5SB4 | 300 | A552_19.2 P160 BN160L4 | 301 |
| 87 | 1544 | 1.3 | 16.7 | 30000 | A602_16.7 S5 M5SB4 | 304 | A602_16.7 P160 BN160L4 | 305 |
| 87 | 1491 | 2.7 | 16.7 | 41600 | A703_16.7 S5 M5SB4 | 308 | A703_16.7 P160 BN160L4 | 309 |

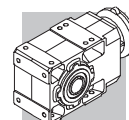


15 kW

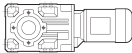
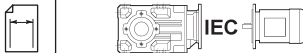

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  | |
|---|----------------------------|----------|----------|----------------------------|---|---|---|-----|
| 93 | 1447 | 1.2 | 15.7 | 25700 | A552_15.7 S5 M5SB4 | 300 | A552_15.7 P160 BN160L4 | 301 |
| 95 | 1376 | 2.7 | 15.4 | 40800 | A703_15.4 S5 M5SB4 | 308 | A703_15.4 P160 BN160L4 | 309 |
| 111 | 1209 | 0.9 | 13.1 | 10500 | | | A502_13.1 P160 BN160L4 | 297 |
| 112 | 1207 | 1.5 | 13.1 | 24700 | A552_13.1 S5 M5SB4 | 300 | A552_13.1 P160 BN160L4 | 301 |
| 112 | 1169 | 3.3 | 13.1 | 39200 | A703_13.1 S5 M5SB4 | 308 | A703_13.1 P160 BN160L4 | 309 |
| 115 | 1172 | 1.7 | 12.7 | 30000 | A602_12.7 S5 M5SB4 | 304 | A602_12.7 P160 BN160L4 | 305 |
| 121 | 1079 | 3.3 | 12.1 | 38400 | A703_12.1 S5 M5SB4 | 308 | A703_12.1 P160 BN160L4 | 309 |
| 123 | 1059 | 1.5 | 23.8 | 22600 | A553_23.8 S5 M5SB4 | 300 | A553_23.8 P160 BN160L4 | 301 |
| 141 | 956 | 1.9 | 10.4 | 23400 | A552_10.4 S5 M5SB4 | 300 | A552_10.4 P160 BN160L4 | 301 |
| 142 | 952 | 2.1 | 10.3 | 30000 | A602_10.3 S5 M5SB4 | 304 | A602_10.3 P160 BN160L4 | 305 |
| 150 | 898 | 1.1 | 9.7 | 10100 | | | A502_9.7 P160 BN160L4 | 297 |
| 173 | 781 | 2.3 | 8.5 | 22200 | A552_8.5 S5 M5SB4 | 300 | A552_8.5 P160 BN160L4 | 301 |
| 186 | 726 | 2.8 | 7.9 | 28300 | A602_7.9 S5 M5SB4 | 304 | A602_7.9 P160 BN160L4 | 305 |
| 189 | 714 | 1.3 | 7.7 | 9750 | | 296 | A502_7.7 P160 BN160L4 | 297 |
| 228 | 592 | 2.9 | 6.4 | 20700 | A552_6.4 S5 M5SB4 | 300 | A552_6.4 P160 BN160L4 | 301 |
| 295 | 456 | 3.5 | 4.9 | 19400 | A552_4.9 S5 M5SB4 | 300 | A552_4.9 P160 BN160L4 | 301 |
| 301 | 448 | 1.8 | 9.7 | 8830 | | | A502_9.7 P160 BN160MB2 | 297 |
| 352 | 383 | 1.3 | 8.3 | 5630 | | | A412_8.3 P160 BN160MB2 | 293 |
| 379 | 356 | 2.1 | 7.7 | 8350 | | | A502_7.7 P160 BN160MB2 | 297 |

18.5 kW

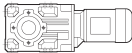
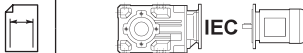

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  | |
|---|----------------------------|----------|----------|----------------------------|---|---|---|-----|
| 11.5 | 13954 | 0.9 | 126.6 | 75000 | A903_126.6 S5 M5LA4 | 314 | A903_126.6 P180 BN180M4 | 315 |
| 12.5 | 12880 | 1.1 | 116.9 | 75000 | A903_116.9 S5 M5LA4 | 314 | A903_116.9 P180 BN180M4 | 315 |
| 13.7 | 11769 | 1.2 | 106.8 | 75000 | A903_106.8 S5 M5LA4 | 314 | A903_106.8 P180 BN180M4 | 315 |
| 14.8 | 10864 | 1.3 | 98.6 | 75000 | A903_98.6 S5 M5LA4 | 314 | A903_98.6 P180 BN180M4 | 315 |
| 16.8 | 9593 | 1.5 | 87.1 | 75000 | A903_87.1 S5 M5LA4 | 314 | A903_87.1 P180 BN180M4 | 315 |
| 18.2 | 8855 | 1.6 | 80.4 | 75000 | A903_80.4 S5 M5LA4 | 314 | A903_80.4 P180 BN180M4 | 315 |
| 19.6 | 8206 | 1.7 | 74.5 | 75000 | A903_74.5 S5 M5LA4 | 314 | A903_74.5 P180 BN180M4 | 315 |
| 20.2 | 7973 | 1.0 | 72.4 | 55600 | A803_72.4 S5 M5LA4 | 311 | A803_72.4 P180 BN180M4 | 312 |
| 21.2 | 7575 | 1.8 | 68.8 | 75000 | A903_68.8 S5 M5LA4 | 314 | A903_68.8 P180 BN180M4 | 315 |
| 21.9 | 7360 | 1.1 | 66.8 | 55100 | | | A803_66.8 P180 BN180M4 | 312 |
| 24.4 | 6586 | 1.2 | 59.8 | 54700 | A803_59.8 S5 M5LA4 | 311 | A803_59.8 P180 BN180M4 | 312 |
| 24.5 | 6568 | 2.1 | 59.6 | 75000 | A903_59.6 S5 M5LA4 | 314 | A903_59.6 P180 BN180M4 | 315 |
| 26.5 | 6080 | 1.3 | 55.2 | 54100 | A803_55.2 S5 M5LA4 | 311 | A803_55.2 P180 BN180M4 | 312 |
| 26.5 | 6063 | 2.3 | 55.0 | 74900 | A903_55.0 S5 M5LA4 | 314 | A903_55.0 P180 BN180M4 | 315 |
| 29.8 | 5399 | 0.9 | 49.0 | 49600 | A703_49.0 S5 M5LA4 | 308 | A703_49.0 P180 BN180M4 | 309 |
| 30 | 5322 | 2.6 | 48.3 | 73100 | | | A903_48.3 P180 BN180M4 | 315 |
| 30 | 5309 | 1.5 | 48.2 | 53200 | A803_48.2 S5 M5LA4 | 311 | A803_48.2 P180 BN180M4 | 312 |
| 32 | 4983 | 1.0 | 45.2 | 49000 | A703_45.2 S5 M5LA4 | 308 | A703_45.2 P180 BN180M4 | 309 |
| 33 | 4912 | 2.9 | 44.6 | 71800 | | | A903_44.6 P180 BN180M4 | 315 |
| 33 | 4900 | 1.5 | 44.5 | 52500 | A803_44.5 S5 M5LA4 | 311 | A803_44.5 P180 BN180M4 | 312 |
| 38 | 4276 | 3.3 | 38.8 | 69700 | | | A903_38.8 P180 BN180M4 | 315 |
| 38 | 4242 | 1.8 | 38.5 | 51400 | | | A803_38.5 P180 BN180M4 | 312 |
| 38 | 4229 | 1.1 | 38.4 | 48000 | A703_38.4 S5 M5LA4 | 308 | A703_38.4 P180 BN180M4 | 309 |
| 41 | 3947 | 3.5 | 35.8 | 68500 | | | A903_35.8 P180 BN180M4 | 315 |
| 41 | 3916 | 1.8 | 35.5 | 50600 | | | A803_35.5 P180 BN180M4 | 312 |

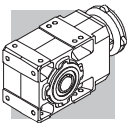


18.5 kW

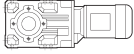




| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  | |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|-----|
| 41 | 3904 | 1.2 | 35.4 | 47300 | A703_35.4 S5 M5LA4 | 308 | A703_35.4 P180 BN180M4 | 309 |
| 48 | 3369 | 1.9 | 30.6 | 49300 | | | A803_30.6 P180 BN180M4 | 312 |
| 49 | 3316 | 1.4 | 30.1 | 46100 | | | A703_30.1 P180 BN180M4 | 309 |
| 52 | 3110 | 2.1 | 28.2 | 48500 | | | A803_28.2 P180 BN180M4 | 312 |
| 52 | 3069 | 0.9 | 27.9 | 30000 | | | A603_27.9 S5 M5LA4 | 304 |
| 53 | 3061 | 1.4 | 27.8 | 45300 | A603_25.7 S5 M5LA4 | 304 | A703_27.8 P180 BN180M4 | 309 |
| 57 | 2833 | 1.0 | 25.7 | 30000 | | | A603_25.7 P180 BN180M4 | 305 |
| 60 | 2699 | 2.5 | 24.5 | 47200 | | | A803_24.5 P180 BN180M4 | 312 |
| 62 | 2591 | 1.7 | 23.5 | 43900 | | | A703_23.5 P180 BN180M4 | 309 |
| 65 | 2492 | 2.5 | 22.6 | 46300 | | | A803_22.6 P180 BN180M4 | 312 |
| 69 | 2347 | 1.7 | 21.3 | 43000 | A703_21.3 S5 M5LA4 | 308 | A703_21.3 P180 BN180M4 | 309 |
| 70 | 2308 | 2.8 | 20.9 | 45600 | A803_20.9 S5 M5LA4 | 311 | A803_20.9 P180 BN180M4 | 312 |
| 74 | 2167 | 1.7 | 19.7 | 42300 | A703_19.7 S5 M5LA4 | 308 | A703_19.7 P180 BN180M4 | 309 |
| 75 | 2131 | 2.8 | 19.3 | 44800 | A803_19.3 S5 M5LA4 | 311 | A803_19.3 P180 BN180M4 | 312 |
| 87 | 1905 | 1.0 | 16.7 | 30000 | A602_16.7 S5 M5LA4 | 304 | A602_16.7 P180 BN180M4 | 305 |
| 87 | 1839 | 2.2 | 16.7 | 40800 | A703_16.7 S5 M5LA4 | 308 | A703_16.7 P180 BN180M4 | 309 |
| 93 | 1785 | 1.0 | 15.7 | 25000 | A552_15.7 S5 M5LA4 | 300 | A552_15.7 P180 BN180M4 | 301 |
| 95 | 1697 | 2.2 | 15.4 | 40100 | A703_15.4 S5 M5LA4 | 308 | A703_15.4 P180 BN180M4 | 309 |
| 112 | 1488 | 1.2 | 13.1 | 24100 | A552_13.1 S5 M5LA4 | 300 | A552_13.1 P180 BN180M4 | 301 |
| 112 | 1442 | 2.7 | 13.1 | 38600 | A703_13.1 S5 M5LA4 | 308 | A703_13.1 P180 BN180M4 | 309 |
| 115 | 1446 | 1.4 | 12.7 | 30000 | A602_12.7 S5 M5LA4 | 304 | A602_12.7 P180 BN180M4 | 305 |
| 121 | 1331 | 2.7 | 12.1 | 37800 | A703_12.1 S5 M5LA4 | 308 | A703_12.1 P180 BN180M4 | 309 |
| 123 | 1306 | 1.2 | 23.8 | 21600 | A553_23.8 S5 M5SC2 | 300 | A553_23.8 P160 BN160L2 | 301 |
| 141 | 1179 | 1.5 | 10.4 | 22900 | A552_10.4 S5 M5LA4 | 300 | A552_10.4 P180 BN180M4 | 301 |
| 142 | 1174 | 1.7 | 10.3 | 29900 | A602_10.3 S5 M5LA4 | 304 | A602_10.3 P180 BN180M4 | 305 |
| 143 | 1127 | 2.9 | 10.2 | 36300 | A703_10.2 S5 M5LA4 | 308 | A703_10.2 P180 BN180M4 | 309 |
| 150 | 1108 | 0.9 | 9.7 | 9530 | A502_9.7 S5 M5LA4 | 296 | A502_9.7 P180 BN180M4 | 297 |
| 155 | 1040 | 2.9 | 9.4 | 35600 | A703_9.4 S5 M5LA4 | 308 | A703_9.4 P180 BN180M4 | 309 |
| 173 | 963 | 1.9 | 8.5 | 21900 | A552_8.5 S5 M5LA4 | 300 | A552_8.5 P180 BN180M4 | 301 |
| 186 | 895 | 2.2 | 7.9 | 27900 | A602_7.9 S5 M5LA4 | 304 | A602_7.9 P180 BN180M4 | 305 |
| 189 | 881 | 1.1 | 7.7 | 9260 | A552_6.4 S5 M5LA4 | 300 | A502_7.7 P180 BN180M4 | 297 |
| 228 | 730 | 2.3 | 6.4 | 20400 | | | A552_6.4 P180 BN180M4 | 301 |
| 295 | 563 | 2.8 | 4.9 | 19100 | | | A552_4.9 P180 BN180M4 | 301 |
| 379 | 439 | 1.7 | 7.7 | 8100 | A502_7.7 P160 BN160L2 | | | 297 |

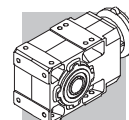
22 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  | |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|-----|
| 12.5 | 15317 | 0.9 | 116.9 | 75000 | | | A903_116.9 P180 BN180L4 | 315 |
| 13.7 | 13996 | 1.0 | 106.8 | 75000 | | | A903_106.8 P180 BN180L4 | 315 |
| 14.8 | 12919 | 1.1 | 98.6 | 75000 | | | A903_98.6 P180 BN180L4 | 315 |
| 16.8 | 11408 | 1.2 | 87.1 | 75000 | | | A903_87.1 P180 BN180L4 | 315 |
| 18.2 | 10530 | 1.3 | 80.4 | 75000 | | | A903_80.4 P180 BN180L4 | 315 |
| 19.6 | 9758 | 1.4 | 74.5 | 75000 | | | A903_74.5 P180 BN180L4 | 315 |
| 21.2 | 9008 | 1.6 | 68.8 | 75000 | A903_68.8 P180 BN180L4 | 315 | | |
| 21.9 | 8753 | 0.9 | 66.8 | 51900 | A803_66.8 P180 BN180L4 | 312 | | |
| 24.4 | 7832 | 1.0 | 59.8 | 51800 | A803_59.8 P180 BN180L4 | 312 | | |
| 24.5 | 7811 | 1.8 | 59.6 | 73800 | A903_59.6 P180 BN180L4 | | | 315 |

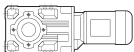






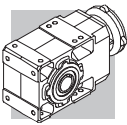
22 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  IEC  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 26.5 | 7230 | 1.1 | 55.2 | 51400 | | | A803_55.2 P180 BN180L4 | 312 |
| 26.5 | 7210 | 1.9 | 55.0 | 72700 | | | A903_55.0 P180 BN180L4 | 315 |
| 30 | 6328 | 2.2 | 48.3 | 71100 | | | A903_48.3 P180 BN180L4 | 315 |
| 30 | 6313 | 1.3 | 48.2 | 50900 | | | A803_48.2 P180 BN180L4 | 312 |
| 33 | 5842 | 2.4 | 44.6 | 70000 | | | A903_44.6 P180 BN180L4 | 315 |
| 33 | 5827 | 1.3 | 44.5 | 50300 | | | A803_44.5 P180 BN180L4 | 312 |
| 38 | 5085 | 2.8 | 38.8 | 68100 | | | A903_38.8 P180 BN180L4 | 315 |
| 38 | 5044 | 1.5 | 38.5 | 49500 | | | A803_38.5 P180 BN180L4 | 312 |
| 38 | 5029 | 1.0 | 38.4 | 46000 | | | A703_38.4 P180 BN180L4 | 309 |
| 41 | 4694 | 2.9 | 35.8 | 67000 | | | A903_35.8 P180 BN180L4 | 315 |
| 41 | 4656 | 1.5 | 35.5 | 48900 | | | A803_35.5 P180 BN180L4 | 312 |
| 41 | 4642 | 1.0 | 35.4 | 45500 | | | A703_35.4 P180 BN180L4 | 309 |
| 46 | 4127 | 3.4 | 31.5 | 65200 | | | A903_31.5 P180 BN180L4 | 315 |
| 48 | 4006 | 1.6 | 30.6 | 47800 | | | A803_30.6 P180 BN180L4 | 312 |
| 49 | 3944 | 1.2 | 30.1 | 44500 | | | A703_30.1 P180 BN180L4 | 309 |
| 50 | 3810 | 3.4 | 29.1 | 64000 | | | A903_29.1 P180 BN180L4 | 315 |
| 52 | 3698 | 1.8 | 28.2 | 47100 | | | A803_28.2 P180 BN180L4 | 312 |
| 53 | 3640 | 1.2 | 27.8 | 43900 | | | A703_27.8 P180 BN180L4 | 309 |
| 60 | 3210 | 2.1 | 24.5 | 45900 | | | A803_24.5 P180 BN180L4 | 312 |
| 62 | 3082 | 1.4 | 23.5 | 42700 | | | A703_23.5 P180 BN180L4 | 309 |
| 65 | 2963 | 2.1 | 22.6 | 45200 | | | A803_22.6 P180 BN180L4 | 312 |
| 69 | 2791 | 1.4 | 21.3 | 41900 | | | A703_21.3 P180 BN180L4 | 309 |
| 70 | 2745 | 2.4 | 20.9 | 44600 | | | A803_20.9 P180 BN180L4 | 312 |
| 74 | 2577 | 1.4 | 19.7 | 41200 | | | A703_19.7 P180 BN180L4 | 309 |
| 75 | 2534 | 2.4 | 19.3 | 43800 | | | A803_19.3 P180 BN180L4 | 312 |
| 87 | 2193 | 3.0 | 16.7 | 42500 | | | A803_16.7 P180 BN180L4 | 312 |
| 87 | 2187 | 1.8 | 16.7 | 39900 | | | A703_16.7 P180 BN180L4 | 309 |
| 94 | 2024 | 3.0 | 15.5 | 41700 | | | A803_15.5 P180 BN180L4 | 312 |
| 95 | 2018 | 1.8 | 15.4 | 39200 | | | A703_15.4 P180 BN180L4 | 309 |
| 112 | 1770 | 1.0 | 13.1 | 23500 | | | A552_13.1 P180 BN180L4 | 301 |
| 112 | 1715 | 2.2 | 13.1 | 37900 | | | A703_13.1 P180 BN180L4 | 309 |
| 115 | 1719 | 1.2 | 12.7 | 30000 | | | A602_12.7 P180 BN180L4 | 305 |
| 121 | 1583 | 2.2 | 12.1 | 37200 | | | A703_12.1 P180 BN180L4 | 309 |
| 123 | 1553 | 1.0 | 23.8 | 20900 | A553_23.8 S5 M5LA2 | 300 | A553_23.8 P180 BN180M2 | 301 |
| 141 | 1401 | 1.3 | 10.4 | 22400 | | | A552_10.4 P180 BN180L4 | 301 |
| 142 | 1396 | 1.4 | 10.3 | 29300 | | | A602_10.3 P180 BN180L4 | 305 |
| 143 | 1340 | 2.4 | 10.2 | 35800 | | | A703_10.2 P180 BN180L4 | 309 |
| 155 | 1237 | 2.4 | 9.4 | 35100 | | | A703_9.4 P180 BN180L4 | 309 |
| 173 | 1145 | 1.6 | 8.5 | 21400 | | | A552_8.5 P180 BN180L4 | 301 |
| 186 | 1064 | 1.9 | 7.9 | 27500 | | | A602_7.9 P180 BN180L4 | 305 |
| 189 | 1047 | 0.9 | 7.7 | 8760 | | | A502_7.7 P180 BN180L4 | 297 |
| 228 | 868 | 2.0 | 6.4 | 20100 | | | A552_6.4 P180 BN180L4 | 301 |
| 283 | 698 | 2.6 | 10.4 | 19100 | A552_10.4 S5 M5LA2 | 300 | A552_10.4 P180 BN180M2 | 301 |
| 295 | 669 | 2.4 | 4.9 | 18900 | | | A552_4.9 P180 BN180L4 | 301 |
| 346 | 571 | 3.0 | 8.5 | 18200 | A552_8.5 S5 M5LA2 | 300 | A552_8.5 P180 BN180M2 | 301 |
| 379 | 522 | 1.4 | 7.7 | 7860 | | | A502_7.7 P180 BN180M2 | 297 |

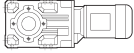





30 kW

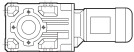



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 16.8 | 15556 | 0.9 | 87.1 | 70100 | | | A903_87.1 P200 BN200L4 | 315 |
| 18.2 | 14360 | 1.0 | 80.4 | 70000 | | | A903_80.4 P200 BN200L4 | 315 |
| 19.6 | 13307 | 1.1 | 74.5 | 69700 | | | A903_74.5 P200 BN200L4 | 315 |
| 21.2 | 12283 | 1.1 | 68.8 | 69200 | | | A903_68.8 P200 BN200L4 | 315 |
| 24.5 | 10651 | 1.3 | 59.6 | 68500 | | | A903_59.6 P200 BN200L4 | 315 |
| 26.5 | 9832 | 1.4 | 55.0 | 67800 | | | A903_55.0 P200 BN200L4 | 315 |
| 30.0 | 8630 | 1.6 | 48.3 | 66900 | | | A903_48.3 P200 BN200L4 | 315 |
| 30 | 8609 | 0.9 | 48.2 | 45700 | | | A803_48.2 P200 BN200L4 | 312 |
| 33 | 7966 | 1.8 | 44.6 | 66000 | | | A903_44.6 P200 BN200L4 | 315 |
| 33 | 7946 | 0.9 | 44.5 | 45500 | | | A803_44.5 P200 BN200L4 | 312 |
| 38 | 6934 | 2.0 | 38.8 | 64700 | | | A903_38.8 P200 BN200L4 | 315 |
| 38 | 6879 | 1.1 | 38.5 | 45300 | | | A803_38.5 P200 BN200L4 | 312 |
| 41 | 6400 | 2.1 | 35.8 | 63800 | | | A903_35.8 P200 BN200L4 | 315 |
| 41 | 6349 | 1.1 | 35.5 | 45000 | | | A803_35.5 P200 BN200L4 | 312 |
| 46 | 5628 | 2.5 | 31.5 | 62400 | | | A903_31.5 P200 BN200L4 | 315 |
| 48 | 5463 | 1.2 | 30.6 | 44500 | | | A803_30.6 P200 BN200L4 | 312 |
| 50 | 5195 | 2.5 | 29.1 | 61400 | | | A903_29.1 P200 BN200L4 | 315 |
| 52 | 5043 | 1.3 | 28.2 | 44000 | | | A803_28.2 P200 BN200L4 | 312 |
| 60 | 4377 | 1.5 | 24.5 | 43300 | | | A803_24.5 P200 BN200L4 | 312 |
| 61 | 4307 | 3.1 | 24.1 | 59200 | | | A903_24.1 P200 BN200L4 | 315 |
| 62 | 4202 | 1.0 | 23.5 | 40100 | | | A703_23.5 P200 BN200L4 | 309 |
| 65 | 4041 | 1.5 | 22.6 | 42700 | | | A803_22.6 P200 BN200L4 | 312 |
| 66 | 3976 | 3.1 | 22.3 | 58200 | | | A903_22.3 P200 BN200L4 | 315 |
| 70 | 3752 | 3.3 | 21.0 | 57500 | | | A903_21.0 P200 BN200L4 | 315 |
| 70 | 3743 | 1.7 | 20.9 | 42300 | | | A803_20.9 P200 BN200L4 | 312 |
| 75 | 3463 | 3.3 | 19.4 | 56500 | | | A903_19.4 P200 BN200L4 | 315 |
| 75 | 3455 | 1.8 | 19.3 | 41700 | | | A803_19.3 P200 BN200L4 | 312 |
| 87 | 2991 | 2.2 | 16.7 | 40700 | | | A803_16.7 P200 BN200L4 | 312 |
| 87 | 2982 | 1.3 | 16.7 | 38100 | | | A703_16.7 P200 BN200L4 | 309 |
| 94 | 2761 | 2.2 | 15.5 | 40000 | | | A803_15.5 P200 BN200L4 | 312 |
| 95 | 2752 | 1.3 | 15.4 | 37500 | | | A703_15.4 P200 BN200L4 | 309 |
| 110 | 2375 | 2.8 | 13.3 | 38900 | | | A803_13.3 P200 BN200L4 | 312 |
| 112 | 2338 | 1.6 | 13.1 | 36400 | | | A703_13.1 P200 BN200L4 | 309 |
| 119 | 2192 | 2.8 | 12.3 | 38200 | | | A803_12.3 P200 BN200L4 | 312 |
| 121 | 2158 | 1.6 | 12.1 | 35800 | | | A703_12.1 P200 BN200L4 | 309 |
| 125 | 2094 | 1.7 | 23.5 | 35600 | | | A703_23.5 P200 BN200LA2 | 309 |
| 137 | 1903 | 3.4 | 10.7 | 37100 | | | A803_10.7 P200 BN200L4 | 312 |
| 143 | 1827 | 1.8 | 10.2 | 34600 | | | A703_10.2 P200 BN200L4 | 309 |
| 148 | 1757 | 3.4 | 9.8 | 36500 | | | A803_9.8 P200 BN200L4 | 312 |
| 155 | 1687 | 1.8 | 9.4 | 34000 | | | A703_9.4 P200 BN200L4 | 309 |
| 176 | 1486 | 2.3 | 16.7 | 33100 | | | A703_16.7 P200 BN200LA2 | 309 |
| 190 | 1371 | 2.3 | 15.4 | 32500 | | | A703_15.4 P200 BN200LA2 | 309 |
| 224 | 1165 | 2.7 | 13.1 | 31300 | | | A703_13.1 P200 BN200LA2 | 309 |
| 243 | 1075 | 2.7 | 12.1 | 30600 | | | A703_12.1 P200 BN200LA2 | 309 |
| 287 | 910 | 3.2 | 10.2 | 29400 | | | A703_10.2 P200 BN200LA2 | 309 |
| 310 | 840 | 3.2 | 9.4 | 28800 | | | A703_9.4 P200 BN200LA2 | 309 |

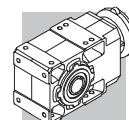


37 kW

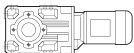



| n ₂ min-1 | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 21.5 | 14945 | 0.9 | 68.8 | 63900 | | | A903_68.8 P225 BN225S4 | 315 |
| 24.8 | 12959 | 1.1 | 59.6 | 63900 | | | A903_59.6 P225 BN225S4 | 315 |
| 26.9 | 11962 | 1.2 | 55.0 | 63600 | | | A903_55.0 P225 BN225S4 | 315 |
| 31 | 10499 | 1.3 | 48.3 | 63100 | | | A903_48.3 P225 BN225S4 | 315 |
| 33 | 9692 | 1.4 | 44.6 | 62500 | | | A903_44.6 P225 BN225S4 | 315 |
| 38 | 8436 | 1.7 | 38.8 | 61700 | | | A903_38.8 P225 BN225S4 | 315 |
| 38 | 8369 | 0.9 | 38.5 | 41700 | | | A803_38.5 P225 BN225S4 | 312 |
| 41 | 7787 | 1.8 | 35.8 | 61000 | | | A903_35.8 P225 BN225S4 | 315 |
| 42 | 7725 | 0.9 | 35.5 | 41600 | | | A803_35.5 P225 BN225S4 | 312 |
| 47 | 6847 | 2.0 | 31.5 | 59900 | | | A903_31.5 P225 BN225S4 | 315 |
| 48 | 6647 | 1.0 | 30.6 | 41600 | | | A803_30.6 P225 BN225S4 | 312 |
| 51 | 6321 | 2.1 | 29.1 | 59100 | | | A903_29.1 P225 BN225S4 | 315 |
| 52 | 6135 | 1.1 | 28.2 | 41300 | | | A803_28.2 P225 BN225S4 | 312 |
| 60 | 5326 | 1.3 | 24.5 | 40900 | | | A803_24.5 P225 BN225S4 | 312 |
| 61 | 5241 | 2.5 | 24.1 | 57300 | | | A903_24.1 P225 BN225S4 | 315 |
| 65 | 4916 | 1.3 | 22.6 | 40500 | | | A803_22.6 P225 BN225S4 | 312 |
| 67 | 4837 | 2.5 | 22.3 | 56400 | | | A903_22.3 P225 BN225S4 | 315 |
| 70 | 4565 | 2.7 | 21.0 | 55900 | | | A903_21.0 P225 BN225S4 | 315 |
| 71 | 4554 | 1.4 | 20.9 | 40300 | | | A803_20.9 P225 BN225S4 | 312 |
| 76 | 4214 | 2.7 | 19.4 | 54900 | | | A903_19.4 P225 BN225S4 | 315 |
| 77 | 4204 | 1.4 | 19.3 | 39800 | | | A803_19.3 P225 BN225S4 | 312 |
| 88 | 3668 | 3.2 | 16.9 | 53400 | | | A903_16.9 P225 BN225S4 | 315 |
| 88 | 3639 | 1.8 | 16.7 | 39100 | | | A803_16.7 P225 BN225S4 | 312 |
| 95 | 3386 | 3.2 | 15.6 | 52500 | | | A903_15.6 P225 BN225S4 | 315 |
| 96 | 3359 | 1.8 | 15.5 | 38500 | | | A803_15.5 P225 BN225S4 | 312 |
| 111 | 2890 | 2.3 | 13.3 | 37600 | | | A803_13.3 P225 BN225S4 | 312 |
| 121 | 2667 | 2.3 | 12.3 | 37000 | | | A803_12.3 P225 BN225S4 | 312 |
| 139 | 2316 | 2.8 | 10.7 | 36100 | | | A803_10.7 P225 BN225S4 | 312 |
| 151 | 2137 | 2.8 | 9.8 | 35500 | | | A803_9.8 P225 BN225S4 | 312 |

45 kW

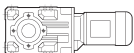



| n ₂ min-1 | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 26.9 | 14549 | 1.0 | 55.0 | 58700 | | | A903_55.0 P225 BN225M4 | 315 |
| 31 | 12769 | 1.1 | 48.3 | 58900 | | | A903_48.3 P225 BN225M4 | 315 |
| 33 | 11787 | 1.2 | 44.6 | 58600 | | | A903_44.6 P225 BN225M4 | 315 |
| 38 | 10260 | 1.4 | 38.8 | 58300 | | | A903_38.8 P225 BN225M4 | 315 |
| 41 | 9471 | 1.5 | 35.8 | 57800 | | | A903_35.8 P225 BN225M4 | 315 |
| 47 | 8328 | 1.7 | 31.5 | 57200 | | | A903_31.5 P225 BN225M4 | 315 |
| 51 | 7687 | 1.7 | 29.1 | 56600 | | | A903_29.1 P225 BN225M4 | 315 |
| 60 | 6477 | 1.0 | 24.5 | 38300 | | | A803_24.5 P225 BN225M4 | 312 |
| 61 | 6374 | 2.1 | 24.1 | 55200 | | | A903_24.1 P225 BN225M4 | 315 |
| 65 | 5979 | 1.0 | 22.6 | 38100 | | | A803_22.6 P225 BN225M4 | 312 |
| 67 | 5883 | 2.1 | 22.3 | 54500 | | | A903_22.3 P225 BN225M4 | 315 |
| 70 | 5552 | 2.2 | 21.0 | 54000 | | | A903_21.0 P225 BN225M4 | 315 |
| 71 | 5539 | 1.2 | 20.9 | 38000 | | | A803_20.9 P225 BN225M4 | 312 |
| 76 | 5125 | 2.3 | 19.4 | 53200 | | | A903_19.4 P225 BN225M4 | 315 |
| 77 | 5112 | 1.2 | 19.3 | 37700 | | | A803_19.3 P225 BN225M4 | 312 |

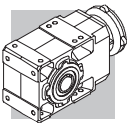


45 kW

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 88 | 4461 | 2.7 | 16.9 | 52000 | | | A903_16.9 P225 BN225M4 | 315 |
| 88 | 4425 | 1.5 | 16.7 | 37300 | | | A803_16.7 P225 BN225M4 | 312 |
| 95 | 4118 | 2.7 | 15.6 | 51100 | | | A903_15.6 P225 BN225M4 | 315 |
| 96 | 4085 | 1.5 | 15.5 | 36900 | | | A803_15.5 P225 BN225M4 | 312 |
| 108 | 3621 | 3.1 | 13.7 | 49900 | | | A903_13.7 P225 BN225M4 | 315 |
| 111 | 3515 | 1.9 | 13.3 | 36200 | | | A803_13.3 P225 BN225M4 | 312 |
| 117 | 3342 | 3.1 | 12.6 | 49000 | | | A903_12.6 P225 BN225M4 | 315 |
| 121 | 3244 | 1.9 | 12.3 | 35700 | | | A803_12.3 P225 BN225M4 | 312 |
| 139 | 2816 | 2.3 | 10.7 | 34900 | | | A803_10.7 P225 BN225M4 | 312 |
| 141 | 2771 | 3.5 | 10.5 | 47100 | | | A903_10.5 P225 BN225M4 | 315 |
| 151 | 2600 | 2.3 | 9.8 | 34400 | | | A803_9.8 P225 BN225M4 | 312 |
| 153 | 2558 | 3.5 | 9.7 | 46200 | | | A903_9.7 P225 BN225M4 | 315 |

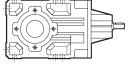

55 kW

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 33 | 14406 | 1.0 | 44.6 | 53900 | | | A903_44.6 P250 BN250M4 | 315 |
| 38 | 12540 | 1.1 | 38.8 | 54100 | | | A903_38.8 P250 BN250M4 | 315 |
| 41 | 11575 | 1.2 | 35.8 | 54000 | | | A903_35.8 P250 BN250M4 | 315 |
| 47 | 10179 | 1.4 | 31.5 | 53800 | | | A903_31.5 P250 BN250M4 | 315 |
| 51 | 9396 | 1.4 | 29.1 | 53400 | | | A903_29.1 P250 BN250M4 | 315 |
| 61 | 7790 | 1.7 | 24.1 | 52600 | | | A903_24.1 P250 BN250M4 | 315 |
| 67 | 7191 | 1.7 | 22.3 | 52000 | | | A903_22.3 P250 BN250M4 | 315 |
| 70 | 6786 | 1.8 | 21.0 | 51700 | | | A903_21.0 P250 BN250M4 | 315 |
| 76 | 6264 | 1.8 | 19.4 | 51100 | | | A903_19.4 P250 BN250M4 | 315 |
| 88 | 5452 | 2.2 | 16.9 | 50100 | | | A903_16.9 P250 BN250M4 | 315 |
| 95 | 5033 | 2.2 | 15.6 | 49400 | | | A903_15.6 P250 BN250M4 | 315 |
| 108 | 4425 | 2.5 | 13.7 | 48400 | | | A903_13.7 P250 BN250M4 | 315 |
| 117 | 4085 | 2.6 | 12.6 | 47600 | | | A903_12.6 P250 BN250M4 | 315 |
| 141 | 3387 | 2.9 | 10.5 | 45900 | | | A903_10.5 P250 BN250M4 | 315 |
| 153 | 3126 | 2.9 | 9.7 | 45100 | | | A903_9.7 P250 BN250M4 | 315 |

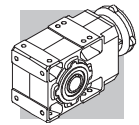


40 DONNEES TECHNIQUES REDUCTEURS

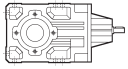

A 10 150 Nm

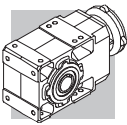
|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 10 2_5.5 | 5.5 | 512 | 73 | 4.2 | — | 1830 | 256 | 73 | 2.1 | 960 | 2460 | 277 |
| A 10 2_6.3 | 6.3 | 442 | 80 | 3.9 | — | 1900 | 221 | 80 | 2.0 | 830 | 2560 | |
| A 10 2_7.2 | 7.2 | 388 | 92 | 4.0 | — | 1910 | 194 | 93 | 2.0 | 630 | 2600 | |
| A 10 2_8.5 | 8.5 | 329 | 92 | 3.4 | — | 2060 | 164 | 93 | 1.7 | 720 | 2790 | |
| A 10 2_9.6 | 9.6 | 291 | 102 | 3.3 | — | 2090 | 146 | 128 | 2.1 | — | 2650 | |
| A 10 2_10.6 | 10.6 | 265 | 125 | 3.7 | 540 | 2010 | 133 | 150 | 2.2 | 810 | 2590 | |
| A 10 2_12.3 | 12.3 | 228 | 110 | 2.8 | — | 2280 | 114 | 138 | 1.7 | — | 2880 | |
| A 10 2_13.9 | 13.9 | 201 | 135 | 3.0 | 620 | 2220 | 101 | 150 | 1.7 | 1080 | 2960 | |
| A 10 2_16.4 | 16.4 | 170 | 140 | 2.7 | 610 | 2370 | 85 | 150 | 1.4 | 1140 | 3200 | |
| A 10 2_18.6 | 18.6 | 151 | 147 | 2.5 | 650 | 2460 | 75 | 150 | 1.3 | 1180 | 3380 | |
| A 10 2_21.4 | 21.4 | 131 | 150 | 2.2 | 650 | 2610 | 66 | 150 | 1.1 | 1200 | 3600 | |
| A 10 2_23.8 | 23.8 | 118 | 150 | 2.0 | 750 | 2750 | 59 | 150 | 0.98 | 1220 | 3780 | |
| A 10 2_25.5 | 25.5 | 110 | 150 | 1.8 | 750 | 2840 | 55 | 150 | 0.92 | 1220 | 3900 | |
| A 10 2_28.6 | 28.6 | 98 | 150 | 1.6 | 830 | 3000 | 49 | 150 | 0.82 | 1250 | 4100 | |
| A 10 2_32.2 | 32.2 | 87 | 150 | 1.5 | 880 | 3170 | 43 | 150 | 0.73 | 1270 | 4310 | |
| A 10 2_35.1 | 35.1 | 80 | 150 | 1.3 | 880 | 3300 | 40 | 150 | 0.67 | 1270 | 4470 | |
| A 10 2_40.9 | 40.9 | 69 | 150 | 1.1 | 910 | 3530 | 34 | 150 | 0.57 | 1300 | 4770 | |
| A 10 2_45.4 | 45.4 | 62 | 150 | 1.0 | 910 | 3700 | 31 | 150 | 0.52 | 1300 | 4980 | |
| A 10 2_51.3 | 51.3 | 55 | 150 | 0.91 | 910 | 3910 | 27.3 | 150 | 0.46 | 1290 | 5240 | |
| A 10 2_58.6 | 58.6 | 48 | 150 | 0.80 | 920 | 4140 | 23.9 | 150 | 0.40 | 1300 | 5500 | |
| A 10 2_65.9 | 65.9 | 42 | 150 | 0.71 | 920 | 4360 | 21.2 | 150 | 0.35 | 1300 | 5500 | |
| A 10 2_76.4 | 76.4 | 37 | 150 | 0.61 | 930 | 4640 | 18.3 | 150 | 0.31 | 1300 | 5500 | |
| A 10 2_91.6 | 91.6 | 31 | 130 | 0.44 | 1020 | 5160 | 15.3 | 130 | 0.22 | 1300 | 5500 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



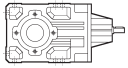

A 10 150 Nm

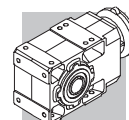
|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 10 2_5.5 | 5.5 | 165 | 73 | 1.3 | 1300 | 2950 | 91 | 73 | 0.74 | 1300 | 3720 | 277 |
| A 10 2_6.3 | 6.3 | 142 | 80 | 1.3 | 1300 | 3070 | 79 | 80 | 0.70 | 1300 | 4100 | |
| A 10 2_7.2 | 7.2 | 125 | 93 | 1.3 | 1160 | 3130 | 69 | 93 | 0.72 | 1300 | 3970 | |
| A 10 2_8.5 | 8.5 | 106 | 95 | 1.1 | 1200 | 3330 | 59 | 110 | 0.72 | 1300 | 4100 | |
| A 10 2_9.6 | 9.6 | 94 | 128 | 1.3 | 500 | 3230 | 52 | 128 | 0.74 | 1300 | 4160 | |
| A 10 2_10.6 | 10.6 | 85 | 150 | 1.4 | 1300 | 3200 | 47 | 150 | 0.79 | 1300 | 4160 | |
| A 10 2_12.3 | 12.3 | 73 | 150 | 1.2 | 180 | 3420 | 41 | 150 | 0.68 | 1030 | 4430 | |
| A 10 2_13.9 | 13.9 | 65 | 150 | 1.1 | 1300 | 3630 | 36 | 150 | 0.60 | 1300 | 4680 | |
| A 10 2_16.4 | 16.4 | 55 | 150 | 0.91 | 1300 | 3900 | 30 | 150 | 0.51 | 1300 | 5010 | |
| A 10 2_18.6 | 18.6 | 48 | 150 | 0.81 | 1300 | 4120 | 26.9 | 150 | 0.45 | 1300 | 5270 | |
| A 10 2_21.4 | 21.4 | 42 | 150 | 0.70 | 1300 | 4370 | 23.4 | 150 | 0.39 | 1300 | 5500 | |
| A 10 2_23.8 | 23.8 | 38 | 150 | 0.63 | 1300 | 4570 | 21.0 | 150 | 0.35 | 1300 | 5500 | |
| A 10 2_25.5 | 25.5 | 35 | 150 | 0.59 | 1300 | 4710 | 19.6 | 150 | 0.33 | 1300 | 5500 | |
| A 10 2_28.6 | 28.6 | 31 | 150 | 0.53 | 1300 | 4940 | 17.5 | 150 | 0.29 | 1300 | 5500 | |
| A 10 2_32.2 | 32.2 | 28.0 | 150 | 0.47 | 1300 | 5190 | 15.5 | 150 | 0.26 | 1300 | 5500 | |
| A 10 2_35.1 | 35.1 | 25.6 | 150 | 0.43 | 1300 | 5380 | 14.2 | 150 | 0.24 | 1300 | 5500 | |
| A 10 2_40.9 | 40.9 | 22.0 | 150 | 0.37 | 1300 | 5500 | 12.2 | 150 | 0.20 | 1300 | 5500 | |
| A 10 2_45.4 | 45.4 | 19.8 | 150 | 0.33 | 1300 | 5500 | 11.0 | 150 | 0.18 | 1300 | 5500 | |
| A 10 2_51.3 | 51.3 | 17.6 | 150 | 0.29 | 1300 | 5500 | 9.8 | 150 | 0.16 | 1300 | 5500 | |
| A 10 2_58.6 | 58.6 | 15.4 | 150 | 0.26 | 1300 | 5500 | 8.5 | 150 | 0.14 | 1300 | 5500 | |
| A 10 2_65.9 | 65.9 | 13.7 | 150 | 0.23 | 1300 | 5500 | 7.6 | 150 | 0.13 | 1300 | 5500 | |
| A 10 2_76.4 | 76.4 | 11.8 | 150 | 0.20 | 1300 | 5500 | 6.5 | 150 | 0.11 | 1300 | 5500 | |
| A 10 2_91.6 | 91.6 | 9.8 | 130 | 0.14 | 1300 | 5500 | 5.5 | 130 | 0.08 | 1300 | 5500 | |



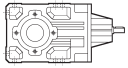

A 20

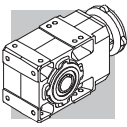
250 Nm

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 20 2_5.4 | 5.4 | 523 | 96 | 5.6 | 610 | 1910 | 262 | 121 | 3.5 | 770 | 2400 | 281 |
| A 20 2_6.5 | 6.5 | 428 | 107 | 5.1 | 490 | 2010 | 214 | 135 | 3.2 | 610 | 2530 | |
| A 20 2_7.3 | 7.3 | 384 | 113 | 4.8 | 510 | 2070 | 192 | 143 | 3.1 | 630 | 2600 | |
| A 20 2_8.4 | 8.4 | 334 | 116 | 4.3 | 510 | 2180 | 167 | 146 | 2.7 | 650 | 2750 | |
| A 20 2_9.4 | 9.4 | 299 | 122 | 4.1 | 530 | 2260 | 149 | 154 | 2.6 | 660 | 2840 | |
| A 20 2_10.3 | 10.3 | 271 | 183 | 5.5 | 650 | 1970 | 135 | 225 | 3.4 | 890 | 2520 | |
| A 20 2_12.0 | 12.0 | 234 | 128 | 3.3 | 550 | 2280 | 117 | 161 | 2.1 | 690 | 3120 | |
| A 20 2_14.1 | 14.1 | 199 | 199 | 4.4 | 750 | 2210 | 99 | 245 | 2.7 | 960 | 2820 | |
| A 20 2_16.2 | 16.2 | 173 | 209 | 4.0 | 700 | 2310 | 87 | 250 | 2.4 | 1040 | 2990 | |
| A 20 2_18.1 | 18.1 | 155 | 216 | 3.7 | 760 | 2400 | 77 | 250 | 2.2 | 1210 | 3170 | |
| A 20 2_21.2 | 21.2 | 132 | 226 | 3.3 | 710 | 2540 | 66 | 250 | 1.8 | 1290 | 3430 | |
| A 20 2_23.1 | 23.1 | 121 | 232 | 3.1 | 710 | 2620 | 61 | 250 | 1.7 | 1360 | 3580 | |
| A 20 2_26.5 | 26.5 | 106 | 241 | 2.8 | 660 | 2750 | 53 | 250 | 1.5 | 1410 | 3820 | |
| A 20 2_29.2 | 29.2 | 96 | 249 | 2.7 | 670 | 2850 | 48 | 250 | 1.3 | 1510 | 4000 | |
| A 20 2_31.3 | 31.3 | 89 | 250 | 2.5 | 660 | 2940 | 45 | 250 | 1.2 | 1510 | 4130 | |
| A 20 2_35.4 | 35.4 | 79 | 250 | 2.2 | 800 | 3140 | 40 | 250 | 1.1 | 1650 | 4380 | |
| A 20 2_39.6 | 39.6 | 71 | 250 | 2.0 | 880 | 3320 | 35 | 250 | 0.98 | 1710 | 4600 | |
| A 20 2_43.2 | 43.2 | 65 | 250 | 1.8 | 880 | 3460 | 32 | 250 | 0.90 | 1710 | 4790 | |
| A 20 2_48.3 | 48.3 | 58 | 250 | 1.6 | 920 | 3650 | 29.0 | 250 | 0.81 | 1720 | 5030 | |
| A 20 2_53.7 | 53.7 | 52 | 250 | 1.5 | 920 | 3840 | 26.1 | 250 | 0.73 | 1720 | 5270 | |
| A 20 2_63.1 | 63.1 | 44 | 245 | 1.2 | 1040 | 4180 | 22.2 | 245 | 0.61 | 1740 | 5680 | |
| A 20 2_71.0 | 71.0 | 39 | 210 | 0.92 | 1360 | 4640 | 19.7 | 210 | 0.46 | 1790 | 6200 | |
| A 20 2_79.9 | 79.9 | 35 | 210 | 0.82 | 1360 | 4880 | 17.5 | 210 | 0.41 | 1790 | 6200 | |
| A 20 2_92.3 | 92.3 | 30 | 200 | 0.68 | 1380 | 5250 | 15.2 | 200 | 0.34 | 1810 | 6200 | |
| A 20 3_109.2 | 109.2 | 25.6 | 165 | 0.49 | 1180 | 5900 | 12.8 | 205 | 0.30 | 1300 | 6200 | |
| A 20 3_120.5 | 120.5 | 23.2 | 168 | 0.45 | 1130 | 6110 | 11.6 | 210 | 0.28 | 1300 | 6200 | |
| A 20 3_129.1 | 129.1 | 21.7 | 175 | 0.44 | 1210 | 6200 | 10.8 | 215 | 0.27 | 1300 | 6200 | |
| A 20 3_146.1 | 146.1 | 19.2 | 183 | 0.40 | 1160 | 6200 | 9.6 | 230 | 0.25 | 1300 | 6200 | |
| A 20 3_163.4 | 163.4 | 17.1 | 190 | 0.37 | 1240 | 6200 | 8.6 | 235 | 0.23 | 1300 | 6200 | |
| A 20 3_178.3 | 178.3 | 15.7 | 195 | 0.35 | 1200 | 6200 | 7.9 | 245 | 0.22 | 1300 | 6200 | |
| A 20 3_199.2 | 199.2 | 14.1 | 200 | 0.32 | 1270 | 6200 | 7.0 | 250 | 0.20 | 1300 | 6200 | |
| A 20 3_221.3 | 221.3 | 12.7 | 203 | 0.30 | 1240 | 6200 | 6.3 | 250 | 0.18 | 1300 | 6200 | |
| A 20 3_260.5 | 260.5 | 10.8 | 214 | 0.26 | 1270 | 6200 | 5.4 | 250 | 0.15 | 1300 | 6200 | |
| A 20 3_292.8 | 292.8 | 9.6 | 218 | 0.24 | 1300 | 6200 | 4.8 | 250 | 0.14 | 1300 | 6200 | |
| A 20 3_329.4 | 329.4 | 8.5 | 221 | 0.22 | 1300 | 6200 | 4.3 | 250 | 0.12 | 1300 | 6200 | |
| A 20 3_380.9 | 380.9 | 7.4 | 226 | 0.19 | 1300 | 6200 | 3.7 | 250 | 0.11 | 1300 | 6200 | |



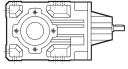

A 20 250 Nm

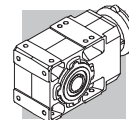
|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 20 2_5.4 | 5.4 | 168 | 140 | 2.6 | 900 | 2780 | 93 | 170 | 1.8 | 1100 | 3390 | 281 |
| A 20 2_6.5 | 6.5 | 138 | 156 | 2.4 | 720 | 2930 | 76 | 190 | 1.6 | 860 | 3570 | |
| A 20 2_7.3 | 7.3 | 123 | 165 | 2.3 | 740 | 3020 | 69 | 201 | 1.5 | 890 | 3670 | |
| A 20 2_8.4 | 8.4 | 108 | 170 | 2.0 | 730 | 3180 | 60 | 206 | 1.4 | 910 | 3870 | |
| A 20 2_9.4 | 9.4 | 96 | 179 | 1.9 | 760 | 3290 | 53 | 210 | 1.2 | 1090 | 4050 | |
| A 20 2_10.3 | 10.3 | 87 | 250 | 2.4 | 1190 | 2990 | 48 | 250 | 1.3 | 2200 | 3980 | |
| A 20 2_12.0 | 12.0 | 75 | 187 | 1.6 | 790 | 2990 | 42 | 210 | 0.98 | 1336 | 4510 | |
| A 20 2_14.1 | 14.1 | 64 | 250 | 1.8 | 1610 | 3490 | 36 | 250 | 0.99 | 2200 | 4590 | |
| A 20 2_16.2 | 16.2 | 56 | 250 | 1.6 | 1690 | 3730 | 31 | 250 | 0.86 | 2200 | 4880 | |
| A 20 2_18.1 | 18.1 | 50 | 250 | 1.4 | 1860 | 3930 | 27.6 | 250 | 0.77 | 2200 | 5140 | |
| A 20 2_21.2 | 21.2 | 42 | 250 | 1.2 | 1940 | 4230 | 23.6 | 250 | 0.66 | 2200 | 5500 | |
| A 20 2_23.1 | 23.1 | 39 | 250 | 1.1 | 1970 | 4400 | 21.6 | 250 | 0.60 | 2200 | 5710 | |
| A 20 2_26.5 | 26.5 | 34 | 250 | 0.95 | 1980 | 4680 | 18.9 | 250 | 0.53 | 2200 | 6050 | |
| A 20 2_29.2 | 29.2 | 31 | 250 | 0.86 | 2000 | 4890 | 17.1 | 250 | 0.48 | 2200 | 6200 | |
| A 20 2_31.3 | 31.3 | 28.7 | 250 | 0.80 | 2000 | 5040 | 16.0 | 250 | 0.44 | 2200 | 6200 | |
| A 20 2_35.4 | 35.4 | 25.4 | 250 | 0.71 | 2020 | 5330 | 14.1 | 250 | 0.39 | 2200 | 6200 | |
| A 20 2_39.6 | 39.6 | 22.7 | 250 | 0.63 | 2040 | 5590 | 12.6 | 250 | 0.35 | 2200 | 6200 | |
| A 20 2_43.2 | 43.2 | 20.8 | 250 | 0.58 | 2040 | 5800 | 11.6 | 250 | 0.32 | 2200 | 6200 | |
| A 20 2_48.3 | 48.3 | 18.6 | 250 | 0.52 | 2040 | 6080 | 10.4 | 250 | 0.29 | 2200 | 6200 | |
| A 20 2_53.7 | 53.7 | 16.8 | 250 | 0.47 | 2050 | 6200 | 9.3 | 250 | 0.26 | 2200 | 6200 | |
| A 20 2_63.1 | 63.1 | 14.3 | 245 | 0.39 | 2060 | 6200 | 7.9 | 245 | 0.22 | 2200 | 6200 | |
| A 20 2_71.0 | 71.0 | 12.7 | 210 | 0.30 | 2120 | 6200 | 7.0 | 210 | 0.16 | 2200 | 6200 | |
| A 20 2_79.9 | 79.9 | 11.3 | 210 | 0.26 | 2120 | 6200 | 6.3 | 210 | 0.15 | 2200 | 6200 | |
| A 20 2_92.3 | 92.3 | 9.7 | 200 | 0.22 | 2140 | 6200 | 5.4 | 200 | 0.12 | 2200 | 6200 | |
| A 20 3_109.2 | 109.2 | 8.2 | 240 | 0.23 | 1300 | 6200 | 4.6 | 250 | 0.13 | 1300 | 6200 | |
| A 20 3_120.5 | 120.5 | 7.5 | 245 | 0.21 | 1300 | 6200 | 4.1 | 250 | 0.12 | 1300 | 6200 | |
| A 20 3_129.1 | 129.1 | 7.0 | 250 | 0.20 | 1300 | 6200 | 3.9 | 250 | 0.11 | 1300 | 6200 | |
| A 20 3_146.1 | 146.1 | 6.2 | 250 | 0.18 | 1300 | 6200 | 3.4 | 250 | 0.10 | 1300 | 6200 | |
| A 20 3_163.4 | 163.4 | 5.5 | 250 | 0.16 | 1300 | 6200 | 3.1 | 250 | 0.09 | 1300 | 6200 | |
| A 20 3_178.3 | 178.3 | 5.0 | 250 | 0.15 | 1300 | 6200 | 2.8 | 250 | 0.08 | 1300 | 6200 | |
| A 20 3_199.2 | 199.2 | 4.5 | 250 | 0.13 | 1300 | 6200 | 2.5 | 250 | 0.07 | 1300 | 6200 | |
| A 20 3_221.3 | 221.3 | 4.1 | 250 | 0.12 | 1300 | 6200 | 2.3 | 250 | 0.06 | 1300 | 6200 | |
| A 20 3_260.5 | 260.5 | 3.5 | 250 | 0.10 | 1300 | 6200 | 1.9 | 250 | 0.06 | 1300 | 6200 | |
| A 20 3_292.8 | 292.8 | 3.1 | 250 | 0.09 | 1300 | 6200 | 1.7 | 250 | 0.05 | 1300 | 6200 | |
| A 20 3_329.4 | 329.4 | 2.7 | 250 | 0.08 | 1300 | 6200 | 1.5 | 250 | 0.04 | 1300 | 6200 | |
| A 20 3_380.9 | 380.9 | 2.4 | 250 | 0.07 | 1300 | 6200 | 1.3 | 250 | 0.04 | 1300 | 6200 | |



A 30

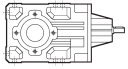

410 Nm

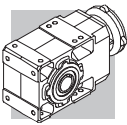
|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 30 2_5.4 | 5.4 | 517 | 175 | 10.1 | 1130 | 2480 | 259 | 220 | 6.3 | 1430 | 3130 | 284 |
| A 30 2_6.4 | 6.4 | 437 | 185 | 9.0 | 1120 | 2630 | 218 | 230 | 5.6 | 1470 | 3330 | |
| A 30 2_7.0 | 7.0 | 399 | 194 | 8.6 | 1140 | 2690 | 199 | 245 | 5.4 | 1430 | 3380 | |
| A 30 2_8.5 | 8.5 | 331 | 200 | 7.4 | 1220 | 2900 | 165 | 250 | 4.6 | 1570 | 3660 | |
| A 30 2_9.3 | 9.3 | 301 | 214 | 7.2 | 1140 | 2950 | 150 | 270 | 4.5 | 1440 | 3710 | |
| A 30 2_10.5 | 10.5 | 268 | 278 | 8.3 | 1800 | 2770 | 134 | 340 | 5.1 | 2200 | 3550 | |
| A 30 2_11.8 | 11.8 | 238 | 230 | 6.1 | 1130 | 3200 | 119 | 290 | 3.8 | 1420 | 4030 | |
| A 30 2_13.6 | 13.6 | 206 | 301 | 6.9 | 1830 | 3030 | 103 | 370 | 4.3 | 2200 | 3870 | |
| A 30 2_16.3 | 16.3 | 171 | 318 | 6.1 | 1830 | 3240 | 86 | 385 | 3.7 | 2200 | 4170 | |
| A 30 2_18.0 | 18.0 | 156 | 327 | 5.7 | 1840 | 3350 | 78 | 400 | 3.5 | 2200 | 4290 | |
| A 30 2_20.5 | 20.5 | 136 | 340 | 5.2 | 1830 | 3510 | 68 | 410 | 3.1 | 2200 | 4530 | |
| A 30 2_22.8 | 22.8 | 123 | 351 | 4.8 | 1850 | 3640 | 62 | 410 | 2.8 | 2200 | 4770 | |
| A 30 2_26.5 | 26.5 | 106 | 367 | 4.3 | 1840 | 3850 | 53 | 410 | 2.4 | 2200 | 5150 | |
| A 30 2_29.3 | 29.3 | 96 | 378 | 4.0 | 1847 | 3980 | 48 | 410 | 2.2 | 2200 | 5400 | |
| A 30 2_33.4 | 33.4 | 84 | 393 | 3.7 | 1840 | 4170 | 42 | 410 | 1.9 | 2200 | 5750 | |
| A 30 2_36.6 | 36.6 | 76 | 404 | 3.4 | 1840 | 4310 | 38 | 410 | 1.7 | 2200 | 6010 | |
| A 30 2_39.3 | 39.3 | 71 | 410 | 3.3 | 1810 | 4430 | 36 | 410 | 1.6 | 2200 | 6200 | |
| A 30 2_43.4 | 43.4 | 64 | 410 | 2.9 | 1850 | 4660 | 32 | 410 | 1.5 | 2200 | 6490 | |
| A 30 2_48.3 | 48.3 | 58 | 410 | 2.6 | 1860 | 4920 | 29.0 | 410 | 1.3 | 2200 | 6810 | |
| A 30 2_52.7 | 52.7 | 53 | 410 | 2.4 | 1860 | 5130 | 26.6 | 410 | 1.2 | 2200 | 7080 | |
| A 30 2_59.4 | 59.4 | 47 | 400 | 2.1 | 1890 | 5500 | 23.6 | 400 | 1.0 | 2200 | 7530 | |
| A 30 2_66.0 | 66.0 | 42 | 390 | 1.8 | 1900 | 5840 | 21.2 | 390 | 0.92 | 2200 | 7940 | |
| A 30 2_76.5 | 76.5 | 37 | 350 | 1.4 | 1950 | 6480 | 18.3 | 350 | 0.71 | 2200 | 8690 | |
| A 30 2_86.7 | 86.7 | 32 | 320 | 1.2 | 2000 | 7010 | 16.2 | 320 | 0.58 | 2200 | 9310 | |
| A 30 2_97.5 | 97.5 | 28.7 | 300 | 0.96 | 2020 | 7480 | 14.4 | 300 | 0.48 | 2200 | 9600 | |
| A 30 3_109.1 | 109.1 | 25.7 | 240 | 0.71 | 1300 | 8240 | 12.8 | 300 | 0.44 | 1300 | 9600 | |
| A 30 3_120.5 | 120.5 | 23.2 | 243 | 0.65 | 1120 | 8540 | 11.6 | 300 | 0.40 | 1300 | 9600 | |
| A 30 3_137.4 | 137.4 | 20.4 | 250 | 0.59 | 1300 | 8950 | 10.2 | 315 | 0.37 | 1300 | 9600 | |
| A 30 3_150.7 | 150.7 | 18.6 | 261 | 0.56 | 1170 | 9210 | 9.3 | 330 | 0.35 | 1300 | 9600 | |
| A 30 3_161.4 | 161.4 | 17.3 | 270 | 0.54 | 1300 | 9410 | 8.7 | 340 | 0.34 | 1300 | 9600 | |
| A 30 3_178.5 | 178.5 | 15.7 | 274 | 0.49 | 1210 | 9600 | 7.8 | 345 | 0.31 | 1300 | 9600 | |
| A 30 3_198.5 | 198.5 | 14.1 | 280 | 0.45 | 1300 | 9600 | 7.1 | 350 | 0.28 | 1300 | 9600 | |
| A 30 3_216.6 | 216.6 | 12.9 | 287 | 0.43 | 1240 | 9600 | 6.5 | 360 | 0.27 | 1300 | 9600 | |
| A 30 3_244.3 | 244.3 | 11.5 | 295 | 0.39 | 1300 | 9600 | 5.7 | 370 | 0.24 | 1300 | 9600 | |
| A 30 3_271.5 | 271.5 | 10.3 | 301 | 0.36 | 1280 | 9600 | 5.2 | 380 | 0.23 | 1300 | 9600 | |
| A 30 3_314.5 | 314.5 | 8.9 | 309 | 0.32 | 1300 | 9600 | 4.5 | 390 | 0.20 | 1300 | 9600 | |
| A 30 3_356.3 | 356.3 | 7.9 | 320 | 0.29 | 1300 | 9600 | 3.9 | 370 | 0.17 | 1300 | 9600 | |
| A 30 3_400.8 | 400.8 | 7.0 | 320 | 0.26 | 1300 | 9600 | 3.5 | 360 | 0.14 | 1300 | 9600 | |



A 30

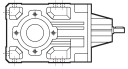

410 Nm

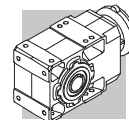
|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 30 2_5.4 | 5.4 | 166 | 255 | 4.7 | 1660 | 3630 | 92 | 300 | 3.1 | 2200 | 4470 | 284 |
| A 30 2_6.4 | 6.4 | 140 | 270 | 4.2 | 1630 | 3830 | 78 | 300 | 2.6 | 2200 | 4830 | |
| A 30 2_7.0 | 7.0 | 128 | 284 | 4.1 | 1650 | 3920 | 71 | 300 | 2.4 | 2200 | 5040 | |
| A 30 2_8.5 | 8.5 | 106 | 290 | 3.4 | 1810 | 4240 | 59 | 300 | 2.0 | 2200 | 5470 | |
| A 30 2_9.3 | 9.3 | 97 | 300 | 3.2 | 1900 | 4380 | 54 | 300 | 1.8 | 2200 | 5710 | |
| A 30 2_10.5 | 10.5 | 86 | 391 | 3.7 | 2200 | 4130 | 48 | 410 | 2.2 | 2200 | 5400 | |
| A 30 2_11.8 | 11.8 | 76 | 300 | 2.6 | 2200 | 4880 | 42 | 300 | 1.4 | 2200 | 6320 | |
| A 30 2_13.6 | 13.6 | 66 | 410 | 3.0 | 2200 | 4600 | 37 | 410 | 1.7 | 2200 | 6110 | |
| A 30 2_16.3 | 16.3 | 55 | 410 | 2.5 | 2200 | 5044 | 31 | 410 | 1.4 | 2200 | 6650 | |
| A 30 2_18.0 | 18.0 | 50 | 410 | 2.3 | 2200 | 5280 | 27.8 | 410 | 1.3 | 2200 | 6940 | |
| A 30 2_20.5 | 20.5 | 44 | 410 | 2.0 | 2200 | 5630 | 24.3 | 410 | 1.1 | 2200 | 7360 | |
| A 30 2_22.8 | 22.8 | 40 | 410 | 1.8 | 2200 | 5910 | 22.0 | 410 | 1.0 | 2200 | 7700 | |
| A 30 2_26.5 | 26.5 | 34 | 410 | 1.5 | 2200 | 6340 | 18.8 | 410 | 0.86 | 2200 | 8230 | |
| A 30 2_29.3 | 29.3 | 31 | 410 | 1.4 | 2200 | 6640 | 17.1 | 410 | 0.78 | 2200 | 8590 | |
| A 30 2_33.4 | 33.4 | 26.9 | 410 | 1.2 | 2200 | 7040 | 15.0 | 410 | 0.68 | 2200 | 9080 | |
| A 30 2_36.6 | 36.6 | 24.6 | 410 | 1.1 | 2200 | 7340 | 13.6 | 410 | 0.62 | 2200 | 9440 | |
| A 30 2_39.3 | 39.3 | 22.9 | 410 | 1.0 | 2200 | 7560 | 12.7 | 410 | 0.58 | 2200 | 9600 | |
| A 30 2_43.4 | 43.4 | 20.7 | 410 | 0.95 | 2200 | 7900 | 11.5 | 410 | 0.53 | 2200 | 9600 | |
| A 30 2_48.3 | 48.3 | 18.6 | 410 | 0.85 | 2200 | 8270 | 10.4 | 410 | 0.47 | 2200 | 9600 | |
| A 30 2_52.7 | 52.7 | 17.1 | 410 | 0.78 | 2200 | 8590 | 9.5 | 410 | 0.43 | 2200 | 9600 | |
| A 30 2_59.4 | 59.4 | 15.1 | 400 | 0.67 | 2200 | 9090 | 8.4 | 400 | 0.37 | 2200 | 9600 | |
| A 30 2_66.0 | 66.0 | 13.6 | 390 | 0.59 | 2200 | 9560 | 7.6 | 390 | 0.33 | 2200 | 9600 | |
| A 30 2_76.5 | 76.5 | 11.8 | 350 | 0.46 | 2200 | 9600 | 6.5 | 350 | 0.25 | 2200 | 9600 | |
| A 30 2_86.7 | 86.7 | 10.4 | 320 | 0.37 | 2200 | 9600 | 5.8 | 320 | 0.21 | 2200 | 9600 | |
| A 30 2_97.5 | 97.5 | 9.2 | 300 | 0.31 | 2200 | 9600 | 5.1 | 300 | 0.17 | 2200 | 9600 | |
| A 30 3_109.1 | 109.1 | 8.3 | 350 | 0.33 | 1300 | 9600 | 4.6 | 370 | 0.20 | 1300 | 9600 | |
| A 30 3_120.5 | 120.5 | 7.5 | 354 | 0.30 | 1300 | 9600 | 4.2 | 410 | 0.20 | 1300 | 9600 | |
| A 30 3_137.4 | 137.4 | 6.5 | 370 | 0.28 | 1300 | 9600 | 3.6 | 410 | 0.17 | 1300 | 9600 | |
| A 30 3_150.7 | 150.7 | 6.0 | 381 | 0.26 | 1300 | 9600 | 3.3 | 410 | 0.16 | 1300 | 9600 | |
| A 30 3_161.4 | 161.4 | 5.6 | 390 | 0.25 | 1300 | 9600 | 3.1 | 410 | 0.15 | 1300 | 9600 | |
| A 30 3_178.5 | 178.5 | 5.0 | 400 | 0.23 | 1300 | 9600 | 2.8 | 410 | 0.13 | 1300 | 9600 | |
| A 30 3_198.5 | 198.5 | 4.5 | 410 | 0.21 | 1300 | 9600 | 2.5 | 410 | 0.12 | 1300 | 9600 | |
| A 30 3_216.6 | 216.6 | 4.2 | 410 | 0.20 | 1300 | 9600 | 2.3 | 410 | 0.11 | 1300 | 9600 | |
| A 30 3_244.3 | 244.3 | 3.7 | 410 | 0.17 | 1300 | 9600 | 2.0 | 410 | 0.10 | 1300 | 9600 | |
| A 30 3_271.5 | 271.5 | 3.3 | 410 | 0.16 | 1300 | 9600 | 1.8 | 410 | 0.09 | 1300 | 9600 | |
| A 30 3_314.5 | 314.5 | 2.9 | 410 | 0.13 | 1300 | 9600 | 1.6 | 410 | 0.07 | 1300 | 9600 | |
| A 30 3_356.3 | 356.3 | 2.5 | 380 | 0.11 | 1300 | 9600 | 1.4 | 380 | 0.06 | 1300 | 9600 | |
| A 30 3_400.8 | 400.8 | 2.2 | 360 | 0.09 | 1300 | 9600 | 1.2 | 360 | 0.05 | 1300 | 9600 | |



A 35

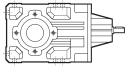

600 Nm

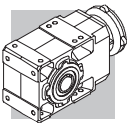
|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 35 2_5.4 | 5.4 | 517 | 246 | 14.2 | 1420 | 4000 | 259 | 310 | 8.9 | 1790 | 5050 | 289 |
| A 35 2_6.4 | 6.4 | 437 | 262 | 12.7 | 1420 | 4230 | 218 | 330 | 8.0 | 1790 | 5330 | |
| A 35 2_7.0 | 7.0 | 399 | 278 | 12.3 | 1410 | 4320 | 199 | 350 | 7.8 | 1790 | 5440 | |
| A 35 2_8.5 | 8.5 | 331 | 286 | 10.5 | 1450 | 4650 | 165 | 360 | 6.6 | 1830 | 5850 | |
| A 35 2_9.3 | 9.3 | 301 | 302 | 10.1 | 1450 | 4760 | 150 | 380 | 6.4 | 1830 | 6000 | |
| A 35 2_10.6 | 10.6 | 263 | 310 | 9.1 | 1440 | 5010 | 132 | 390 | 5.7 | 1830 | 6310 | |
| A 35 2_11.8 | 11.8 | 238 | 317 | 8.4 | 1480 | 5200 | 119 | 400 | 5.3 | 1860 | 6550 | |
| A 35 2_13.1 | 13.1 | 214 | 400 | 10.9 | 1630 | 4470 | 107 | 550 | 6.6 | 2100 | 5780 | |
| A 35 2_15.5 | 15.5 | 181 | 430 | 10.0 | 1620 | 4670 | 90 | 570 | 5.7 | 2120 | 6190 | |
| A 35 2_17.0 | 17.0 | 165 | 465 | 9.7 | 1620 | 4730 | 83 | 600 | 5.5 | 2130 | 6310 | |
| A 35 2_20.4 | 20.4 | 137 | 500 | 8.4 | 1630 | 5080 | 69 | 600 | 4.6 | 2170 | 6930 | |
| A 35 2_22.5 | 22.5 | 125 | 540 | 7.8 | 1660 | 5290 | 62 | 600 | 4.2 | 2200 | 7260 | |
| A 35 2_25.7 | 25.7 | 109 | 585 | 7.1 | 1640 | 5540 | 55 | 600 | 3.6 | 2200 | 7740 | |
| A 35 2_28.4 | 28.4 | 98 | 600 | 6.6 | 1660 | 5760 | 49 | 600 | 3.3 | 2200 | 8130 | |
| A 35 2_33.2 | 33.2 | 84 | 600 | 5.6 | 910 | 6240 | 42 | 600 | 2.8 | 2200 | 8730 | |
| A 35 2_36.6 | 36.6 | 76 | 600 | 5.1 | 1080 | 6560 | 38 | 600 | 2.6 | 2200 | 9140 | |
| A 35 2_41.8 | 41.8 | 67 | 600 | 4.5 | 1140 | 7010 | 34 | 600 | 2.2 | 2200 | 9700 | |
| A 35 2_45.8 | 45.8 | 61 | 600 | 4.1 | 1260 | 7330 | 31 | 600 | 2.0 | 2200 | 10100 | |
| A 35 2_49.1 | 49.1 | 57 | 600 | 3.8 | 1260 | 7580 | 28.5 | 600 | 1.9 | 2200 | 10400 | |
| A 35 2_54.3 | 54.3 | 52 | 600 | 3.4 | 1360 | 7950 | 25.8 | 600 | 1.7 | 2200 | 10900 | |
| A 35 2_60.4 | 60.4 | 46 | 600 | 3.1 | 1470 | 8360 | 23.2 | 600 | 1.6 | 2200 | 11400 | |
| A 35 2_65.8 | 65.8 | 43 | 600 | 2.8 | 1470 | 8700 | 21.3 | 600 | 1.4 | 2200 | 11800 | |
| A 35 2_74.3 | 74.3 | 38 | 600 | 2.5 | 1560 | 9200 | 18.8 | 600 | 1.3 | 2200 | 12000 | |
| A 35 2_82.5 | 82.5 | 34 | 600 | 2.3 | 1560 | 9650 | 17.0 | 600 | 1.1 | 2200 | 12000 | |
| A 35 2_95.6 | 95.6 | 29.3 | 540 | 1.8 | 1860 | 10600 | 14.6 | 540 | 0.88 | 2200 | 12000 | |
| A 35 3_105.5 | 105.5 | 26.5 | 430 | 1.3 | 550 | 12000 | 13.3 | 525 | 0.80 | 780 | 12000 | |
| A 35 3_116.9 | 116.9 | 24.0 | 455 | 1.3 | 650 | 12000 | 12.0 | 560 | 0.77 | 870 | 12000 | |
| A 35 3_136.3 | 136.3 | 20.5 | 470 | 1.1 | 870 | 12000 | 10.3 | 575 | 0.68 | 1110 | 12000 | |
| A 35 3_150.6 | 150.6 | 18.6 | 495 | 1.1 | 900 | 12000 | 9.3 | 600 | 0.64 | 1160 | 12000 | |
| A 35 3_171.8 | 171.8 | 16.3 | 505 | 0.95 | 960 | 12000 | 8.1 | 600 | 0.56 | 1250 | 12000 | |
| A 35 3_188.3 | 188.3 | 14.9 | 525 | 0.90 | 990 | 12000 | 7.4 | 600 | 0.51 | 1300 | 12000 | |
| A 35 3_201.8 | 201.8 | 13.9 | 525 | 0.84 | 1020 | 12000 | 6.9 | 600 | 0.48 | 1300 | 12000 | |
| A 35 3_223.2 | 223.2 | 12.5 | 545 | 0.79 | 1050 | 12000 | 6.3 | 600 | 0.43 | 1300 | 12000 | |
| A 35 3_248.1 | 248.1 | 11.3 | 565 | 0.73 | 1080 | 12000 | 5.6 | 600 | 0.39 | 1300 | 12000 | |
| A 35 3_270.7 | 270.7 | 10.3 | 570 | 0.68 | 1110 | 12000 | 5.2 | 600 | 0.36 | 1300 | 12000 | |
| A 35 3_305.4 | 305.4 | 9.2 | 585 | 0.62 | 1140 | 12000 | 4.6 | 600 | 0.32 | 1300 | 12000 | |
| A 35 3_339.3 | 339.3 | 8.3 | 520 | 0.49 | 1210 | 12000 | 4.1 | 520 | 0.25 | 1300 | 12000 | |
| A 35 3_393.2 | 393.2 | 7.1 | 465 | 0.38 | 1260 | 12000 | 3.6 | 465 | 0.19 | 1300 | 12000 | |



A 35

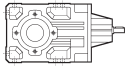

600 Nm

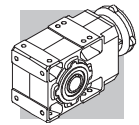
|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 35 2_5.4 | 5.4 | 166 | 340 | 6.3 | 2150 | 5940 | 92 | 340 | 3.5 | 2200 | 7600 | 289 |
| A 35 2_6.4 | 6.4 | 140 | 350 | 5.5 | 2190 | 6340 | 78 | 350 | 3.0 | 2200 | 8090 | |
| A 35 2_7.0 | 7.0 | 128 | 370 | 5.3 | 2200 | 6490 | 71 | 370 | 2.9 | 2200 | 8290 | |
| A 35 2_8.5 | 8.5 | 106 | 380 | 4.5 | 2200 | 6970 | 59 | 380 | 2.5 | 2200 | 8890 | |
| A 35 2_9.3 | 9.3 | 97 | 400 | 4.3 | 2200 | 7160 | 54 | 400 | 2.4 | 2200 | 9140 | |
| A 35 2_10.6 | 10.6 | 85 | 400 | 3.8 | 2200 | 7570 | 47 | 400 | 2.1 | 2200 | 9650 | |
| A 35 2_11.8 | 11.8 | 76 | 400 | 3.4 | 2200 | 7910 | 42 | 400 | 1.9 | 2200 | 10100 | |
| A 35 2_13.1 | 13.1 | 69 | 600 | 4.6 | 2200 | 6910 | 38 | 600 | 2.6 | 2200 | 9140 | |
| A 35 2_15.5 | 15.5 | 58 | 600 | 3.9 | 2090 | 7510 | 32 | 600 | 2.2 | 2200 | 9860 | |
| A 35 2_17.0 | 17.0 | 53 | 600 | 3.5 | 2200 | 7840 | 29.5 | 600 | 2.0 | 2200 | 10300 | |
| A 35 2_20.4 | 20.4 | 44 | 600 | 2.9 | 2200 | 8560 | 24.5 | 600 | 1.6 | 2200 | 11100 | |
| A 35 2_22.5 | 22.5 | 40 | 600 | 2.7 | 2200 | 8950 | 22.2 | 600 | 1.5 | 2200 | 11600 | |
| A 35 2_25.7 | 25.7 | 35 | 600 | 2.3 | 2200 | 9500 | 19.5 | 600 | 1.3 | 2200 | 12000 | |
| A 35 2_28.4 | 28.4 | 32 | 600 | 2.1 | 2200 | 9950 | 17.6 | 600 | 1.2 | 2200 | 12000 | |
| A 35 2_33.2 | 33.2 | 27.1 | 600 | 1.8 | 2200 | 10700 | 15.1 | 600 | 1.0 | 2200 | 12000 | |
| A 35 2_36.6 | 36.6 | 24.6 | 600 | 1.6 | 2200 | 11100 | 13.7 | 600 | 0.91 | 2200 | 12000 | |
| A 35 2_41.8 | 41.8 | 21.5 | 600 | 1.4 | 2200 | 11800 | 12.0 | 600 | 0.80 | 2200 | 12000 | |
| A 35 2_45.8 | 45.8 | 19.6 | 600 | 1.3 | 2200 | 12000 | 10.9 | 600 | 0.73 | 2200 | 12000 | |
| A 35 2_49.1 | 49.1 | 18.3 | 600 | 1.2 | 2200 | 12000 | 10.2 | 600 | 0.68 | 2200 | 12000 | |
| A 35 2_54.3 | 54.3 | 16.6 | 600 | 1.1 | 2200 | 12000 | 9.2 | 600 | 0.62 | 2200 | 12000 | |
| A 35 2_60.4 | 60.4 | 14.9 | 600 | 1.0 | 2200 | 12000 | 8.3 | 600 | 0.55 | 2200 | 12000 | |
| A 35 2_65.8 | 65.8 | 13.7 | 600 | 0.91 | 2200 | 12000 | 7.6 | 600 | 0.51 | 2200 | 12000 | |
| A 35 2_74.3 | 74.3 | 12.1 | 600 | 0.81 | 2200 | 12000 | 6.7 | 600 | 0.45 | 2200 | 12000 | |
| A 35 2_82.5 | 82.5 | 10.9 | 600 | 0.73 | 2200 | 12000 | 6.1 | 600 | 0.40 | 2200 | 12000 | |
| A 35 2_95.6 | 95.6 | 9.4 | 540 | 0.57 | 2200 | 12000 | 5.2 | 540 | 0.31 | 2200 | 12000 | |
| A 35 3_105.5 | 105.5 | 8.5 | 600 | 0.59 | 940 | 12000 | 4.7 | 600 | 0.33 | 1300 | 12000 | |
| A 35 3_116.9 | 116.9 | 7.7 | 600 | 0.53 | 1230 | 12000 | 4.3 | 600 | 0.30 | 1300 | 12000 | |
| A 35 3_136.3 | 136.3 | 6.6 | 600 | 0.46 | 1300 | 12000 | 3.7 | 600 | 0.25 | 1300 | 12000 | |
| A 35 3_150.6 | 150.6 | 6.0 | 600 | 0.41 | 1300 | 12000 | 3.3 | 600 | 0.23 | 1300 | 12000 | |
| A 35 3_171.8 | 171.8 | 5.2 | 600 | 0.36 | 1300 | 12000 | 2.9 | 600 | 0.20 | 1300 | 12000 | |
| A 35 3_188.3 | 188.3 | 4.8 | 600 | 0.33 | 1300 | 12000 | 2.7 | 600 | 0.18 | 1300 | 12000 | |
| A 35 3_201.8 | 201.8 | 4.5 | 600 | 0.31 | 1300 | 12000 | 2.5 | 600 | 0.17 | 1300 | 12000 | |
| A 35 3_223.2 | 223.2 | 4.0 | 600 | 0.28 | 1300 | 12000 | 2.2 | 600 | 0.15 | 1300 | 12000 | |
| A 35 3_248.1 | 248.1 | 3.6 | 600 | 0.25 | 1300 | 12000 | 2.0 | 600 | 0.14 | 1300 | 12000 | |
| A 35 3_270.7 | 270.7 | 3.3 | 600 | 0.23 | 1300 | 12000 | 1.8 | 600 | 0.13 | 1300 | 12000 | |
| A 35 3_305.4 | 305.4 | 2.9 | 600 | 0.20 | 1300 | 12000 | 1.6 | 600 | 0.11 | 1300 | 12000 | |
| A 35 3_339.3 | 339.3 | 2.7 | 520 | 0.16 | 1300 | 12000 | 1.5 | 520 | 0.09 | 1300 | 12000 | |
| A 35 3_393.2 | 393.2 | 2.3 | 465 | 0.12 | 1300 | 12000 | 1.3 | 465 | 0.07 | 1300 | 12000 | |



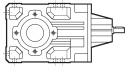

A 41

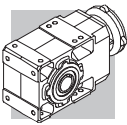
850 Nm

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 41 2_5.2 | 5.2 | 534 | 450 | 27 | 1790 | 4350 | 267 | 550 | 16.4 | 2450 | 5560 | 293 |
| A 41 2_7.1 | 7.1 | 393 | 490 | 22 | 1890 | 4850 | 197 | 550 | 12.0 | 2670 | 6430 | |
| A 41 2_8.3 | 8.3 | 336 | 510 | 19.1 | 1900 | 5140 | 168 | 550 | 10.3 | 2750 | 6920 | |
| A 41 2_9.2 | 9.2 | 304 | 530 | 18.0 | 1980 | 5300 | 152 | 550 | 9.3 | 2860 | 7240 | |
| A 41 2_10.1 | 10.1 | 276 | 435 | 13.4 | 2680 | 6030 | 138 | 535 | 8.2 | 3390 | 7650 | |
| A 41 2_11.7 | 11.7 | 238 | 550 | 14.6 | 2050 | 5870 | 119 | 550 | 7.3 | 2950 | 8070 | |
| A 41 2_13.8 | 13.8 | 204 | 480 | 10.9 | 2690 | 6680 | 102 | 585 | 6.6 | 3430 | 8510 | |
| A 41 2_16.1 | 16.1 | 174 | 500 | 9.7 | 2700 | 7070 | 87 | 610 | 5.9 | 3430 | 9000 | |
| A 41 2_17.8 | 17.8 | 158 | 515 | 9.0 | 2730 | 7310 | 79 | 630 | 5.5 | 3470 | 9300 | |
| A 41 2_22.7 | 22.7 | 123 | 550 | 7.6 | 2730 | 7970 | 62 | 680 | 4.7 | 3460 | 10100 | |
| A 41 2_28.3 | 28.3 | 99 | 595 | 6.6 | 2670 | 8570 | 49 | 730 | 4.0 | 3450 | 10900 | |
| A 41 2_35.9 | 35.9 | 78 | 635 | 5.5 | 2590 | 9320 | 39 | 780 | 3.4 | 3410 | 11800 | |
| A 41 2_45.1 | 45.1 | 62 | 680 | 4.7 | 2500 | 10100 | 31 | 830 | 2.9 | 3330 | 12800 | |
| A 41 2_48.3 | 48.3 | 58 | 690 | 4.5 | 2430 | 10300 | 29.0 | 850 | 2.7 | 3200 | 13100 | |
| A 41 2_53.1 | 53.1 | 53 | 700 | 4.1 | 2470 | 10700 | 26.3 | 850 | 2.5 | 3330 | 13700 | |
| A 41 2_58.8 | 58.8 | 48 | 730 | 3.9 | 2390 | 11100 | 23.8 | 850 | 2.3 | 3460 | 14300 | |
| A 41 2_64.2 | 64.2 | 44 | 740 | 3.6 | 2320 | 11500 | 21.8 | 850 | 2.1 | 3460 | 14800 | |
| A 41 2_71.3 | 71.3 | 39 | 780 | 3.4 | 2120 | 11800 | 19.6 | 850 | 1.9 | 3470 | 15000 | |
| A 41 2_79.2 | 79.2 | 35 | 800 | 3.1 | 1990 | 12300 | 17.7 | 800 | 1.6 | 3500 | 15000 | |
| A 41 3_92.8 | 92.8 | 30 | 650 | 2.3 | 270 | 14000 | 15.1 | 800 | 1.4 | 430 | 15000 | |
| A 41 3_115.9 | 115.9 | 24.2 | 800 | 2.2 | 310 | 14600 | 12.1 | 850 | 1.2 | 980 | 15000 | |
| A 41 3_146.9 | 146.9 | 19.1 | 850 | 1.9 | 790 | 15000 | 9.5 | 850 | 0.93 | 1640 | 15000 | |
| A 41 3_184.4 | 184.4 | 15.2 | 850 | 1.5 | 1290 | 15000 | 7.6 | 850 | 0.74 | 1770 | 15000 | |
| A 41 3_197.5 | 197.5 | 14.2 | 850 | 1.4 | 1360 | 15000 | 7.1 | 850 | 0.69 | 1790 | 15000 | |
| A 41 3_217.4 | 217.4 | 12.9 | 850 | 1.3 | 1390 | 15000 | 6.4 | 850 | 0.63 | 1820 | 15000 | |
| A 41 3_240.6 | 240.6 | 11.6 | 850 | 1.1 | 1410 | 15000 | 5.8 | 850 | 0.57 | 1840 | 15000 | |
| A 41 3_262.5 | 262.5 | 10.7 | 850 | 1.0 | 1430 | 15000 | 5.3 | 850 | 0.52 | 1860 | 15000 | |
| A 41 3_291.7 | 291.7 | 9.6 | 850 | 0.94 | 1450 | 15000 | 4.8 | 850 | 0.47 | 1880 | 15000 | |
| A 41 3_324.2 | 324.2 | 8.6 | 850 | 0.84 | 1470 | 15000 | 4.3 | 850 | 0.42 | 1900 | 15000 | |
| A 41 3_376.8 | 376.8 | 7.4 | 850 | 0.73 | 1500 | 15000 | 3.7 | 850 | 0.36 | 1930 | 15000 | |

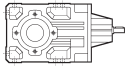



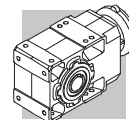
A 41 850 Nm

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 41 2_5.2 | 5.2 | 172 | 550 | 10.5 | 3140 | 6850 | 95 | 550 | 5.8 | 3500 | 8900 | 293 |
| A 41 2_7.1 | 7.1 | 126 | 550 | 7.7 | 3360 | 7870 | 70 | 550 | 4.3 | 3500 | 10100 | |
| A 41 2_8.3 | 8.3 | 108 | 550 | 6.6 | 3440 | 8430 | 60 | 550 | 3.7 | 3500 | 10800 | |
| A 41 2_9.2 | 9.2 | 98 | 550 | 6.0 | 3500 | 8800 | 54 | 550 | 3.3 | 3500 | 11300 | |
| A 41 2_10.1 | 10.1 | 89 | 610 | 6.0 | 3500 | 8920 | 49 | 730 | 4.0 | 3500 | 10900 | |
| A 41 2_11.7 | 11.7 | 77 | 550 | 4.7 | 3500 | 9760 | 43 | 550 | 2.6 | 3500 | 12400 | |
| A 41 2_13.8 | 13.8 | 65 | 670 | 4.9 | 3500 | 9900 | 36 | 800 | 3.2 | 3500 | 12100 | |
| A 41 2_16.1 | 16.1 | 56 | 700 | 4.4 | 3500 | 10500 | 31 | 830 | 2.9 | 3500 | 12800 | |
| A 41 2_17.8 | 17.8 | 51 | 720 | 4.1 | 3500 | 10800 | 28.1 | 850 | 2.7 | 3500 | 13300 | |
| A 41 2_22.7 | 22.7 | 40 | 780 | 3.4 | 3500 | 11700 | 22.0 | 850 | 2.1 | 3500 | 14800 | |
| A 41 2_28.3 | 28.3 | 32 | 830 | 2.9 | 3500 | 12700 | 17.7 | 850 | 1.7 | 3500 | 15000 | |
| A 41 2_35.9 | 35.9 | 25.1 | 850 | 2.4 | 3500 | 14000 | 13.9 | 850 | 1.3 | 3500 | 15000 | |
| A 41 2_45.1 | 45.1 | 20.0 | 850 | 1.9 | 3500 | 15000 | 11.1 | 850 | 1.1 | 3500 | 15000 | |
| A 41 2_48.3 | 48.3 | 18.6 | 850 | 1.8 | 3500 | 15000 | 10.4 | 850 | 0.98 | 3500 | 15000 | |
| A 41 2_53.1 | 53.1 | 16.9 | 850 | 1.6 | 3500 | 15000 | 9.4 | 850 | 0.89 | 3500 | 15000 | |
| A 41 2_58.8 | 58.8 | 15.3 | 850 | 1.4 | 3500 | 15000 | 8.5 | 850 | 0.81 | 3500 | 15000 | |
| A 41 2_64.2 | 64.2 | 14.0 | 850 | 1.3 | 3300 | 15000 | 7.8 | 850 | 0.74 | 3500 | 15000 | |
| A 41 2_71.3 | 71.3 | 12.6 | 850 | 1.2 | 3500 | 15000 | 7.0 | 850 | 0.66 | 3500 | 15000 | |
| A 41 2_79.2 | 79.2 | 11.4 | 800 | 1.0 | 3500 | 15000 | 6.3 | 800 | 0.56 | 3500 | 15000 | |
| A 41 3_92.8 | 92.8 | 9.7 | 800 | 0.89 | 1080 | 15000 | 5.4 | 800 | 0.50 | 2110 | 15000 | |
| A 41 3_115.9 | 115.9 | 7.8 | 850 | 0.76 | 1630 | 15000 | 4.3 | 850 | 0.42 | 2200 | 15000 | |
| A 41 3_146.9 | 146.9 | 6.1 | 850 | 0.60 | 2020 | 15000 | 3.4 | 850 | 0.33 | 2200 | 15000 | |
| A 41 3_184.4 | 184.4 | 4.9 | 850 | 0.48 | 2100 | 15000 | 2.7 | 850 | 0.27 | 2200 | 15000 | |
| A 41 3_197.5 | 197.5 | 4.6 | 850 | 0.45 | 2120 | 15000 | 2.5 | 850 | 0.25 | 2200 | 15000 | |
| A 41 3_217.4 | 217.4 | 4.1 | 850 | 0.40 | 2150 | 15000 | 2.3 | 850 | 0.22 | 2200 | 15000 | |
| A 41 3_240.6 | 240.6 | 3.7 | 850 | 0.37 | 2170 | 15000 | 2.1 | 850 | 0.20 | 2200 | 15000 | |
| A 41 3_262.5 | 262.5 | 3.4 | 850 | 0.34 | 2190 | 15000 | 1.9 | 850 | 0.19 | 2200 | 15000 | |
| A 41 3_291.7 | 291.7 | 3.1 | 850 | 0.30 | 2200 | 15000 | 1.7 | 850 | 0.17 | 2200 | 15000 | |
| A 41 3_324.2 | 324.2 | 2.8 | 850 | 0.27 | 2200 | 15000 | 1.5 | 850 | 0.15 | 2200 | 15000 | |
| A 41 3_376.8 | 376.8 | 2.4 | 850 | 0.23 | 2200 | 15000 | 1.3 | 850 | 0.13 | 2200 | 15000 | |

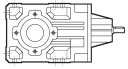



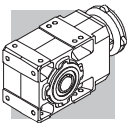
A 50 1500 Nm

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  | |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|--|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | | |
| A 50 2_7.7 | 7.7 | 362 | 550 | 22 | 2300 | 7920 | 181 | 700 | 14.1 | 2890 | 9960 | 297 | |
| A 50 2_9.7 | 9.7 | 288 | 600 | 19.2 | 2330 | 8530 | 144 | 750 | 12.0 | 2950 | 10800 | | |
| A 50 2_13.1 | 13.1 | 214 | 600 | 14.3 | 2460 | 9600 | 107 | 750 | 8.9 | 3110 | 12100 | | |
| A 50 2_16.6 | 16.6 | 169 | 640 | 12.0 | 2490 | 10400 | 84 | 800 | 7.5 | 3150 | 13100 | | |
| A 50 2_20.9 | 20.9 | 134 | 640 | 9.5 | 2540 | 11400 | 67 | 800 | 6.0 | 3210 | 14400 | | |
| | | | | | | | | | | | | | |
| A 50 3_24.0 | 24.0 | 116 | 1150 | 15.4 | 1850 | 7020 | 58 | 1500 | 10.0 | 2100 | 8540 | | |
| A 50 3_26.4 | 26.4 | 106 | 1200 | 14.6 | 2100 | 7170 | 53 | 1500 | 9.1 | 2690 | 9100 | | |
| A 50 3_32.4 | 32.4 | 86 | 1290 | 12.8 | 1800 | 4630 | 43 | 1500 | 7.5 | 2760 | 10400 | | |
| A 50 3_35.6 | 35.6 | 79 | 1340 | 12.1 | 2080 | 7830 | 39 | 1500 | 6.8 | 3290 | 11000 | | |
| A 50 3_40.9 | 40.9 | 68 | 1415 | 11.1 | 1740 | 8130 | 34 | 1500 | 5.9 | 3220 | 11900 | | |
| A 50 3_45.0 | 45.0 | 62 | 1470 | 10.5 | 2030 | 8340 | 31 | 1500 | 5.4 | 3440 | 12600 | | |
| A 50 3_51.7 | 51.7 | 54 | 1500 | 9.4 | 1680 | 8970 | 27.1 | 1500 | 4.7 | 3400 | 13600 | | |
| A 50 3_56.8 | 56.8 | 49 | 1500 | 8.5 | 2150 | 9540 | 24.6 | 1500 | 4.3 | 3480 | 14400 | | |
| A 50 3_63.9 | 63.9 | 44 | 1500 | 7.6 | 1900 | 10300 | 21.9 | 1500 | 3.8 | 3450 | 15300 | | |
| A 50 3_70.2 | 70.2 | 40 | 1500 | 6.9 | 2350 | 10900 | 19.9 | 1500 | 3.4 | 3500 | 16100 | | |
| A 50 3_81.5 | 81.5 | 34 | 1500 | 5.9 | 2170 | 11900 | 17.2 | 1500 | 3.0 | 3500 | 17300 | | |
| A 50 3_89.5 | 89.5 | 31 | 1500 | 5.4 | 2590 | 12600 | 15.6 | 1500 | 2.7 | 3500 | 18200 | | |
| A 50 3_99.5 | 99.5 | 28.1 | 1500 | 4.9 | 2260 | 13400 | 14.1 | 1500 | 2.4 | 3500 | 19200 | | |
| A 50 3_109.4 | 109.4 | 25.6 | 1500 | 4.4 | 2680 | 14100 | 12.8 | 1500 | 2.2 | 3500 | 20000 | | |
| A 50 3_118.0 | 118.0 | 23.7 | 1500 | 4.1 | 2390 | 14700 | 11.9 | 1500 | 2.0 | 3500 | 20000 | | |
| A 50 3_129.7 | 129.7 | 21.6 | 1500 | 3.7 | 2720 | 15400 | 10.8 | 1500 | 1.9 | 3500 | 20000 | | |
| A 50 3_140.6 | 140.6 | 19.9 | 1500 | 3.4 | 2440 | 16100 | 10.0 | 1500 | 1.7 | 3500 | 20000 | | |
| A 50 3_154.6 | 154.6 | 18.1 | 1500 | 3.1 | 2730 | 16900 | 9.1 | 1500 | 1.6 | 3500 | 20000 | | |
| A 50 3_173.4 | 173.4 | 16.2 | 1500 | 2.8 | 2480 | 17900 | 8.1 | 1500 | 1.4 | 3500 | 20000 | | |
| A 50 3_190.6 | 190.6 | 14.7 | 1500 | 2.5 | 2740 | 18800 | 7.3 | 1500 | 1.3 | 3500 | 20000 | | |
| | | | | | | | | | | | | | |
| A 50 4_211.0 | 211.0 | 13.3 | 1500 | 2.3 | 1930 | 20000 | 6.6 | 1500 | 1.2 | 2200 | 20000 | | |
| A 50 4_232.0 | 232.0 | 12.1 | 1500 | 2.1 | 1970 | 20000 | 6.0 | 1500 | 1.1 | 2200 | 20000 | | |
| A 50 4_260.9 | 260.9 | 10.7 | 1500 | 1.9 | 2010 | 20000 | 5.4 | 1500 | 0.95 | 2200 | 20000 | | |
| A 50 4_286.8 | 286.8 | 9.8 | 1500 | 1.7 | 2040 | 20000 | 4.9 | 1500 | 0.86 | 2200 | 20000 | | |
| A 50 4_332.6 | 332.6 | 8.4 | 1500 | 1.5 | 2080 | 20000 | 4.2 | 1500 | 0.74 | 2200 | 20000 | | |
| A 50 4_365.6 | 365.6 | 7.7 | 1500 | 1.4 | 2100 | 20000 | 3.8 | 1500 | 0.68 | 2200 | 20000 | | |
| A 50 4_406.4 | 406.4 | 6.9 | 1500 | 1.2 | 2130 | 20000 | 3.4 | 1500 | 0.61 | 2200 | 20000 | | |
| A 50 4_446.8 | 446.8 | 6.3 | 1500 | 1.1 | 2140 | 20000 | 3.1 | 1500 | 0.55 | 2200 | 20000 | | |
| A 50 4_481.6 | 481.6 | 5.8 | 1500 | 1.0 | 2160 | 20000 | 2.9 | 1500 | 0.51 | 2200 | 20000 | | |
| A 50 4_529.5 | 529.5 | 5.3 | 1500 | 0.93 | 2170 | 20000 | 2.6 | 1500 | 0.47 | 2200 | 20000 | | |
| A 50 4_574.2 | 574.2 | 4.9 | 1500 | 0.86 | 2190 | 20000 | 2.4 | 1500 | 0.43 | 2200 | 20000 | | |
| A 50 4_631.2 | 631.2 | 4.4 | 1500 | 0.78 | 2200 | 20000 | 2.2 | 1500 | 0.39 | 2200 | 20000 | | |
| A 50 4_707.9 | 707.9 | 4.0 | 1500 | 0.70 | 2200 | 20000 | 2.0 | 1500 | 0.35 | 2200 | 20000 | | |
| A 50 4_778.2 | 778.2 | 3.6 | 1500 | 0.63 | 2200 | 20000 | 1.8 | 1500 | 0.32 | 2200 | 20000 | | |



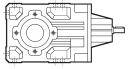

A 50 1500 Nm

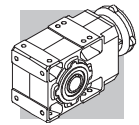
|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 50 2_7.7 | 7.7 | 116 | 770 | 10.0 | 3430 | 11700 | 65 | 900 | 6.5 | 3500 | 14300 | 297 |
| A 50 2_9.7 | 9.7 | 92 | 830 | 8.5 | 3490 | 12600 | 51 | 1000 | 5.7 | 3500 | 15300 | |
| A 50 2_13.1 | 13.1 | 69 | 830 | 6.3 | 3500 | 14200 | 38 | 1000 | 4.2 | 3500 | 17300 | |
| A 50 2_16.6 | 16.6 | 54 | 880 | 5.3 | 3500 | 15400 | 30 | 1000 | 3.4 | 3500 | 18900 | |
| A 50 2_20.9 | 20.9 | 43 | 880 | 4.2 | 3500 | 16800 | 23.9 | 1000 | 2.7 | 3500 | 20000 | |
| A 50 3_24.0 | 24.0 | 37 | 1500 | 6.5 | 3480 | 11300 | 20.8 | 1500 | 3.6 | 3500 | 15700 | |
| A 50 3_26.4 | 26.4 | 34 | 1500 | 5.9 | 3500 | 12000 | 18.9 | 1500 | 3.3 | 3500 | 16500 | |
| A 50 3_32.4 | 32.4 | 27.8 | 1500 | 4.8 | 3500 | 13400 | 15.4 | 1500 | 2.7 | 3500 | 18300 | |
| A 50 3_35.6 | 35.6 | 25.3 | 1500 | 4.4 | 3500 | 14200 | 14.0 | 1500 | 2.4 | 3500 | 19200 | |
| A 50 3_40.9 | 40.9 | 22.0 | 1500 | 3.8 | 3500 | 15300 | 12.2 | 1500 | 2.1 | 3500 | 20000 | |
| A 50 3_45.0 | 45.0 | 20.0 | 1500 | 3.5 | 3500 | 16000 | 11.1 | 1500 | 1.9 | 3500 | 20000 | |
| A 50 3_51.7 | 51.7 | 17.4 | 1500 | 3.0 | 3450 | 17200 | 9.7 | 1500 | 1.7 | 3500 | 20000 | |
| A 50 3_56.8 | 56.8 | 15.8 | 1500 | 2.7 | 3500 | 18100 | 8.8 | 1500 | 1.5 | 3500 | 20000 | |
| A 50 3_63.9 | 63.9 | 14.1 | 1500 | 2.4 | 3500 | 19200 | 7.8 | 1500 | 1.4 | 3500 | 20000 | |
| A 50 3_70.2 | 70.2 | 12.8 | 1500 | 2.2 | 3500 | 20000 | 7.1 | 1500 | 1.2 | 3500 | 20000 | |
| A 50 3_81.5 | 81.5 | 11.0 | 1500 | 1.9 | 3500 | 20000 | 6.1 | 1500 | 1.1 | 3500 | 20000 | |
| A 50 3_89.5 | 89.5 | 10.1 | 1500 | 1.7 | 3500 | 20000 | 5.6 | 1500 | 0.96 | 3500 | 20000 | |
| A 50 3_99.5 | 99.5 | 9.0 | 1500 | 1.6 | 3500 | 20000 | 5.0 | 1500 | 0.87 | 3500 | 20000 | |
| A 50 3_109.4 | 109.4 | 8.2 | 1500 | 1.4 | 3500 | 20000 | 4.6 | 1500 | 0.79 | 3500 | 20000 | |
| A 50 3_118.0 | 118.0 | 7.6 | 1500 | 1.3 | 3500 | 20000 | 4.2 | 1500 | 0.73 | 3500 | 20000 | |
| A 50 3_129.7 | 129.7 | 6.9 | 1500 | 1.2 | 3500 | 20000 | 3.9 | 1500 | 0.67 | 3500 | 20000 | |
| A 50 3_140.6 | 140.6 | 6.4 | 1500 | 1.1 | 3500 | 20000 | 3.6 | 1500 | 0.61 | 3500 | 20000 | |
| A 50 3_154.6 | 154.6 | 5.8 | 1500 | 1.0 | 3500 | 20000 | 3.2 | 1500 | 0.56 | 3500 | 20000 | |
| A 50 3_173.4 | 173.4 | 5.2 | 1500 | 0.90 | 3500 | 20000 | 2.9 | 1500 | 0.50 | 3500 | 20000 | |
| A 50 3_190.6 | 190.6 | 4.7 | 1500 | 0.82 | 3500 | 20000 | 2.6 | 1500 | 0.45 | 3500 | 20000 | |
| A 50 4_211.0 | 211.0 | 4.3 | 1500 | 0.75 | 2200 | 20000 | 2.4 | 1500 | 0.42 | 2200 | 20000 | |
| A 50 4_232.0 | 232.0 | 3.9 | 1500 | 0.68 | 2200 | 20000 | 2.2 | 1500 | 0.38 | 2200 | 20000 | |
| A 50 4_260.9 | 260.9 | 3.4 | 1500 | 0.61 | 2200 | 20000 | 1.9 | 1500 | 0.34 | 2200 | 20000 | |
| A 50 4_286.8 | 286.8 | 3.1 | 1500 | 0.55 | 2200 | 20000 | 1.7 | 1500 | 0.31 | 2200 | 20000 | |
| A 50 4_332.6 | 332.6 | 2.7 | 1500 | 0.48 | 2200 | 20000 | 1.5 | 1500 | 0.27 | 2200 | 20000 | |
| A 50 4_365.6 | 365.6 | 2.5 | 1500 | 0.43 | 2200 | 20000 | 1.4 | 1500 | 0.24 | 2200 | 20000 | |
| A 50 4_406.4 | 406.4 | 2.2 | 1500 | 0.39 | 2200 | 20000 | 1.2 | 1500 | 0.22 | 2200 | 20000 | |
| A 50 4_446.8 | 446.8 | 2.0 | 1500 | 0.36 | 2200 | 20000 | 1.1 | 1500 | 0.20 | 2200 | 20000 | |
| A 50 4_481.6 | 481.6 | 1.9 | 1500 | 0.33 | 2200 | 20000 | 1.0 | 1500 | 0.18 | 2200 | 20000 | |
| A 50 4_529.5 | 529.5 | 1.7 | 1500 | 0.30 | 2200 | 20000 | 0.94 | 1500 | 0.17 | 2200 | 20000 | |
| A 50 4_574.2 | 574.2 | 1.6 | 1500 | 0.28 | 2200 | 20000 | 0.87 | 1500 | 0.15 | 2200 | 20000 | |
| A 50 4_631.2 | 631.2 | 1.4 | 1500 | 0.25 | 2200 | 20000 | 0.79 | 1500 | 0.14 | 2200 | 20000 | |
| A 50 4_707.9 | 707.9 | 1.3 | 1500 | 0.22 | 2200 | 20000 | 0.71 | 1500 | 0.12 | 2200 | 20000 | |
| A 50 4_778.2 | 778.2 | 1.2 | 1500 | 0.20 | 2200 | 20000 | 0.64 | 1500 | 0.11 | 2200 | 20000 | |



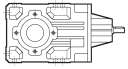

A 55

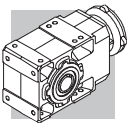
2000 Nm

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 55 2_4.9 | 4.9 | 571 | 760 | 48 | 1320 | 15100 | 286 | 900 | 28 | 2150 | 18700 | 301 |
| A 55 2_6.4 | 6.4 | 438 | 800 | 39 | 1950 | 16400 | 219 | 950 | 23 | 2860 | 20300 | |
| A 55 2_8.5 | 8.5 | 329 | 800 | 30 | 2810 | 18000 | 165 | 950 | 17.5 | 3500 | 22200 | |
| A 55 2_10.4 | 10.4 | 269 | 840 | 25 | 2900 | 19100 | 135 | 1000 | 15.1 | 3500 | 23600 | |
| A 55 2_13.1 | 13.1 | 214 | 840 | 20 | 3230 | 20600 | 107 | 1000 | 11.9 | 3500 | 25500 | |
| A 55 2_15.7 | 15.7 | 178 | 840 | 16.7 | 3440 | 21900 | 89 | 1000 | 9.9 | 3500 | 27000 | |
| A 55 2_19.2 | 19.2 | 146 | 925 | 15.0 | 3160 | 23200 | 73 | 1100 | 8.9 | 3500 | 28600 | |
| A 55 3_23.8 | 23.8 | 118 | 1600 | 22 | 2050 | 21000 | 59 | 1950 | 13.2 | 2640 | 26000 | |
| A 55 3_29.9 | 29.9 | 94 | 1700 | 18.3 | 2110 | 22500 | 47 | 2000 | 10.8 | 2770 | 28200 | |
| A 55 3_40.3 | 40.3 | 69 | 1850 | 14.8 | 2150 | 24800 | 35 | 2000 | 8.0 | 2930 | 30000 | |
| A 55 3_51.0 | 51.0 | 55 | 2000 | 12.6 | 2170 | 26500 | 27.5 | 2000 | 6.3 | 3050 | 30000 | |
| A 55 3_64.3 | 64.3 | 44 | 2000 | 10.0 | 2230 | 29000 | 21.8 | 2000 | 5.0 | 3110 | 30000 | |
| A 55 3_79.5 | 79.5 | 35 | 2000 | 8.1 | 1040 | 30000 | 17.6 | 2000 | 4.1 | 2820 | 30000 | |
| A 55 3_101.4 | 101.4 | 27.6 | 2000 | 6.4 | 1340 | 30000 | 13.8 | 2000 | 3.2 | 3130 | 30000 | |
| A 55 3_123.9 | 123.9 | 22.6 | 2000 | 5.2 | 1450 | 30000 | 11.3 | 2000 | 2.6 | 3230 | 30000 | |
| A 55 3_132.7 | 132.7 | 21.1 | 2000 | 4.9 | 1450 | 30000 | 10.6 | 2000 | 2.4 | 3240 | 30000 | |
| A 55 3_146.8 | 146.8 | 19.1 | 2000 | 4.4 | 1610 | 30000 | 9.5 | 2000 | 2.2 | 3290 | 30000 | |
| A 55 3_160.4 | 160.4 | 17.5 | 2000 | 4.0 | 1660 | 30000 | 8.7 | 2000 | 2.0 | 3300 | 30000 | |
| A 55 3_175.0 | 175.0 | 16.0 | 2000 | 3.7 | 1660 | 30000 | 8.0 | 2000 | 1.8 | 3300 | 30000 | |
| A 55 3_194.2 | 194.2 | 14.4 | 2000 | 3.3 | 1710 | 30000 | 7.2 | 2000 | 1.7 | 3310 | 30000 | |
| A 55 4_208.1 | 208.1 | 13.5 | 1600 | 2.5 | 1890 | 30000 | 6.7 | 1950 | 1.5 | 2200 | 30000 | |
| A 55 4_262.6 | 262.6 | 10.7 | 1650 | 2.1 | 1980 | 30000 | 5.3 | 2000 | 1.3 | 2200 | 30000 | |
| A 55 4_324.7 | 324.7 | 8.6 | 1750 | 1.8 | 2030 | 30000 | 4.3 | 2000 | 1.0 | 2200 | 30000 | |
| A 55 4_414.0 | 414.0 | 6.8 | 1850 | 1.5 | 2080 | 30000 | 3.4 | 2000 | 0.80 | 2200 | 30000 | |
| A 55 4_505.9 | 505.9 | 5.5 | 1900 | 1.2 | 2120 | 30000 | 2.8 | 2000 | 0.65 | 2200 | 30000 | |
| A 55 4_542.0 | 542.0 | 5.2 | 1900 | 1.2 | 2140 | 30000 | 2.6 | 2000 | 0.61 | 2200 | 30000 | |
| A 55 4_599.5 | 599.5 | 4.7 | 1950 | 1.1 | 2150 | 30000 | 2.3 | 2000 | 0.55 | 2200 | 30000 | |
| A 55 4_655.1 | 655.1 | 4.3 | 1950 | 1.0 | 2180 | 30000 | 2.1 | 2000 | 0.50 | 2200 | 30000 | |
| A 55 4_714.7 | 714.7 | 3.9 | 1950 | 0.90 | 2200 | 30000 | 2.0 | 2000 | 0.46 | 2200 | 30000 | |
| A 55 4_793.0 | 793.0 | 3.5 | 2000 | 0.83 | 2200 | 30000 | 1.8 | 2000 | 0.42 | 2200 | 30000 | |

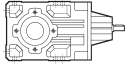



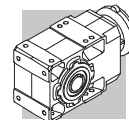
A 55 2000 Nm

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 55 2_4.9 | 4.9 | 184 | 1000 | 20 | 2850 | 21400 | 102 | 1160 | 13.1 | 3500 | 25600 | 301 |
| A 55 2_6.4 | 6.4 | 141 | 1060 | 16.6 | 3500 | 23200 | 78 | 1230 | 10.7 | 3500 | 27700 | |
| A 55 2_8.5 | 8.5 | 106 | 1060 | 12.6 | 3500 | 25400 | 59 | 1230 | 8.1 | 3500 | 30000 | |
| A 55 2_10.4 | 10.4 | 87 | 1120 | 10.8 | 3500 | 27000 | 48 | 1290 | 6.9 | 3500 | 30000 | |
| A 55 2_13.1 | 13.1 | 69 | 1120 | 8.6 | 3500 | 29100 | 38 | 1290 | 5.5 | 3500 | 30000 | |
| A 55 2_15.7 | 15.7 | 57 | 1120 | 7.2 | 3500 | 30000 | 32 | 1290 | 4.6 | 3500 | 30000 | |
| A 55 2_19.2 | 19.2 | 47 | 1230 | 6.4 | 3500 | 30000 | 26.0 | 1420 | 4.1 | 3500 | 30000 | |
| A 55 3_23.8 | 23.8 | 38 | 2000 | 8.7 | 3280 | 30000 | 21.0 | 2000 | 4.8 | 3500 | 30000 | |
| A 55 3_29.9 | 29.9 | 30 | 2000 | 6.9 | 3450 | 30000 | 16.7 | 2000 | 3.8 | 3500 | 30000 | |
| A 55 3_40.3 | 40.3 | 22.3 | 2000 | 5.1 | 3500 | 30000 | 12.4 | 2000 | 2.9 | 3500 | 30000 | |
| A 55 3_51.0 | 51.0 | 17.6 | 2000 | 4.1 | 3500 | 30000 | 9.8 | 2000 | 2.3 | 3500 | 30000 | |
| A 55 3_64.3 | 64.3 | 14.0 | 2000 | 3.2 | 3500 | 30000 | 7.8 | 2000 | 1.8 | 3500 | 30000 | |
| A 55 3_79.5 | 79.5 | 11.3 | 2000 | 2.6 | 3500 | 30000 | 6.3 | 2000 | 1.4 | 3500 | 30000 | |
| A 55 3_101.4 | 101.4 | 8.9 | 2000 | 2.0 | 3500 | 30000 | 4.9 | 2000 | 1.1 | 3500 | 30000 | |
| A 55 3_123.9 | 123.9 | 7.3 | 2000 | 1.7 | 3500 | 30000 | 4.0 | 2000 | 0.93 | 3500 | 30000 | |
| A 55 3_132.7 | 132.7 | 6.8 | 2000 | 1.6 | 3500 | 30000 | 3.8 | 2000 | 0.87 | 3500 | 30000 | |
| A 55 3_146.8 | 146.8 | 6.1 | 2000 | 1.4 | 3500 | 30000 | 3.4 | 2000 | 0.78 | 3500 | 30000 | |
| A 55 3_160.4 | 160.4 | 5.6 | 2000 | 1.3 | 3500 | 30000 | 3.1 | 2000 | 0.72 | 3500 | 30000 | |
| A 55 3_175.0 | 175.0 | 5.1 | 2000 | 1.2 | 3500 | 30000 | 2.9 | 2000 | 0.66 | 3500 | 30000 | |
| A 55 3_194.2 | 194.2 | 4.6 | 2000 | 1.1 | 3500 | 30000 | 2.6 | 2000 | 0.59 | 3500 | 30000 | |
| A 55 4_208.1 | 208.1 | 4.3 | 2000 | 1.0 | 2200 | 30000 | 2.4 | 2000 | 0.57 | 2200 | 30000 | |
| A 55 4_262.6 | 262.6 | 3.4 | 2000 | 0.81 | 2200 | 30000 | 1.9 | 2000 | 0.45 | 2200 | 30000 | |
| A 55 4_324.7 | 324.7 | 2.8 | 2000 | 0.65 | 2200 | 30000 | 1.5 | 2000 | 0.36 | 2200 | 30000 | |
| A 55 4_414.0 | 414.0 | 2.2 | 2000 | 0.51 | 2200 | 30000 | 1.2 | 2000 | 0.28 | 2200 | 30000 | |
| A 55 4_505.9 | 505.9 | 1.8 | 2000 | 0.42 | 2200 | 30000 | 1.0 | 2000 | 0.23 | 2200 | 30000 | |
| A 55 4_542.0 | 542.0 | 1.7 | 2000 | 0.39 | 2200 | 30000 | 0.92 | 2000 | 0.22 | 2200 | 30000 | |
| A 55 4_599.5 | 599.5 | 1.5 | 2000 | 0.35 | 2200 | 30000 | 0.83 | 2000 | 0.20 | 2200 | 30000 | |
| A 55 4_655.1 | 655.1 | 1.4 | 2000 | 0.32 | 2200 | 30000 | 0.76 | 2000 | 0.18 | 2200 | 30000 | |
| A 55 4_714.7 | 714.7 | 1.3 | 2000 | 0.30 | 2200 | 30000 | 0.70 | 2000 | 0.16 | 2200 | 30000 | |
| A 55 4_793.0 | 793.0 | 1.1 | 2000 | 0.27 | 2200 | 30000 | 0.63 | 2000 | 0.15 | 2200 | 30000 | |

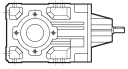



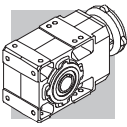
A 60 2800 Nm

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 60 2_7.9 | 7.9 | 356 | 950 | 38 | 2770 | 22500 | 178 | 1200 | 24 | 3400 | 27700 | 305 |
| A 60 2_10.3 | 10.3 | 271 | 950 | 29 | 2970 | 24600 | 136 | 1200 | 18.1 | 3740 | 30000 | |
| A 60 2_12.7 | 12.7 | 220 | 1000 | 25 | 3020 | 26200 | 110 | 1250 | 15.3 | 3810 | 30000 | |
| A 60 2_16.7 | 16.7 | 167 | 1050 | 19.6 | 3080 | 28600 | 84 | 1300 | 12.1 | 3910 | 30000 | |
| A 60 2_20.6 | 20.6 | 136 | 1100 | 16.7 | 3100 | 30000 | 68 | 1400 | 10.6 | 3890 | 30000 | |
| A 60 3_25.7 | 25.7 | 109 | 2760 | 35 | 2380 | 26900 | 54 | 2800 | 17.5 | 3800 | 30000 | |
| A 60 3_27.9 | 27.9 | 101 | 2800 | 32 | 2780 | 27700 | 50 | 2800 | 16.2 | 3930 | 30000 | |
| A 60 3_31.7 | 31.7 | 88 | 2800 | 29 | 2790 | 29000 | 44 | 2800 | 14.2 | 3940 | 30000 | |
| A 60 3_34.3 | 34.3 | 82 | 2800 | 26 | 2920 | 30000 | 41 | 2800 | 13.2 | 4060 | 30000 | |
| A 60 3_41.7 | 41.7 | 67 | 2800 | 22 | 2940 | 30000 | 34 | 2800 | 10.8 | 4090 | 30000 | |
| A 60 3_45.2 | 45.2 | 62 | 2800 | 20 | 3060 | 30000 | 31 | 2800 | 10.0 | 4200 | 30000 | |
| A 60 3_51.3 | 51.3 | 55 | 2800 | 17.6 | 3030 | 30000 | 27.3 | 2800 | 8.8 | 4180 | 30000 | |
| A 60 3_55.6 | 55.6 | 50 | 2800 | 16.2 | 3140 | 30000 | 25.2 | 2800 | 8.1 | 4280 | 30000 | |
| A 60 3_65.0 | 65.0 | 43 | 2800 | 13.9 | 3110 | 30000 | 21.5 | 2800 | 6.9 | 4260 | 30000 | |
| A 60 3_70.4 | 70.4 | 40 | 2800 | 12.8 | 3210 | 30000 | 19.9 | 2800 | 6.4 | 4360 | 30000 | |
| A 60 3_79.7 | 79.7 | 35 | 2800 | 11.3 | 3160 | 30000 | 17.6 | 2800 | 5.7 | 4310 | 30000 | |
| A 60 3_86.4 | 86.4 | 32 | 2800 | 10.4 | 3260 | 30000 | 16.2 | 2800 | 5.2 | 4410 | 30000 | |
| A 60 3_99.5 | 99.5 | 28.1 | 2800 | 9.1 | 3210 | 30000 | 14.1 | 2800 | 4.5 | 4360 | 30000 | |
| A 60 3_107.8 | 107.8 | 26.0 | 2800 | 8.4 | 3300 | 30000 | 13.0 | 2800 | 4.2 | 4450 | 30000 | |
| A 60 3_123.0 | 123.0 | 22.8 | 2800 | 7.3 | 3250 | 30000 | 11.4 | 2800 | 3.7 | 4400 | 30000 | |
| A 60 3_133.3 | 133.3 | 21.0 | 2800 | 6.8 | 3340 | 30000 | 10.5 | 2800 | 3.4 | 4490 | 30000 | |
| A 60 3_144.0 | 144.0 | 19.4 | 2800 | 6.3 | 3280 | 30000 | 9.7 | 2800 | 3.1 | 4420 | 30000 | |
| A 60 3_156.0 | 156.0 | 17.9 | 2800 | 5.8 | 3360 | 30000 | 9.0 | 2800 | 2.9 | 4510 | 30000 | |
| A 60 3_171.5 | 171.5 | 16.3 | 2800 | 5.3 | 3290 | 30000 | 8.2 | 2800 | 2.6 | 4430 | 30000 | |
| A 60 3_185.8 | 185.8 | 15.1 | 2800 | 4.9 | 3370 | 30000 | 7.5 | 2800 | 2.4 | 4520 | 30000 | |
| A 60 4_208.7 | 208.7 | 13.4 | 2800 | 4.4 | 2720 | 30000 | 6.7 | 2800 | 2.2 | 3500 | 30000 | |
| A 60 4_226.1 | 226.1 | 12.4 | 2800 | 4.1 | 2770 | 30000 | 6.2 | 2800 | 2.0 | 3500 | 30000 | |
| A 60 4_264.3 | 264.3 | 10.6 | 2800 | 3.5 | 2860 | 30000 | 5.3 | 2800 | 1.7 | 3500 | 30000 | |
| A 60 4_286.3 | 286.3 | 9.8 | 2800 | 3.2 | 2900 | 30000 | 4.9 | 2800 | 1.6 | 3500 | 30000 | |
| A 60 4_324.2 | 324.2 | 8.6 | 2800 | 2.8 | 2960 | 30000 | 4.3 | 2800 | 1.4 | 3500 | 30000 | |
| A 60 4_351.2 | 351.2 | 8.0 | 2800 | 2.6 | 2990 | 30000 | 4.0 | 2800 | 1.3 | 3500 | 30000 | |
| A 60 4_404.7 | 404.7 | 6.9 | 2800 | 2.3 | 3050 | 30000 | 3.5 | 2800 | 1.1 | 3500 | 30000 | |
| A 60 4_438.4 | 438.4 | 6.4 | 2800 | 2.1 | 3070 | 30000 | 3.2 | 2800 | 1.1 | 3500 | 30000 | |
| A 60 4_500.3 | 500.3 | 5.6 | 2800 | 1.8 | 3110 | 30000 | 2.8 | 2800 | 0.92 | 3500 | 30000 | |
| A 60 4_542.0 | 542.0 | 5.2 | 2800 | 1.7 | 3140 | 30000 | 2.6 | 2800 | 0.85 | 3500 | 30000 | |
| A 60 4_585.8 | 585.8 | 4.8 | 2800 | 1.6 | 3150 | 30000 | 2.4 | 2800 | 0.79 | 3500 | 30000 | |
| A 60 4_634.6 | 634.6 | 4.4 | 2800 | 1.5 | 3170 | 30000 | 2.2 | 2800 | 0.73 | 3500 | 30000 | |
| A 60 4_697.3 | 697.3 | 4.0 | 2800 | 1.3 | 3190 | 30000 | 2.0 | 2800 | 0.66 | 3500 | 30000 | |
| A 60 4_755.4 | 755.4 | 3.7 | 2800 | 1.2 | 3210 | 30000 | 1.9 | 2800 | 0.61 | 3500 | 30000 | |

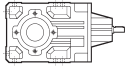



A 60 2800 Nm

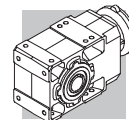
|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 60 2_7.9 | 7.9 | 114 | 1300 | 16.6 | 4190 | 30000 | 64 | 1550 | 11.0 | 4700 | 30000 | 305 |
| A 60 2_10.3 | 10.3 | 87 | 1300 | 12.6 | 4470 | 30000 | 48 | 1550 | 8.4 | 4700 | 30000 | |
| A 60 2_12.7 | 12.7 | 71 | 1400 | 11.0 | 4490 | 30000 | 39 | 1700 | 7.5 | 4700 | 30000 | |
| A 60 2_16.7 | 16.7 | 54 | 1450 | 8.7 | 4610 | 30000 | 29.9 | 1700 | 5.7 | 4700 | 30000 | |
| A 60 2_20.6 | 20.6 | 44 | 1550 | 7.5 | 4600 | 30000 | 24.3 | 1800 | 4.9 | 4700 | 30000 | |
| A 60 3_25.7 | 25.7 | 35 | 2800 | 11.3 | 4680 | 30000 | 19.4 | 2800 | 6.3 | 4700 | 30000 | |
| A 60 3_27.9 | 27.9 | 32 | 2800 | 10.4 | 4700 | 30000 | 18.0 | 2800 | 5.8 | 4700 | 30000 | |
| A 60 3_31.7 | 31.7 | 28.4 | 2800 | 9.2 | 4700 | 30000 | 15.8 | 2800 | 5.1 | 4700 | 30000 | |
| A 60 3_34.3 | 34.3 | 26.2 | 2800 | 8.5 | 4700 | 30000 | 14.6 | 2800 | 4.7 | 4700 | 30000 | |
| A 60 3_41.7 | 41.7 | 21.6 | 2800 | 7.0 | 4700 | 30000 | 12.0 | 2800 | 3.9 | 4700 | 30000 | |
| A 60 3_45.2 | 45.2 | 19.9 | 2800 | 6.4 | 4700 | 30000 | 11.1 | 2800 | 3.6 | 4700 | 30000 | |
| A 60 3_51.3 | 51.3 | 17.5 | 2800 | 5.6 | 4700 | 30000 | 9.7 | 2800 | 3.1 | 4700 | 30000 | |
| A 60 3_55.6 | 55.6 | 16.2 | 2800 | 5.2 | 4700 | 30000 | 9.0 | 2800 | 2.9 | 4700 | 30000 | |
| A 60 3_65.0 | 65.0 | 13.8 | 2800 | 4.5 | 4700 | 30000 | 7.7 | 2800 | 2.5 | 4700 | 30000 | |
| A 60 3_70.4 | 70.4 | 12.8 | 2800 | 4.1 | 4700 | 30000 | 7.1 | 2800 | 2.3 | 4700 | 30000 | |
| A 60 3_79.7 | 79.7 | 11.3 | 2800 | 3.6 | 4700 | 30000 | 6.3 | 2800 | 2.0 | 4700 | 30000 | |
| A 60 3_86.4 | 86.4 | 10.4 | 2800 | 3.4 | 4700 | 30000 | 5.8 | 2800 | 1.9 | 4700 | 30000 | |
| A 60 3_99.5 | 99.5 | 9.0 | 2800 | 2.9 | 4700 | 30000 | 5.0 | 2800 | 1.6 | 4700 | 30000 | |
| A 60 3_107.8 | 107.8 | 8.3 | 2800 | 2.7 | 4700 | 30000 | 4.6 | 2800 | 1.5 | 4700 | 30000 | |
| A 60 3_123.0 | 123.0 | 7.3 | 2800 | 2.4 | 4700 | 30000 | 4.1 | 2800 | 1.3 | 4700 | 30000 | |
| A 60 3_133.3 | 133.3 | 6.8 | 2800 | 2.2 | 4700 | 30000 | 3.8 | 2800 | 1.2 | 4700 | 30000 | |
| A 60 3_144.0 | 144.0 | 6.2 | 2800 | 2.0 | 4700 | 30000 | 3.5 | 2800 | 1.1 | 4700 | 30000 | |
| A 60 3_156.0 | 156.0 | 5.8 | 2800 | 1.9 | 4700 | 30000 | 3.2 | 2800 | 1.0 | 4700 | 30000 | |
| A 60 3_171.5 | 171.5 | 5.2 | 2800 | 1.7 | 4700 | 30000 | 2.9 | 2800 | 0.94 | 4700 | 30000 | |
| A 60 3_185.8 | 185.8 | 4.8 | 2800 | 1.6 | 4700 | 30000 | 2.7 | 2800 | 0.87 | 4700 | 30000 | |
| A 60 4_208.7 | 208.7 | 4.3 | 2800 | 1.4 | 3500 | 30000 | 2.4 | 2800 | 0.79 | 3500 | 30000 | |
| A 60 4_226.1 | 226.1 | 4.0 | 2800 | 1.3 | 3500 | 30000 | 2.2 | 2800 | 0.73 | 3500 | 30000 | |
| A 60 4_264.3 | 264.3 | 3.4 | 2800 | 1.1 | 3500 | 30000 | 1.9 | 2800 | 0.62 | 3500 | 30000 | |
| A 60 4_286.3 | 286.3 | 3.1 | 2800 | 1.0 | 3500 | 30000 | 1.7 | 2800 | 0.58 | 3500 | 30000 | |
| A 60 4_324.2 | 324.2 | 2.8 | 2800 | 0.91 | 3500 | 30000 | 1.5 | 2800 | 0.51 | 3500 | 30000 | |
| A 60 4_351.2 | 351.2 | 2.6 | 2800 | 0.84 | 3500 | 30000 | 1.4 | 2800 | 0.47 | 3500 | 30000 | |
| A 60 4_404.7 | 404.7 | 2.2 | 2800 | 0.73 | 3500 | 30000 | 1.2 | 2800 | 0.41 | 3500 | 30000 | |
| A 60 4_438.4 | 438.4 | 2.1 | 2800 | 0.68 | 3500 | 30000 | 1.1 | 2800 | 0.38 | 3500 | 30000 | |
| A 60 4_500.3 | 500.3 | 1.8 | 2800 | 0.59 | 3500 | 30000 | 1.0 | 2800 | 0.33 | 3500 | 30000 | |
| A 60 4_542.0 | 542.0 | 1.7 | 2800 | 0.55 | 3500 | 30000 | 0.92 | 2800 | 0.30 | 3500 | 30000 | |
| A 60 4_585.8 | 585.8 | 1.5 | 2800 | 0.51 | 3500 | 30000 | 0.85 | 2800 | 0.28 | 3500 | 30000 | |
| A 60 4_634.6 | 634.6 | 1.4 | 2800 | 0.47 | 3500 | 30000 | 0.79 | 2800 | 0.26 | 3500 | 30000 | |
| A 60 4_697.3 | 697.3 | 1.3 | 2800 | 0.43 | 3500 | 30000 | 0.72 | 2800 | 0.24 | 3500 | 30000 | |
| A 60 4_755.4 | 755.4 | 1.2 | 2800 | 0.39 | 3500 | 30000 | 0.66 | 2800 | 0.22 | 3500 | 30000 | |



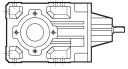

A 70 5000 Nm

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 70 3_9.4 | 9.4 | 297 | 2300 | 79 | 1900 | 25900 | 148 | 2800 | 48 | 2550 | 31900 | |
| A 70 3_10.2 | 10.2 | 274 | 2400 | 76 | 2480 | 26400 | 137 | 3200 | 50 | 1480 | 31900 | |
| A 70 3_12.1 | 12.1 | 232 | 2400 | 64 | 2420 | 28000 | 116 | 3200 | 43 | 1400 | 33900 | |
| A 70 3_13.1 | 13.1 | 214 | 2600 | 64 | 2420 | 28400 | 107 | 3350 | 41 | 2100 | 34600 | |
| A 70 3_15.4 | 15.4 | 182 | 2700 | 56 | 2100 | 29900 | 91 | 3350 | 35 | 2430 | 36700 | |
| A 70 3_16.7 | 16.7 | 168 | 2850 | 55 | 2500 | 30400 | 84 | 3600 | 35 | 2590 | 37200 | |
| A 70 3_19.7 | 19.7 | 142 | 2900 | 48 | 2030 | 32100 | 71 | 3700 | 30 | 1790 | 39300 | |
| A 70 3_21.3 | 21.3 | 131 | 3000 | 45 | 2750 | 32900 | 66 | 4000 | 30 | 1830 | 39800 | |
| A 70 3_23.5 | 23.5 | 119 | 3500 | 48 | 4930 | 32900 | 60 | 4300 | 30 | 6250 | 40500 | |
| A 70 3_27.8 | 27.8 | 101 | 3450 | 40 | 4960 | 35100 | 50 | 4200 | 24 | 6300 | 43300 | |
| A 70 3_30.1 | 30.1 | 93 | 3700 | 40 | 4970 | 35600 | 47 | 4550 | 24 | 6300 | 43900 | |
| A 70 3_35.4 | 35.4 | 79 | 3650 | 33 | 5040 | 37900 | 40 | 4500 | 21 | 6370 | 46600 | |
| A 70 3_38.4 | 38.4 | 73 | 3950 | 33 | 5040 | 38400 | 36 | 4850 | 20 | 6380 | 47300 | |
| A 70 3_45.2 | 45.2 | 62 | 3900 | 28 | 5050 | 40800 | 31 | 4800 | 17.1 | 6400 | 50000 | |
| A 70 3_49.0 | 49.0 | 57 | 4250 | 28 | 5050 | 41300 | 28.6 | 5000 | 16.4 | 6450 | 50000 | |
| A 70 3_53.2 | 53.2 | 53 | 4100 | 25 | 5030 | 42900 | 26.3 | 5000 | 15.1 | 6380 | 50000 | |
| A 70 3_57.7 | 57.7 | 49 | 4450 | 25 | 5030 | 43400 | 24.3 | 5000 | 14.0 | 6490 | 50000 | |
| A 70 3_66.9 | 66.9 | 42 | 4350 | 21 | 5050 | 46000 | 20.9 | 5000 | 12.0 | 6480 | 50000 | |
| A 70 3_72.5 | 72.5 | 39 | 4750 | 21 | 5040 | 46500 | 19.3 | 5000 | 11.1 | 6580 | 50000 | |
| A 70 3_79.3 | 79.3 | 35 | 4600 | 18.7 | 5020 | 48400 | 17.6 | 5000 | 10.2 | 6520 | 50000 | |
| A 70 3_85.9 | 85.9 | 33 | 4950 | 18.6 | 5030 | 49100 | 16.3 | 5000 | 9.4 | 6620 | 50000 | |
| A 70 3_96.2 | 96.2 | 29.1 | 4850 | 16.2 | 5000 | 50000 | 14.6 | 5000 | 8.4 | 6570 | 50000 | |
| A 70 3_104.2 | 104.2 | 26.9 | 5000 | 15.5 | 5060 | 50000 | 13.4 | 5000 | 7.7 | 6660 | 50000 | |
| A 70 3_120.6 | 120.6 | 23.2 | 5000 | 13.4 | 5010 | 50000 | 11.6 | 5000 | 6.7 | 6610 | 50000 | |
| A 70 3_130.7 | 130.7 | 21.4 | 5000 | 12.3 | 5100 | 50000 | 10.7 | 5000 | 6.2 | 6690 | 50000 | |
| A 70 3_141.9 | 141.9 | 19.7 | 5000 | 11.4 | 5040 | 50000 | 9.9 | 5000 | 5.7 | 6640 | 50000 | |
| A 70 3_153.7 | 153.7 | 18.2 | 3300 | 6.9 | 5410 | 50000 | 9.1 | 4050 | 4.2 | 6920 | 50000 | |
| A 70 4_169.8 | 169.8 | 16.5 | 5000 | 9.7 | 1130 | 50000 | 8.2 | 5000 | 4.9 | 2520 | 50000 | |
| A 70 4_183.9 | 183.9 | 15.2 | 5000 | 9.0 | 1450 | 50000 | 7.6 | 5000 | 4.5 | 2670 | 50000 | |
| A 70 4_220.3 | 220.3 | 12.7 | 5000 | 7.5 | 1560 | 50000 | 6.4 | 5000 | 3.7 | 2710 | 50000 | |
| A 70 4_238.6 | 238.6 | 11.7 | 5000 | 6.9 | 1860 | 50000 | 5.9 | 5000 | 3.5 | 2770 | 50000 | |
| A 70 4_292.0 | 292.0 | 9.6 | 5000 | 5.6 | 1900 | 50000 | 4.8 | 5000 | 2.8 | 2790 | 50000 | |
| A 70 4_316.4 | 316.4 | 8.9 | 5000 | 5.2 | 2110 | 50000 | 4.4 | 5000 | 2.6 | 2850 | 50000 | |
| A 70 4_369.4 | 369.4 | 7.6 | 5000 | 4.5 | 2110 | 50000 | 3.8 | 5000 | 2.2 | 2840 | 50000 | |
| A 70 4_400.2 | 400.2 | 7.0 | 5000 | 4.1 | 2160 | 50000 | 3.5 | 5000 | 2.1 | 2900 | 50000 | |
| A 70 4_475.8 | 475.8 | 5.9 | 5000 | 3.5 | 2150 | 50000 | 2.9 | 5000 | 1.7 | 2890 | 50000 | |
| A 70 4_515.4 | 515.4 | 5.4 | 5000 | 3.2 | 2200 | 50000 | 2.7 | 5000 | 1.6 | 2940 | 50000 | |
| A 70 4_595.0 | 595.0 | 4.7 | 5000 | 2.8 | 2190 | 50000 | 2.4 | 5000 | 1.4 | 2920 | 50000 | |
| A 70 4_644.6 | 644.6 | 4.3 | 5000 | 2.6 | 2230 | 50000 | 2.2 | 5000 | 1.3 | 2970 | 50000 | |
| A 70 4_705.1 | 705.1 | 4.0 | 5000 | 2.3 | 2200 | 50000 | 2.0 | 5000 | 1.2 | 2940 | 50000 | |
| A 70 4_763.9 | 763.9 | 3.7 | 5000 | 2.2 | 2250 | 50000 | 1.8 | 5000 | 1.1 | 2990 | 50000 | |
| A 70 4_855.3 | 855.3 | 3.3 | 5000 | 1.9 | 2220 | 50000 | 1.6 | 5000 | 0.96 | 2960 | 50000 | |
| A 70 4_926.5 | 926.5 | 3.0 | 5000 | 1.8 | 2270 | 50000 | 1.5 | 5000 | 0.89 | 3000 | 50000 | |
| A 70 4_1072 | 1072 | 2.6 | 5000 | 1.5 | 2240 | 50000 | 1.3 | 5000 | 0.77 | 2970 | 50000 | |
| A 70 4_1161 | 1161 | 2.4 | 5000 | 1.4 | 2280 | 50000 | 1.2 | 5000 | 0.71 | 3020 | 50000 | |
| A 70 4_1242 | 1242 | 2.3 | 5000 | 1.3 | 2250 | 50000 | 1.1 | 5000 | 0.66 | 2980 | 50000 | |
| A 70 4_1346 | 1346 | 2.1 | 5000 | 1.2 | 2290 | 50000 | 1.0 | 5000 | 0.61 | 3030 | 50000 | |
| A 70 4_1583 | 1583 | 1.8 | 5000 | 1.0 | 2260 | 50000 | 0.88 | 5000 | 0.52 | 2990 | 50000 | |
| A 70 4_1715 | 1715 | 1.6 | 5000 | 0.96 | 2300 | 50000 | 0.82 | 5000 | 0.48 | 3040 | 50000 | |

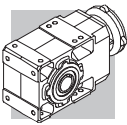
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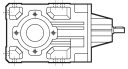

A 70 5000 Nm

|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| A 70 3_9.4 | 9.4 | 95 | 3000 | 33 | 4290 | 36900 | 53 | 3000 | 18.3 | 7000 | 45400 | |
| A 70 3_10.2 | 10.2 | 88 | 3250 | 33 | 4290 | 37400 | 49 | 3250 | 18.3 | 7000 | 46100 | |
| A 70 3_12.1 | 12.1 | 75 | 3650 | 31 | 1620 | 38700 | 41 | 3650 | 17.4 | 6470 | 47900 | |
| A 70 3_13.1 | 13.1 | 69 | 3950 | 31 | 1650 | 39200 | 38 | 3950 | 17.4 | 6500 | 48600 | |
| A 70 3_15.4 | 15.4 | 58 | 3700 | 25 | 3510 | 42200 | 32 | 3700 | 13.8 | 7000 | 50000 | |
| A 70 3_16.7 | 16.7 | 54 | 4000 | 25 | 3560 | 42800 | 30 | 4000 | 13.8 | 7000 | 50000 | |
| A 70 3_19.7 | 19.7 | 46 | 3700 | 19.5 | 4910 | 46100 | 25.4 | 3700 | 10.8 | 7000 | 50000 | |
| A 70 3_21.3 | 21.3 | 42 | 4000 | 19.4 | 4950 | 46800 | 23.5 | 4000 | 10.8 | 7000 | 50000 | |
| A 70 3_23.5 | 23.5 | 38 | 4900 | 21.6 | 7000 | 46300 | 21.3 | 5000 | 12.2 | 7000 | 50000 | |
| A 70 3_27.8 | 27.8 | 32 | 4800 | 17.9 | 7000 | 49400 | 18.0 | 5000 | 10.4 | 7000 | 50000 | |
| A 70 3_30.1 | 30.1 | 29.9 | 5000 | 17.2 | 7000 | 50000 | 16.6 | 5000 | 9.6 | 7000 | 50000 | |
| A 70 3_35.4 | 35.4 | 25.4 | 5000 | 14.6 | 7000 | 50000 | 14.1 | 5000 | 8.1 | 7000 | 50000 | |
| A 70 3_38.4 | 38.4 | 23.4 | 5000 | 13.5 | 7000 | 50000 | 13.0 | 5000 | 7.5 | 7000 | 50000 | |
| A 70 3_45.2 | 45.2 | 19.9 | 5000 | 11.4 | 7000 | 50000 | 11.1 | 5000 | 6.4 | 7000 | 50000 | |
| A 70 3_49.0 | 49.0 | 18.4 | 5000 | 10.6 | 7000 | 50000 | 10.2 | 5000 | 5.9 | 7000 | 50000 | |
| A 70 3_53.2 | 53.2 | 16.9 | 5000 | 9.7 | 7000 | 50000 | 9.4 | 5000 | 5.4 | 7000 | 50000 | |
| A 70 3_57.7 | 57.7 | 15.6 | 5000 | 9.0 | 7000 | 50000 | 8.7 | 5000 | 5.0 | 7000 | 50000 | |
| A 70 3_66.9 | 66.9 | 13.4 | 5000 | 7.7 | 7000 | 50000 | 7.5 | 5000 | 4.3 | 7000 | 50000 | |
| A 70 3_72.5 | 72.5 | 12.4 | 5000 | 7.1 | 7000 | 50000 | 6.9 | 5000 | 4.0 | 7000 | 50000 | |
| A 70 3_79.3 | 79.3 | 11.3 | 5000 | 6.5 | 7000 | 50000 | 6.3 | 5000 | 3.6 | 7000 | 50000 | |
| A 70 3_85.9 | 85.9 | 10.5 | 5000 | 6.0 | 7000 | 50000 | 5.8 | 5000 | 3.3 | 7000 | 50000 | |
| A 70 3_96.2 | 96.2 | 9.4 | 5000 | 5.4 | 7000 | 50000 | 5.2 | 5000 | 3.0 | 7000 | 50000 | |
| A 70 3_104.2 | 104.2 | 8.6 | 5000 | 5.0 | 7000 | 50000 | 4.8 | 5000 | 2.8 | 7000 | 50000 | |
| A 70 3_120.6 | 120.6 | 7.5 | 5000 | 4.3 | 7000 | 50000 | 4.1 | 5000 | 2.4 | 7000 | 50000 | |
| A 70 3_130.7 | 130.7 | 6.9 | 5000 | 4.0 | 7000 | 50000 | 3.8 | 5000 | 2.2 | 7000 | 50000 | |
| A 70 3_141.9 | 141.9 | 6.3 | 5000 | 3.7 | 7000 | 50000 | 3.5 | 5000 | 2.0 | 7000 | 50000 | |
| A 70 3_153.7 | 153.7 | 5.9 | 4600 | 3.1 | 7000 | 50000 | 3.3 | 5000 | 1.9 | 7000 | 50000 | |
| A 70 4_169.8 | 169.8 | 5.3 | 5000 | 3.1 | 3170 | 50000 | 2.9 | 5000 | 1.7 | 3500 | 50000 | |
| A 70 4_183.9 | 183.9 | 4.9 | 5000 | 2.9 | 3240 | 50000 | 2.7 | 5000 | 1.6 | 3500 | 50000 | |
| A 70 4_220.3 | 220.3 | 4.1 | 5000 | 2.4 | 3270 | 50000 | 2.3 | 5000 | 1.3 | 3500 | 50000 | |
| A 70 4_238.6 | 238.6 | 3.8 | 5000 | 2.2 | 3340 | 50000 | 2.1 | 5000 | 1.2 | 3500 | 50000 | |
| A 70 4_292.0 | 292.0 | 3.1 | 5000 | 1.8 | 3350 | 50000 | 1.7 | 5000 | 1.0 | 3500 | 50000 | |
| A 70 4_316.4 | 316.4 | 2.8 | 5000 | 1.7 | 3410 | 50000 | 1.6 | 5000 | 0.93 | 3500 | 50000 | |
| A 70 4_369.4 | 369.4 | 2.4 | 5000 | 1.4 | 3410 | 50000 | 1.4 | 5000 | 0.80 | 3500 | 50000 | |
| A 70 4_400.2 | 400.2 | 2.2 | 5000 | 1.3 | 3460 | 50000 | 1.2 | 5000 | 0.74 | 3500 | 50000 | |
| A 70 4_475.8 | 475.8 | 1.9 | 5000 | 1.1 | 3450 | 50000 | 1.1 | 5000 | 0.62 | 3500 | 50000 | |
| A 70 4_515.4 | 515.4 | 1.7 | 5000 | 1.0 | 3500 | 50000 | 0.97 | 5000 | 0.57 | 3500 | 50000 | |
| A 70 4_595.0 | 595.0 | 1.5 | 5000 | 0.89 | 3480 | 50000 | 0.84 | 5000 | 0.49 | 3500 | 50000 | |
| A 70 4_644.6 | 644.6 | 1.4 | 5000 | 0.82 | 3500 | 50000 | 0.78 | 5000 | 0.46 | 3500 | 50000 | |
| A 70 4_705.1 | 705.1 | 1.3 | 5000 | 0.75 | 3500 | 50000 | 0.71 | 5000 | 0.42 | 3500 | 50000 | |
| A 70 4_763.9 | 763.9 | 1.2 | 5000 | 0.69 | 3500 | 50000 | 0.65 | 5000 | 0.39 | 3500 | 50000 | |
| A 70 4_855.3 | 855.3 | 1.1 | 5000 | 0.62 | 3500 | 50000 | 0.58 | 5000 | 0.34 | 3500 | 50000 | |
| A 70 4_926.5 | 926.5 | 0.97 | 5000 | 0.57 | 3500 | 50000 | 0.54 | 5000 | 0.32 | 3500 | 50000 | |
| A 70 4_1072 | 1072 | 0.84 | 5000 | 0.49 | 3500 | 50000 | 0.47 | 5000 | 0.27 | 3500 | 50000 | |
| A 70 4_1161 | 1161 | 0.77 | 5000 | 0.46 | 3500 | 50000 | 0.43 | 5000 | 0.25 | 3500 | 50000 | |
| A 70 4_1242 | 1242 | 0.72 | 5000 | 0.43 | 3500 | 50000 | 0.40 | 5000 | 0.24 | 3500 | 50000 | |
| A 70 4_1346 | 1346 | 0.67 | 5000 | 0.39 | 3500 | 50000 | 0.37 | 5000 | 0.22 | 3500 | 50000 | |
| A 70 4_1583 | 1583 | 0.57 | 5000 | 0.33 | 3500 | 50000 | 0.32 | 5000 | 0.19 | 3500 | 50000 | |
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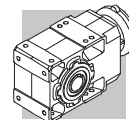


A 80 8000 Nm

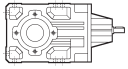

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 80 3_9.8 | 9.8 | 285 | 3100 | 102 | — | 26300 | 142 | 3900 | 64 | — | 32100 | |
| A 80 3_10.7 | 10.7 | 263 | 3450 | 104 | — | 26300 | 131 | 4300 | 65 | — | 32300 | |
| A 80 3_12.3 | 12.3 | 228 | 3450 | 91 | — | 27700 | 114 | 4300 | 56 | — | 34000 | |
| A 80 3_13.3 | 13.3 | 211 | 3450 | 84 | 1150 | 28700 | 105 | 4300 | 52 | 1150 | 35200 | |
| A 80 3_15.5 | 15.5 | 181 | 3300 | 69 | 1560 | 30600 | 91 | 4100 | 43 | 1730 | 37600 | |
| A 80 3_16.7 | 16.7 | 167 | 3600 | 69 | 1440 | 30900 | 84 | 4500 | 43 | 1460 | 37900 | |
| A 80 3_19.3 | 19.3 | 145 | 3500 | 58 | 1870 | 32800 | 72 | 4400 | 37 | 1880 | 40200 | |
| A 80 3_20.9 | 20.9 | 134 | 3840 | 59 | 1670 | 33100 | 67 | 4800 | 37 | 1740 | 40600 | |
| A 80 3_22.6 | 22.6 | 124 | 5050 | 72 | 4500 | 31200 | 62 | 6250 | 45 | 5830 | 38400 | |
| A 80 3_24.5 | 24.5 | 114 | 5500 | 72 | 4470 | 31300 | 57 | 6750 | 44 | 5840 | 38600 | |
| A 80 3_28.2 | 28.2 | 99 | 5350 | 61 | 4700 | 33500 | 50 | 6600 | 38 | 5960 | 41200 | |
| A 80 3_30.6 | 30.6 | 92 | 5250 | 55 | 4840 | 34900 | 46 | 6450 | 34 | 6140 | 43000 | |
| A 80 3_35.5 | 35.5 | 79 | 5700 | 52 | 4700 | 36000 | 39 | 7000 | 32 | 6000 | 44300 | |
| A 80 3_38.5 | 38.5 | 73 | 6150 | 51 | 4720 | 36200 | 36 | 7600 | 32 | 6000 | 44500 | |
| A 80 3_44.5 | 44.5 | 63 | 6050 | 44 | 4790 | 38600 | 31 | 7450 | 27 | 6070 | 47500 | |
| A 80 3_48.2 | 48.2 | 58 | 6550 | 44 | 4790 | 38800 | 29.1 | 8000 | 27 | 6090 | 47900 | |
| A 80 3_55.2 | 55.2 | 51 | 6400 | 37 | 4710 | 41300 | 25.4 | 7900 | 23 | 6050 | 50800 | |
| A 80 3_59.8 | 59.8 | 47 | 6950 | 37 | 4690 | 41500 | 23.4 | 8000 | 22 | 6170 | 52300 | |
| A 80 3_66.8 | 66.8 | 42 | 6800 | 33 | 4670 | 43700 | 21.0 | 8000 | 19.3 | 6150 | 54600 | |
| A 80 3_72.4 | 72.4 | 39 | 7350 | 33 | 4680 | 44000 | 19.3 | 8000 | 17.8 | 6280 | 56500 | |
| A 80 3_82.3 | 82.3 | 34 | 7200 | 28 | 4570 | 46600 | 17.0 | 8000 | 15.7 | 6230 | 59300 | |
| A 80 3_89.2 | 89.2 | 31 | 7800 | 28 | 4570 | 46900 | 15.7 | 8000 | 14.5 | 6350 | 61400 | |
| A 80 3_96.0 | 96.0 | 29.2 | 7500 | 25 | 4410 | 48900 | 14.6 | 8000 | 13.4 | 6260 | 63000 | |
| A 80 3_104.0 | 104.0 | 26.9 | 8000 | 25 | 4500 | 49500 | 13.5 | 8000 | 12.4 | 6380 | 65000 | |
| A 80 3_116.0 | 116.0 | 24.1 | 7950 | 22 | 4230 | 51700 | 12.1 | 8000 | 11.1 | 6300 | 65000 | |
| A 80 3_125.6 | 125.6 | 22.3 | 8000 | 21 | 4630 | 53400 | 11.1 | 8000 | 10.3 | 6420 | 65000 | |
| A 80 3_144.7 | 144.7 | 19.3 | 8000 | 17.8 | 4320 | 56400 | 9.7 | 8000 | 8.9 | 6350 | 65000 | |
| A 80 3_156.8 | 156.8 | 17.9 | 8000 | 16.4 | 4750 | 58300 | 8.9 | 8000 | 8.2 | 6460 | 65000 | |
| A 80 4_171.3 | 171.3 | 16.3 | 8000 | 15.4 | — | 65000 | 8.2 | 8000 | 7.7 | 1230 | 65000 | |
| A 80 4_214.7 | 214.7 | 13.0 | 8000 | 12.3 | — | 65000 | 6.5 | 8000 | 6.1 | 1400 | 65000 | |
| A 80 4_232.6 | 232.6 | 12.0 | 8000 | 11.3 | — | 65000 | 6.0 | 8000 | 5.7 | 1810 | 65000 | |
| A 80 4_277.3 | 277.3 | 10.1 | 8000 | 9.5 | 540 | 65000 | 5.0 | 8000 | 4.8 | 1930 | 65000 | |
| A 80 4_300.4 | 300.4 | 9.3 | 8000 | 8.8 | 900 | 65000 | 4.7 | 8000 | 4.4 | 2290 | 65000 | |
| A 80 4_354.0 | 354.0 | 7.9 | 8000 | 7.4 | 800 | 65000 | 4.0 | 8000 | 3.7 | 2190 | 65000 | |
| A 80 4_383.5 | 383.5 | 7.3 | 8000 | 6.9 | 1140 | 65000 | 3.7 | 8000 | 3.4 | 2530 | 65000 | |
| A 80 4_442.1 | 442.1 | 6.3 | 8000 | 6.0 | 1040 | 65000 | 3.2 | 8000 | 3.0 | 2430 | 65000 | |
| A 80 4_478.9 | 478.9 | 5.8 | 8000 | 5.5 | 1370 | 65000 | 2.9 | 8000 | 2.8 | 2670 | 65000 | |
| A 80 4_560.5 | 560.5 | 5.0 | 8000 | 4.7 | 1240 | 65000 | 2.5 | 8000 | 2.4 | 2630 | 65000 | |
| A 80 4_607.2 | 607.2 | 4.6 | 8000 | 4.3 | 1550 | 65000 | 2.3 | 8000 | 2.2 | 2720 | 65000 | |
| A 80 4_703.5 | 703.5 | 4.0 | 8000 | 3.7 | 1440 | 65000 | 2.0 | 8000 | 1.9 | 2690 | 65000 | |
| A 80 4_762.1 | 762.1 | 3.7 | 8000 | 3.5 | 1730 | 65000 | 1.8 | 8000 | 1.7 | 2760 | 65000 | |
| A 80 4_829.5 | 829.5 | 3.4 | 8000 | 3.2 | 1530 | 65000 | 1.7 | 8000 | 1.6 | 2720 | 65000 | |
| A 80 4_898.7 | 898.7 | 3.1 | 8000 | 2.9 | 1820 | 65000 | 1.6 | 8000 | 1.5 | 2780 | 65000 | |
| A 80 4_1001 | 1001 | 2.8 | 8000 | 2.6 | 1620 | 65000 | 1.4 | 8000 | 1.3 | 2740 | 65000 | |
| A 80 4_1085 | 1085 | 2.6 | 8000 | 2.4 | 1900 | 65000 | 1.3 | 8000 | 1.2 | 2800 | 65000 | |
| A 80 4_1237 | 1237 | 2.3 | 8000 | 2.1 | 1660 | 65000 | 1.1 | 8000 | 1.1 | 2750 | 65000 | |
| A 80 4_1340 | 1340 | 2.1 | 8000 | 2.0 | 1940 | 65000 | 1.0 | 8000 | 0.98 | 2810 | 65000 | |
| A 80 4_1438 | 1438 | 1.9 | 8000 | 1.8 | 1730 | 65000 | 0.97 | 8000 | 0.92 | 2770 | 65000 | |
| A 80 4_1558 | 1558 | 1.8 | 8000 | 1.7 | 2000 | 65000 | 0.90 | 8000 | 0.85 | 2830 | 65000 | |

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(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

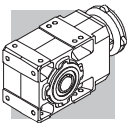


A 80 8000 Nm

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 80 3_9.8 | 9.8 | 92 | 4450 | 47 | — | 36700 | 51 | 5300 | 31 | — | 43800 | |
| A 80 3_10.7 | 10.7 | 84 | 4900 | 48 | — | 36900 | 47 | 5850 | 32 | — | 44000 | |
| A 80 3_12.3 | 12.3 | 73 | 4900 | 41 | — | 38900 | 41 | 5850 | 27 | — | 46400 | |
| A 80 3_13.3 | 13.3 | 68 | 4900 | 38 | 1360 | 40200 | 38 | 5850 | 25 | 1600 | 47900 | |
| A 80 3_15.5 | 15.5 | 58 | 4650 | 31 | 2130 | 43000 | 32 | 5550 | 21 | 2530 | 51300 | |
| A 80 3_16.7 | 16.7 | 54 | 5100 | 32 | 1840 | 43400 | 29.9 | 6100 | 21 | 2120 | 51700 | |
| A 80 3_19.3 | 19.3 | 47 | 5000 | 27 | 2260 | 46000 | 25.9 | 6000 | 17.9 | 2530 | 54800 | |
| A 80 3_20.9 | 20.9 | 43 | 5470 | 27 | 2030 | 46400 | 23.9 | 6500 | 17.9 | 2530 | 55400 | |
| A 80 3_22.6 | 22.6 | 40 | 7100 | 33 | 6810 | 43900 | 22.1 | 8000 | 20.4 | 7000 | 53400 | |
| A 80 3_24.5 | 24.5 | 37 | 7700 | 33 | 6800 | 44100 | 20.4 | 8000 | 18.8 | 7000 | 55300 | |
| A 80 3_28.2 | 28.2 | 32 | 7550 | 28 | 6940 | 47000 | 17.7 | 8000 | 16.3 | 7000 | 58400 | |
| A 80 3_30.6 | 30.6 | 29.4 | 7400 | 25 | 7000 | 49000 | 16.4 | 8000 | 15.1 | 7000 | 60400 | |
| A 80 3_35.5 | 35.5 | 25.3 | 8000 | 23 | 6980 | 50600 | 14.1 | 8000 | 13.0 | 7000 | 63900 | |
| A 80 3_38.5 | 38.5 | 23.4 | 8000 | 22 | 7000 | 52400 | 13.0 | 8000 | 12.0 | 7000 | 65000 | |
| A 80 3_44.5 | 44.5 | 20.2 | 8000 | 18.6 | 7000 | 55400 | 11.2 | 8000 | 10.3 | 7000 | 65000 | |
| A 80 3_48.2 | 48.2 | 18.7 | 8000 | 17.2 | 7000 | 57300 | 10.4 | 8000 | 9.6 | 7000 | 65000 | |
| A 80 3_55.2 | 55.2 | 16.3 | 8000 | 15.0 | 7000 | 60300 | 9.1 | 8000 | 8.3 | 7000 | 65000 | |
| A 80 3_59.8 | 59.8 | 15.1 | 8000 | 13.9 | 7000 | 62300 | 8.4 | 8000 | 7.7 | 7000 | 65000 | |
| A 80 3_66.8 | 66.8 | 13.5 | 8000 | 12.4 | 7000 | 65000 | 7.5 | 8000 | 6.9 | 7000 | 65000 | |
| A 80 3_72.4 | 72.4 | 12.4 | 8000 | 11.4 | 7000 | 65000 | 6.9 | 8000 | 6.4 | 7000 | 65000 | |
| A 80 3_82.3 | 82.3 | 10.9 | 8000 | 10.1 | 7000 | 65000 | 6.1 | 8000 | 5.6 | 7000 | 65000 | |
| A 80 3_89.2 | 89.2 | 10.1 | 8000 | 9.3 | 7000 | 65000 | 5.6 | 8000 | 5.2 | 7000 | 65000 | |
| A 80 3_96.0 | 96.0 | 9.4 | 8000 | 8.6 | 7000 | 65000 | 5.2 | 8000 | 4.8 | 7000 | 65000 | |
| A 80 3_104.0 | 104.0 | 8.7 | 8000 | 8.0 | 7000 | 65000 | 4.8 | 8000 | 4.4 | 7000 | 65000 | |
| A 80 3_116.0 | 116.0 | 7.8 | 8000 | 7.1 | 7000 | 65000 | 4.3 | 8000 | 4.0 | 7000 | 65000 | |
| A 80 3_125.6 | 125.6 | 7.2 | 8000 | 6.6 | 7000 | 65000 | 4.0 | 8000 | 3.7 | 7000 | 65000 | |
| A 80 3_144.7 | 144.7 | 6.2 | 8000 | 5.7 | 7000 | 65000 | 3.5 | 8000 | 3.2 | 7000 | 65000 | |
| A 80 3_156.8 | 156.8 | 5.7 | 8000 | 5.3 | 7000 | 65000 | 3.2 | 8000 | 2.9 | 7000 | 65000 | |
| A 80 4_171.3 | 171.3 | 5.3 | 8000 | 4.9 | 2300 | 65000 | 2.9 | 8000 | 2.7 | 3500 | 65000 | |
| A 80 4_214.7 | 214.7 | 4.2 | 8000 | 3.9 | 2470 | 65000 | 2.3 | 8000 | 2.2 | 3500 | 65000 | |
| A 80 4_232.6 | 232.6 | 3.9 | 8000 | 3.6 | 2870 | 65000 | 2.1 | 8000 | 2.0 | 3500 | 65000 | |
| A 80 4_277.3 | 277.3 | 3.2 | 8000 | 3.1 | 3000 | 65000 | 1.8 | 8000 | 1.7 | 3500 | 65000 | |
| A 80 4_300.4 | 300.4 | 3.0 | 8000 | 2.8 | 3120 | 65000 | 1.7 | 8000 | 1.6 | 3500 | 65000 | |
| A 80 4_354.0 | 354.0 | 2.5 | 8000 | 2.4 | 3100 | 65000 | 1.4 | 8000 | 1.3 | 3500 | 65000 | |
| A 80 4_383.5 | 383.5 | 2.3 | 8000 | 2.2 | 3180 | 65000 | 1.3 | 8000 | 1.2 | 3500 | 65000 | |
| A 80 4_442.1 | 442.1 | 2.0 | 8000 | 1.9 | 3160 | 65000 | 1.1 | 8000 | 1.1 | 3500 | 65000 | |
| A 80 4_478.9 | 478.9 | 1.9 | 8000 | 1.8 | 3230 | 65000 | 1.0 | 8000 | 0.98 | 3500 | 65000 | |
| A 80 4_560.5 | 560.5 | 1.6 | 8000 | 1.5 | 3210 | 65000 | 0.89 | 8000 | 0.84 | 3500 | 65000 | |
| A 80 4_607.2 | 607.2 | 1.5 | 8000 | 1.4 | 3280 | 65000 | 0.82 | 8000 | 0.78 | 3500 | 65000 | |
| A 80 4_703.5 | 703.5 | 1.3 | 8000 | 1.2 | 3260 | 65000 | 0.71 | 8000 | 0.67 | 3500 | 65000 | |
| A 80 4_762.1 | 762.1 | 1.2 | 8000 | 1.1 | 3320 | 65000 | 0.66 | 8000 | 0.62 | 3500 | 65000 | |
| A 80 4_829.5 | 829.5 | 1.1 | 8000 | 1.0 | 3280 | 65000 | 0.60 | 8000 | 0.57 | 3500 | 65000 | |
| A 80 4_898.7 | 898.7 | 1.0 | 8000 | 0.94 | 3340 | 65000 | 0.56 | 8000 | 0.52 | 3500 | 65000 | |
| A 80 4_1001 | 1001 | 0.90 | 8000 | 0.85 | 3300 | 65000 | 0.50 | 8000 | 0.47 | 3500 | 65000 | |
| A 80 4_1085 | 1085 | 0.83 | 8000 | 0.78 | 3360 | 65000 | 0.46 | 8000 | 0.43 | 3500 | 65000 | |
| A 80 4_1237 | 1237 | 0.73 | 8000 | 0.68 | 3310 | 65000 | 0.40 | 8000 | 0.38 | 3500 | 65000 | |
| A 80 4_1340 | 1340 | 0.67 | 8000 | 0.63 | 3370 | 65000 | 0.37 | 8000 | 0.35 | 3500 | 65000 | |
| A 80 4_1438 | 1438 | 0.63 | 8000 | 0.59 | 3330 | 65000 | 0.35 | 8000 | 0.33 | 3500 | 65000 | |
| A 80 4_1558 | 1558 | 0.58 | 8000 | 0.54 | 3390 | 65000 | 0.32 | 8000 | 0.30 | 3500 | 65000 | |

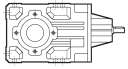

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(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

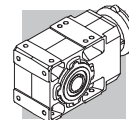


A 90

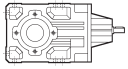

14000 Nm

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 90 3_9.7 | 9.7 | 289 | 7800 | 260 | 2440 | 27600 | 145 | 9050 | 151 | 5520 | 35000 | 315 |
| A 90 3_10.5 | 10.5 | 267 | 8350 | 257 | 2620 | 27700 | 134 | 9800 | 151 | 5530 | 34900 | |
| A 90 3_12.6 | 12.6 | 221 | 8500 | 217 | 2700 | 29800 | 111 | 10450 | 133 | 4790 | 36700 | |
| A 90 3_13.7 | 13.7 | 204 | 8050 | 189 | 4670 | 31800 | 102 | 11150 | 131 | 5060 | 36900 | |
| A 90 3_15.6 | 15.6 | 180 | 8900 | 184 | 3240 | 32000 | 90 | 10950 | 113 | 5410 | 39400 | |
| A 90 3_16.9 | 16.9 | 166 | 9650 | 184 | 3230 | 31900 | 83 | 11850 | 113 | 5440 | 39300 | |
| A 90 3_19.4 | 19.4 | 144 | 9400 | 156 | 3160 | 34300 | 72 | 11550 | 96 | 5350 | 42300 | |
| A 90 3_21.0 | 21.0 | 133 | 10150 | 156 | 3210 | 34300 | 67 | 12400 | 95 | 5510 | 42400 | |
| A 90 3_22.3 | 22.3 | 126 | 9850 | 143 | 9660 | 35700 | 63 | 12150 | 88 | 12200 | 43900 | |
| A 90 3_24.1 | 24.1 | 116 | 10700 | 143 | 9660 | 35500 | 58 | 13150 | 88 | 12200 | 43800 | |
| A 90 3_29.1 | 29.1 | 96 | 10550 | 117 | 9800 | 38900 | 48 | 13000 | 72 | 12400 | 47900 | |
| A 90 3_31.5 | 31.5 | 89 | 11450 | 117 | 9800 | 38800 | 44 | 14000 | 72 | 12400 | 47900 | |
| A 90 3_35.8 | 35.8 | 78 | 11150 | 100 | 9910 | 41600 | 39 | 13750 | 62 | 12500 | 51100 | |
| A 90 3_38.8 | 38.8 | 72 | 12100 | 100 | 9900 | 41500 | 36 | 14000 | 58 | 12700 | 52700 | |
| A 90 3_44.6 | 44.6 | 63 | 11800 | 85 | 9920 | 44600 | 31 | 14000 | 51 | 12700 | 56000 | |
| A 90 3_48.3 | 48.3 | 58 | 12800 | 85 | 9920 | 44500 | 29.0 | 14000 | 47 | 12800 | 58000 | |
| A 90 3_55.0 | 55.0 | 51 | 12550 | 73 | 9960 | 47500 | 25.4 | 14000 | 41 | 12800 | 61400 | |
| A 90 3_59.6 | 59.6 | 47 | 13550 | 73 | 9970 | 47500 | 23.5 | 14000 | 38 | 13000 | 63500 | |
| A 90 3_68.8 | 68.8 | 41 | 13350 | 63 | 9960 | 50900 | 20.4 | 14000 | 33 | 13000 | 67400 | |
| A 90 3_74.5 | 74.5 | 38 | 14000 | 61 | 10000 | 51700 | 18.8 | 14000 | 30 | 13100 | 69700 | |
| A 90 3_80.4 | 80.4 | 35 | 13900 | 56 | 9920 | 53500 | 17.4 | 14000 | 28 | 13000 | 71900 | |
| A 90 3_87.1 | 87.1 | 32 | 14000 | 52 | 10100 | 55500 | 16.1 | 14000 | 26 | 13200 | 74300 | |
| A 90 3_98.6 | 98.6 | 28.4 | 14000 | 46 | 9990 | 58500 | 14.2 | 14000 | 23 | 13100 | 75000 | |
| A 90 3_106.8 | 106.8 | 26.2 | 14000 | 42 | 10100 | 60600 | 13.1 | 14000 | 21 | 13300 | 75000 | |
| A 90 3_116.9 | 116.9 | 24.0 | 14000 | 39 | 10100 | 63000 | 12.0 | 14000 | 19.3 | 13200 | 75000 | |
| A 90 3_126.6 | 126.6 | 22.1 | 10650 | 27 | 10600 | 71400 | 11.1 | 13150 | 16.7 | 13400 | 75000 | |
| A 90 3_139.4 | 139.4 | 20.1 | 10350 | 24 | 10600 | 74500 | 10.0 | 12750 | 14.7 | 13400 | 75000 | |
| A 90 3_151.0 | 151.0 | 18.5 | 11200 | 24 | 10600 | 75000 | 9.3 | 13800 | 14.7 | 13400 | 75000 | |
| A 90 4_166.1 | 166.1 | 16.9 | 14000 | 28 | — | 75000 | 8.4 | 14000 | 13.9 | — | 75000 | |
| A 90 4_180.0 | 180.0 | 15.6 | 14000 | 26 | — | 75000 | 7.8 | 14000 | 12.8 | — | 75000 | |
| A 90 4_209.0 | 209.0 | 13.4 | 14000 | 22 | — | 75000 | 6.7 | 14000 | 11.0 | — | 75000 | |
| A 90 4_226.4 | 226.4 | 12.4 | 14000 | 20 | — | 75000 | 6.2 | 14000 | 10.2 | — | 75000 | |
| A 90 4_281.4 | 281.4 | 9.9 | 14000 | 16.4 | — | 75000 | 5.0 | 14000 | 8.2 | — | 75000 | |
| A 90 4_304.9 | 304.9 | 9.2 | 14000 | 15.1 | — | 75000 | 4.6 | 14000 | 7.6 | — | 75000 | |
| A 90 4_355.8 | 355.8 | 7.9 | 14000 | 13.0 | — | 75000 | 3.9 | 14000 | 6.5 | — | 75000 | |
| A 90 4_385.4 | 385.4 | 7.3 | 14000 | 12.0 | — | 75000 | 3.6 | 14000 | 6.0 | 680 | 75000 | |
| A 90 4_449.2 | 449.2 | 6.2 | 14000 | 10.3 | — | 75000 | 3.1 | 14000 | 5.1 | — | 75000 | |
| A 90 4_486.6 | 486.6 | 5.8 | 14000 | 9.5 | — | 75000 | 2.9 | 14000 | 4.7 | 950 | 75000 | |
| A 90 4_555.3 | 555.3 | 5.0 | 14000 | 8.3 | — | 75000 | 2.5 | 14000 | 4.2 | 740 | 75000 | |
| A 90 4_601.6 | 601.6 | 4.7 | 14000 | 7.7 | — | 75000 | 2.3 | 14000 | 3.8 | 1200 | 75000 | |
| A 90 4_707.9 | 707.9 | 4.0 | 14000 | 6.5 | — | 75000 | 2.0 | 14000 | 3.3 | 1050 | 75000 | |
| A 90 4_766.9 | 766.9 | 3.7 | 14000 | 6.0 | — | 75000 | 1.8 | 14000 | 3.0 | 1490 | 75000 | |
| A 90 4_865.1 | 865.1 | 3.2 | 14000 | 5.3 | — | 75000 | 1.6 | 14000 | 2.7 | 1170 | 75000 | |
| A 90 4_937.2 | 937.2 | 3.0 | 14000 | 4.9 | — | 75000 | 1.5 | 14000 | 2.5 | 1590 | 75000 | |
| A 90 4_1025 | 1025 | 2.7 | 14000 | 4.5 | — | 75000 | 1.4 | 14000 | 2.2 | 1330 | 75000 | |
| A 90 4_1111 | 1111 | 2.5 | 14000 | 4.2 | — | 75000 | 1.3 | 14000 | 2.1 | 1740 | 75000 | |
| A 90 4_1222 | 1222 | 2.3 | 14000 | 3.8 | — | 75000 | 1.1 | 14000 | 1.9 | 1380 | 75000 | |
| A 90 4_1324 | 1324 | 2.1 | 14000 | 3.5 | — | 75000 | 1.1 | 14000 | 1.7 | 1790 | 75000 | |
| A 90 4_1507 | 1507 | 1.9 | 14000 | 3.1 | — | 75000 | 0.93 | 14000 | 1.5 | 1440 | 75000 | |
| A 90 4_1632 | 1632 | 1.7 | 14000 | 2.8 | — | 75000 | 0.86 | 14000 | 1.4 | 1840 | 75000 | |

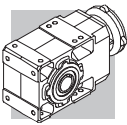
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



A 90 14000 Nm

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| A 90 3_9.7 | 9.7 | 93 | 9050 | 97 | 9800 | 42300 | 52 | 9050 | 54 | 15000 | 53700 | 315 |
| A 90 3_10.5 | 10.5 | 86 | 9800 | 97 | 9810 | 42500 | 48 | 9800 | 54 | 15000 | 54200 | |
| A 90 3_12.6 | 12.6 | 71 | 11800 | 97 | 6720 | 42100 | 40 | 11800 | 54 | 13500 | 54500 | |
| A 90 3_13.7 | 13.7 | 66 | 12750 | 96 | 6770 | 42100 | 37 | 12800 | 54 | 13500 | 54600 | |
| A 90 3_15.6 | 15.6 | 58 | 11550 | 77 | 8730 | 46700 | 32 | 11550 | 43 | 15000 | 59900 | |
| A 90 3_16.9 | 16.9 | 53 | 12500 | 77 | 8750 | 46800 | 29.6 | 12500 | 43 | 15000 | 60300 | |
| A 90 3_19.4 | 19.4 | 46 | 11550 | 62 | 9630 | 51400 | 25.8 | 11550 | 34 | 15000 | 65400 | |
| A 90 3_21.0 | 21.0 | 43 | 12400 | 61 | 9790 | 51700 | 23.8 | 12400 | 34 | 15000 | 66100 | |
| A 90 3_22.3 | 22.3 | 40 | 13850 | 64 | 14200 | 50200 | 22.5 | 14000 | 36 | 15000 | 64700 | |
| A 90 3_24.1 | 24.1 | 37 | 14000 | 60 | 14400 | 51900 | 20.7 | 14000 | 33 | 15000 | 66900 | |
| A 90 3_29.1 | 29.1 | 31 | 14000 | 50 | 14600 | 56200 | 17.2 | 14000 | 28 | 15000 | 72100 | |
| A 90 3_31.5 | 31.5 | 28.6 | 14000 | 46 | 14800 | 58400 | 15.9 | 14000 | 26 | 15000 | 74700 | |
| A 90 3_35.8 | 35.8 | 25.1 | 14000 | 40 | 14900 | 61700 | 14.0 | 14000 | 23 | 15000 | 75000 | |
| A 90 3_38.8 | 38.8 | 23.2 | 14000 | 37 | 15000 | 63900 | 12.9 | 14000 | 21 | 15000 | 75000 | |
| A 90 3_44.6 | 44.6 | 20.2 | 14000 | 33 | 15000 | 67700 | 11.2 | 14000 | 18.1 | 15000 | 75000 | |
| A 90 3_48.3 | 48.3 | 18.6 | 14000 | 30 | 15000 | 70000 | 10.4 | 14000 | 16.7 | 15000 | 75000 | |
| A 90 3_55.0 | 55.0 | 16.4 | 14000 | 26 | 15000 | 73800 | 9.1 | 14000 | 14.6 | 15000 | 75000 | |
| A 90 3_59.6 | 59.6 | 15.1 | 14000 | 24 | 15000 | 75000 | 8.4 | 14000 | 13.5 | 15000 | 75000 | |
| A 90 3_68.8 | 68.8 | 13.1 | 14000 | 21 | 15000 | 75000 | 7.3 | 14000 | 11.7 | 15000 | 75000 | |
| A 90 3_74.5 | 74.5 | 12.1 | 14000 | 19.5 | 15000 | 75000 | 6.7 | 14000 | 10.8 | 15000 | 75000 | |
| A 90 3_80.4 | 80.4 | 11.2 | 14000 | 18.0 | 15000 | 75000 | 6.2 | 14000 | 10.0 | 15000 | 75000 | |
| A 90 3_87.1 | 87.1 | 10.3 | 14000 | 16.7 | 15000 | 75000 | 5.7 | 14000 | 9.3 | 15000 | 75000 | |
| A 90 3_98.6 | 98.6 | 9.1 | 14000 | 14.7 | 15000 | 75000 | 5.1 | 14000 | 8.2 | 15000 | 75000 | |
| A 90 3_106.8 | 106.8 | 8.4 | 14000 | 13.6 | 15000 | 75000 | 4.7 | 14000 | 7.5 | 15000 | 75000 | |
| A 90 3_116.9 | 116.9 | 7.7 | 14000 | 12.4 | 15000 | 75000 | 4.3 | 14000 | 6.9 | 15000 | 75000 | |
| A 90 3_126.6 | 126.6 | 7.1 | 14000 | 11.4 | 15000 | 75000 | 3.9 | 14000 | 6.4 | 15000 | 75000 | |
| A 90 3_139.4 | 139.4 | 6.5 | 14000 | 10.4 | 15000 | 75000 | 3.6 | 14000 | 5.8 | 15000 | 75000 | |
| A 90 3_151.0 | 151.0 | 6.0 | 14000 | 9.6 | 15000 | 75000 | 3.3 | 14000 | 5.3 | 15000 | 75000 | |
| A 90 4_166.1 | 166.1 | 5.4 | 14000 | 8.9 | — | 75000 | 3.0 | 14000 | 5.0 | 700 | 75000 | |
| A 90 4_180.0 | 180.0 | 5.0 | 14000 | 8.2 | — | 75000 | 2.8 | 14000 | 4.6 | 1400 | 75000 | |
| A 90 4_209.0 | 209.0 | 4.3 | 14000 | 7.1 | — | 75000 | 2.4 | 14000 | 3.9 | 1500 | 75000 | |
| A 90 4_226.4 | 226.4 | 4.0 | 14000 | 6.5 | 500 | 75000 | 2.2 | 14000 | 3.6 | 2100 | 75000 | |
| A 90 4_281.4 | 281.4 | 3.2 | 14000 | 5.3 | 690 | 75000 | 1.8 | 14000 | 2.9 | 2300 | 75000 | |
| A 90 4_304.9 | 304.9 | 3.0 | 14000 | 4.9 | 1230 | 75000 | 1.6 | 14000 | 2.7 | 2900 | 75000 | |
| A 90 4_355.8 | 355.8 | 2.5 | 14000 | 4.2 | 1240 | 75000 | 1.4 | 14000 | 2.3 | 2900 | 75000 | |
| A 90 4_385.4 | 385.4 | 2.3 | 14000 | 3.8 | 1750 | 75000 | 1.3 | 14000 | 2.1 | 3400 | 75000 | |
| A 90 4_449.2 | 449.2 | 2.0 | 14000 | 3.3 | 1540 | 75000 | 1.1 | 14000 | 1.8 | 3200 | 75000 | |
| A 90 4_486.6 | 486.6 | 1.8 | 14000 | 3.0 | 2020 | 75000 | 1.0 | 14000 | 1.7 | 3500 | 75000 | |
| A 90 4_555.3 | 555.3 | 1.6 | 14000 | 2.7 | 1810 | 75000 | 0.90 | 14000 | 1.5 | 3500 | 75000 | |
| A 90 4_601.6 | 601.6 | 1.5 | 14000 | 2.5 | 2270 | 75000 | 0.83 | 14000 | 1.4 | 3500 | 75000 | |
| A 90 4_707.9 | 707.9 | 1.3 | 14000 | 2.1 | 2120 | 75000 | 0.71 | 14000 | 1.2 | 3500 | 75000 | |
| A 90 4_766.9 | 766.9 | 1.2 | 14000 | 1.9 | 2560 | 75000 | 0.65 | 14000 | 1.1 | 3500 | 75000 | |
| A 90 4_865.1 | 865.1 | 1.0 | 14000 | 1.7 | 2240 | 75000 | 0.58 | 14000 | 0.95 | 3500 | 75000 | |
| A 90 4_937.2 | 937.2 | 0.96 | 14000 | 1.6 | 2660 | 75000 | 0.53 | 14000 | 0.88 | 3500 | 75000 | |
| A 90 4_1025 | 1025 | 0.88 | 14000 | 1.4 | 2400 | 75000 | 0.49 | 14000 | 0.80 | 3500 | 75000 | |
| A 90 4_1111 | 1111 | 0.81 | 14000 | 1.3 | 2810 | 75000 | 0.45 | 14000 | 0.74 | 3500 | 75000 | |
| A 90 4_1222 | 1222 | 0.74 | 14000 | 1.2 | 2450 | 75000 | 0.41 | 14000 | 0.67 | 3500 | 75000 | |
| A 90 4_1324 | 1324 | 0.68 | 14000 | 1.1 | 2860 | 75000 | 0.38 | 14000 | 0.62 | 3500 | 75000 | |
| A 90 4_1507 | 1507 | 0.60 | 14000 | 0.98 | 2410 | 75000 | 0.33 | 14000 | 0.55 | 3500 | 75000 | |
| A 90 4_1632 | 1632 | 0.55 | 14000 | 0.91 | 2910 | 75000 | 0.31 | 14000 | 0.50 | 3500 | 75000 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



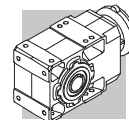
41 PREDISPOSITIONS MOTEUR

Dans les tableaux (C39) et (C40) sont indiqués les accouplements possibles en termes de dimensions.


Le choix le plus approprié du motoréducteur à utiliser doit être effectué selon les indications du paragraphe 11, ainsi qu'en fonction des tableaux de sélection, respectant en particulier la condition $S \geq f_s$.

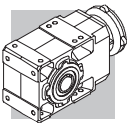
(C 39)

| | | IEC_  (IM B5) | | | | | | | | | | | |
|--------|-----|--|--------------------------------|-------------|-------------|-------------|-------------|----------------------------|----------------------------|-------------|--------------------------|-----------|-----------|
| | | P63 | P71 | P80 | P90 | P100 | P112 | P132 | P160 | P180 | P200 | P225 | P250 |
| A 05 2 | | 5.5_91.6 | 5.5_51.3 | 5.5_51.3 | | | | | | | | | |
| A 10 2 | | 5.5_91.6 | 5.5_91.6 | 5.5_65.9 | 5.5_65.9 | 5.5_65.9 | 5.5_65.9 | | | | | | |
| A 20 2 | | 7.3_92.3 ⊖(10.3) | 7.3_92.3 ⊖(10.3) | 5.4_79.9 | 5.4_79.9 | 5.4_79.9 | 5.4_79.9 | | | | | | |
| A 20 3 | | 109.2_380.9 | 109.2_380.9 | 109.2_380.9 | 109.2_380.9 | 109.2_380.9 | 109.2_380.9 | | | | | | |
| A 30 2 | | 9.3_97.5 ⊖(10.5; 13.6_16.3) | 9.3_97.5 ⊖(10.5; 13.6_16.3) | 5.4_97.5 | 5.4_97.5 | 5.4_97.5 | 5.4_97.5 | | | | | | |
| A 30 3 | | 109.1_400.8 | 109.1_400.8 | 109.1_400.8 | 109.1_400.8 | 109.1_400.8 | 109.1_400.8 | | | | | | |
| A 35 2 | | 9.3_95.6 ⊖(13.1_20.4) | 9.3_95.6 ⊖(13.1_20.4) | 5.4_95.6 | 5.4_95.6 | 5.4_95.6 | 5.4_95.6 | 5.4_11.8 | | | | | |
| A 35 3 | | 105.5_393.2 | 105.5_393.2 | 105.5_393.2 | 105.5_393.2 | 105.5_393.2 | 105.5_393.2 | | | | | | |
| A 41 2 | | 11.7_79.2 ⊖(13.8_17.8) | 11.7_79.2 ⊖(13.8_17.8) | 5.2_79.2 | 5.2_79.2 | 5.2_79.2 | 5.2_79.2 | 5.2_45.1 | | | | | |
| A 41 3 | | 92.8_376.8 | 92.8_376.8 | 92.8_376.8 | 92.8_376.8 | 92.8_376.8 | 92.8_376.8 | | | | | | |
| A 50 2 | | 20.9 | 20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | | | |
| A 50 3 | | 51.7_190.6 | 51.7_190.6 | 24.0_190.6 | 24.0_190.6 | 24.0_190.6 | 24.0_190.6 | 24.0_109.4 | 24.0_109.4 | 24.0_109.4 | | | |
| A 50 4 | i = | 211.0_778.2 | 211.0_778.2 | 211.0_778.2 | 211.0_778.2 | 211.0_778.2 | 211.0_778.2 | | | | | | |
| A 55 2 | | | | 13.1_19.2 | 13.1_19.2 | 13.1_19.2 | 13.1_19.2 | 4.9_19.2 | 4.9_19.2 | 4.9_19.2 | | | |
| A 55 3 | | 64.3_194.2 | 64.3_194.2 | 23.8_194.2 | 23.8_194.2 | 23.8_194.2 | 23.8_194.2 | 23.8_123.9 | 23.8_123.9 | 23.8_123.9 | | | |
| A 55 4 | | 208.1_793.0 | 208.1_793.0 | 208.1_793.0 | 208.1_793.0 | 208.1_793.0 | 208.1_793.0 | | | | | | |
| A 60 2 | | | | 10.3_20.6 | 10.3_20.6 | 10.3_20.6 | 10.3_20.6 | 7.9_20.6 | 7.9_20.6 | 7.9_20.6 | | | |
| A 60 3 | | 65.0_185.8 | 65.0_185.8 | 25.7_185.8 | 25.7_185.8 | 25.7_185.8 | 25.7_185.8 | 25.7_133.3 | 25.7_133.3 | 25.7_133.3 | | | |
| A 60 4 | | 208.7_755.4 | 208.7_755.4 | 208.7_755.4 | 208.7_755.4 | 208.7_755.4 | 208.7_755.4 | | | | | | |
| A 70 3 | | | | 66.9_153.7 | 66.9_153.7 | 66.9_153.7 | 66.9_153.7 | 15.4_153.7 ⊖(23.5_30.1) | 9.4_153.7 | 9.4_153.7 | 9.4_38.4 ⊖(19.7_21.3) | | |
| A 70 4 | | 292.0_1715 | 292.0_1715 | 169.8_1715 | 169.8_1715 | 169.8_1715 | 169.8_1715 | 169.8_644.6 | | | | | |
| A 80 3 | | | | 82.3_156.8 | 82.3_156.8 | 82.3_156.8 | 82.3_156.8 | 19.3_156.8 ⊖(22.6_38.5) | 12.3_156.8 ⊖(22.6_24.5) | 9.8_156.8 | 9.8_104.0 | 9.8_104.0 | |
| A 80 4 | | 354.0_1558 | 354.0_1558 | 171.3_1558 | 171.3_1558 | 171.3_1558 | 171.3_1558 | 171.3_762.1 | | | | | |
| A 90 3 | | | | 98.6_151.0 | 98.6_151.0 | 98.6_151.0 | 98.6_151.0 | 55.0_151.0 | 19.4_151.0 ⊖(22.3_38.8) | 9.7_151.0 | 9.7_126.6 | 9.7_126.6 | 9.7_126.6 |
| A 90 4 | | 449.2_1632 | 449.2_1632 | 166.1_1632 | 166.1_1632 | 166.1_1632 | 166.1_1632 | 166.1_937.2 | 166.1_937.2 | 166.1_937.2 | | | |



(C 40)

| | |  | | | | | |
|--------|-----|---|----------------------------------|-------------|-----------------------------|-----------------------------|-----------------------------|
| | | M05 | M1 | M2 | M3 | M4 | M5 |
| A 05 2 | | 5.5_91.6 | 5.5_51.3 | 5.5_65.9 | | | |
| A 10 2 | | 5.5_91.6 | 5.5_51.3 | 5.5_65.9 | 5.5_65.9 | | |
| A 20 2 | | 7.3_92.3 ⊖ (10.3) | 7.3_63.1 ⊖ (10.3) | 5.4_79.9 | 5.4_79.9 | | |
| A 20 3 | | 109.2_380.9 | 109.2_380.9 | 109.2_380.9 | 109.2_380.9 | | |
| A 30 2 | | | 9.3_76.5 ⊖ (10.5 ; 13.6_16.3) | 5.4_97.5 | 5.4_97.5 | | |
| A 30 3 | | 109.1_400.8 | 109.1_400.8 | 109.1_400.8 | 109.1_400.8 | | |
| A 35 2 | | | 9.3_95.6 ⊖ (13.1_20.4) | 5.4_95.6 | 5.4_95.6 | 5.4_11.8 | |
| A 35 3 | | 105.5_393.2 | 105.5_393.2 | 105.5_393.2 | 105.5_393.2 | | |
| A 41 2 | | | 11.7_79.2 ⊖ (13.8_17.8) | 5.2_79.2 | 5.2_79.2 | 5.2_45.1 | |
| A 41 3 | | 92.8_376.8 | 92.8_376.8 | 92.8_376.8 | 92.8_376.8 | | |
| A 50 2 | | | 20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 |
| A 50 3 | | | 51.7_190.6 | 24.0_190.6 | 24.0_190.6 | 24.0_109.4 | 24.0_109.4 |
| A 50 4 | i = | | 211.0_778.2 | 211.0_778.2 | 211.0_778.2 | | |
| A 55 2 | | | | 13.1_19.2 | 13.1_19.2 | 4.9_19.2 | 4.9_19.2 |
| A 55 3 | | | 64.3_194.2 | 23.8_194.2 | 23.8_194.2 | 23.8_123.9 | 23.8_123.9 |
| A 55 4 | | | 208.1_793.0 | 208.1_793.0 | 208.1_793.0 | | |
| A 60 2 | | | | 10.3_20.6 | 10.3_20.6 | 7.9_20.6 | 7.9_20.6 |
| A 60 3 | | | | 25.7_185.8 | 25.7_185.8 | 25.7_133.3 | 25.7_133.3 |
| A 60 4 | | | 208.7_755.4 | 208.7_755.4 | 208.7_755.4 | | |
| A 70 3 | | | | 66.9_153.7 | 66.9_153.7 | 15.4_153.7 ⊖ (23.5_30.1) | 15.4_153.7 ⊖ (23.5_30.1) |
| A 70 4 | | | 292.0_1715 | 169.8_1715 | 169.8_1715 | 169.8_644.6 | |
| A 80 3 | | | | | 82.3_156.8 ⊖ (22.6_38.5) | 19.3_156.8 ⊖ (22.6_38.5) | 19.3_156.8 ⊖ (22.6_38.5) |
| A 80 4 | | | 354.0_1558 | 171.3_1558 | 171.3_1558 | 171.3_762.1 | |
| A 90 3 | | | | | 98.6_151.0 | 55.0_151.0 | 55.0_151.0 |
| A 90 4 | | | 449.2_1632 | 166.1_1632 | 166.1_1632 | 166.1_937.2 | |



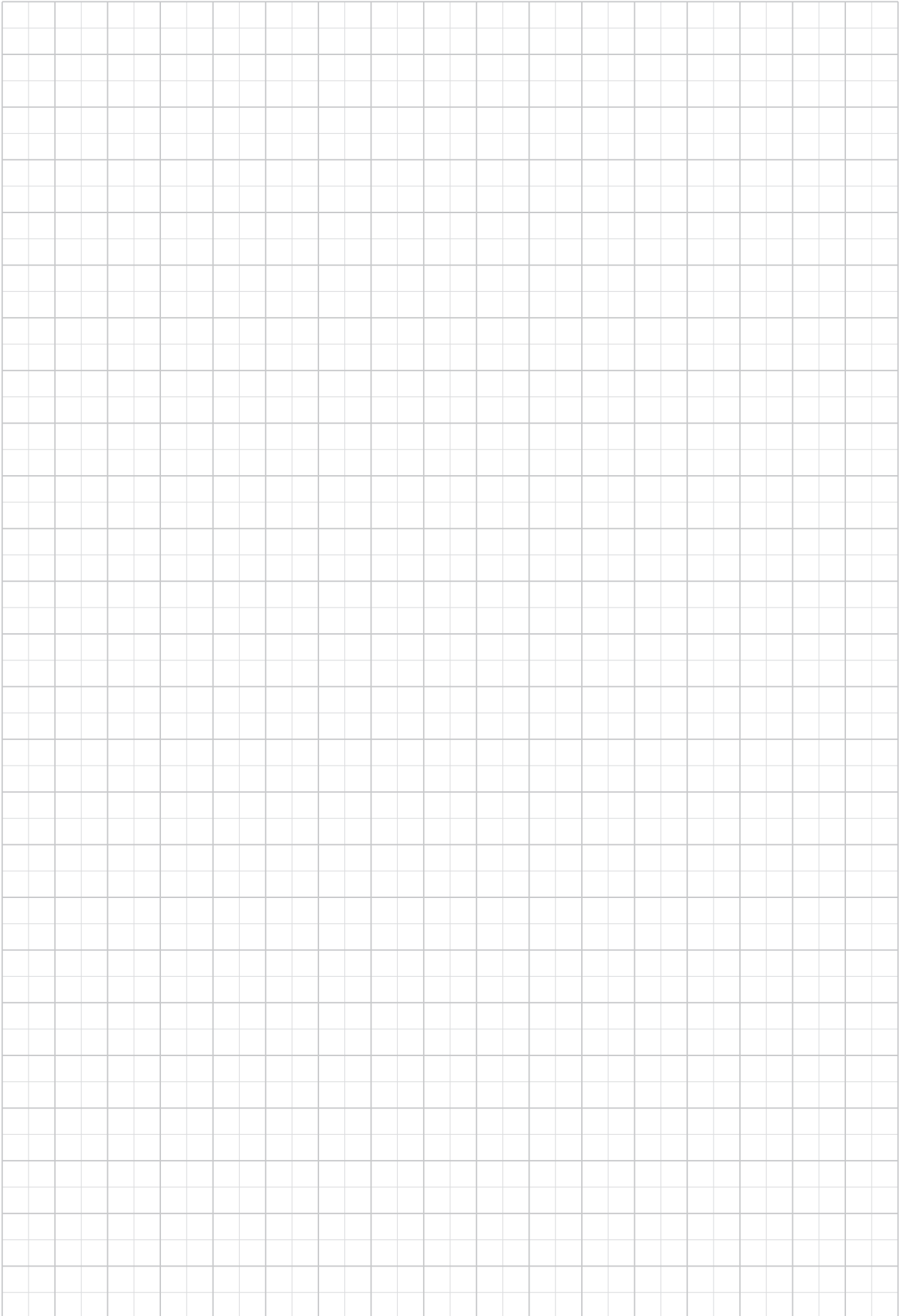
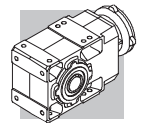
Sont disponibles des prédispositions pour l'accouplement des réducteurs A05...A60 avec les servo-moteurs les plus répandus. Les dimensions des brides sont indiquées dans les pages des dimensions de chaque réducteur. Le code **SK** indique un arbre d'entrée muni d'une rainure de clavette ; le code **SC** indique un arbre d'entrée muni d'une frette de serrage (fournie).

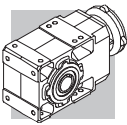
(C 41)

| | | SERVO INPUT | | | | | | | |
|--------|-----|-------------|----------------------------------|----------------------------------|----------------------------------|-------|----------------------------|-------------|--|
| | | SK40A | SK60A | SK60B | SK80A | SK80B | SK80C | | |
| | | SC40A | SC60A | SC60B | SC80A | SC80B | SC80C | | |
| A 05 2 | i = | 5.5_91.6 | 5.5_91.6 | 5.5_51.3 | 5.5_51.3 | | | | |
| A 10 2 | | | 5.5_91.6 | 5.5_51.3 | 5.5_51.3 | | | 5.5_65.9 | |
| A 20 2 | | | 7.3_92.3 ⊖ (10.3) | 7.3_63.1 ⊖ (10.3) | 7.3_63.1 ⊖ (10.3) | | | 5.4_79.9 | |
| A 20 3 | | | 109.2_380.9 | 109.2_380.9 | 109.2_380.9 | | | 109.2_380.9 | |
| A 30 2 | | | 9.3_97.5 ⊖ (10.5 ; 13.6_16.3) | 9.3_76.5 ⊖ (10.5 ; 13.6_16.3) | 9.3_76.5 ⊖ (10.5 ; 13.6_16.3) | | | 5.4_97.5 | |
| A 30 3 | | | 109.1_400.8 | 109.1_400.8 | 109.1_400.8 | | | 109.1_400.8 | |
| A 35 2 | | | 9.3_95.6 ⊖ (13.1_20.4) | 9.3_95.6 ⊖ (13.1_20.4) | 9.3_95.6 ⊖ (13.1_20.4) | | | 5.4_95.6 | |
| A 35 3 | | | 105.5_393.2 | 105.5_393.2 | 105.5_393.2 | | | 105.5_393.2 | |
| A 41 2 | | | | | | | 11.7_79.2 ⊖ (13.8_17.8) | 5.2_79.2 | |
| A 41 3 | | | 92.8_376.8 | 92.8_376.8 | 92.8_376.8 | | | 92.8_376.8 | |
| A 50 2 | | | | | | | 20.9 | 7.7_20.9 | |
| A 50 3 | | | | | | | 51.7_190.6 | 24.0_190.6 | |
| A 50 4 | | | | | | | | 211.0_778.2 | |
| A 55 2 | | | | | | | | 13.1_19.2 | |
| A 55 3 | | | | | | | 64.3_194.2 | 23.8_194.2 | |
| A 55 4 | | | | | | | | 208.1_793.0 | |
| A 60 2 | | | | | | | | 10.3_20.6 | |
| A 60 3 | | | | | | | | 25.7_185.8 | |
| A 60 4 | | | | | | | 208.7_755.4 | 208.7_755.4 | |

(C 42)

| | | SERVO INPUT | | | | | | | | | |
|--------|-----|----------------------------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|--|
| | | SK95A | SK95B | SK95C | SK110A | SK110B | SK130A | SK130B | SK180A | SK180B | |
| | | SC95A | SC95B | SC95C | SC110A | SC110B | SC130A | SC130B | SC180A | SC180B | |
| A 10 2 | i = | 5.5_51.3 | 5.5_65.9 | 5.5_65.9 | 5.5_65.9 | 5.5_65.9 | | | | | |
| A 20 2 | | 7.3_63.1 ⊖ (10.3) | 5.4_79.9 | 5.4_79.9 | 5.4_79.9 | 5.4_79.9 | | | | | |
| A 20 3 | | 109.2_380.9 | 109.2_380.9 | 109.2_380.9 | 109.2_380.9 | 109.2_380.9 | | | | | |
| A 30 2 | | 9.3_76.5 ⊖ (10.5 ; 13.6_16.3) | 5.4_97.5 | 5.4_97.5 | 5.4_97.5 | 5.4_97.5 | 5.4_97.5 | | | | |
| A 30 3 | | 109.1_400.8 | 109.1_400.8 | 109.1_400.8 | 109.1_400.8 | 109.1_400.8 | | | | | |
| A 35 2 | | 9.3_95.6 ⊖ (13.1_20.4) | 5.4_95.6 | 5.4_95.6 | 5.4_95.6 | 5.4_95.6 | 5.4_95.6 | | | | |
| A 35 3 | | 105.5_393.2 | 105.5_393.2 | 105.5_393.2 | 105.5_393.2 | 105.5_393.2 | | | | | |
| A 41 2 | | 11.7_79.2 ⊖ (13.8_17.8) | 5.2_79.2 | 5.2_79.2 | 5.2_79.2 | 5.2_79.2 | 5.2_79.2 | 5.2_45.1 | 5.2_45.1 | 5.2_45.1 | |
| A 41 3 | | 92.8_376.8 | 92.8_376.8 | 92.8_376.8 | 92.8_376.8 | 92.8_376.8 | | | | | |
| A 50 2 | | 20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | 7.7_20.9 | |
| A 50 3 | | 51.7_190.6 | 24.0_190.6 | 24.0_190.6 | 24.0_190.6 | 24.0_190.6 | 24.0_190.6 | 24.0_109.4 | 24.0_109.4 | 24.0_109.4 | |
| A 50 4 | | 211.0_778.2 | 211.0_778.2 | 211.0_778.2 | 211.0_778.2 | 211.0_778.2 | 211.0_778.2 | | | | |
| A 55 2 | | | 13.1_19.2 | 13.1_19.2 | 13.1_19.2 | 13.1_19.2 | 13.1_19.2 | 4.9_19.2 | 4.9_19.2 | 4.9_19.2 | |
| A 55 3 | | | 64.3_194.2 | 23.8_194.2 | 23.8_194.2 | 23.8_194.2 | 23.8_194.2 | 23.8_123.9 | 23.8_123.9 | 23.8_123.9 | |
| A 55 4 | | | 208.1_793.0 | 208.1_793.0 | 208.1_793.0 | 208.1_793.0 | 208.1_793.0 | | | | |
| A 60 2 | | | 10.3_20.6 | 10.3_20.6 | 10.3_20.6 | 10.3_20.6 | 10.3_20.6 | 7.9_20.6 | 7.9_20.6 | 7.9_20.6 | |
| A 60 3 | | | 65.0_185.8 | 25.7_185.8 | 25.7_185.8 | 25.7_185.8 | 25.7_185.8 | 25.7_133.3 | 25.7_133.3 | 25.7_133.3 | |
| A 60 4 | | | 208.7_755.4 | 208.7_755.4 | 208.7_755.4 | 208.7_755.4 | 208.7_755.4 | | | | |



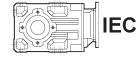


42 MOMENT D'INERTIE

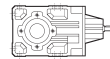
Les tableaux suivants indiquent les valeurs du moment d'inertie J_r [kgm²] au niveau de l'arbre rapide du réducteur ; pour une plus grande facilité de lecture, nous vous prions de noter les définitions des symboles employés.



Les valeurs liées à ces symboles sont à assigner au réducteur compact sans moteur. Dans ce cas, afin d'avoir le moment d'inertie total du motoréducteur, on devra additionner la valeur correspondant au réducteur compact, à celle du moteur à assembler (donnée que l'on peut repérer dans les tableaux des caractéristiques techniques des moteurs électriques).



Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour accouplement moteur seulement (taille IEC...).



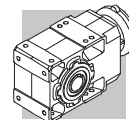
Les valeurs liées au réducteur sont assignées à ce symbole




Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour liaison a servomoteur.

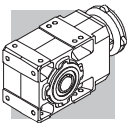
A 05

| | i | J (•10 ⁻⁴) [kgm ²] | | | | |
|-------------|------|--|------|------|------|---|
| | | | | | | |
| | | | 63 | 71 | 80 | |
| A 05 2_5.5 | 5.5 | 0.72 | 0.99 | 1.0 | 1.4 | — |
| A 05 2_6.3 | 6.3 | 0.56 | 0.83 | 0.86 | 1.2 | — |
| A 05 2_7.2 | 7.2 | 0.48 | 0.74 | 0.77 | 1.1 | — |
| A 05 2_8.5 | 8.5 | 0.36 | 0.63 | 0.65 | 1.0 | — |
| A 05 2_9.6 | 9.6 | 0.29 | 0.55 | 0.58 | 0.92 | — |
| A 05 2_10.6 | 10.6 | 0.50 | 0.77 | 0.80 | 1.1 | — |
| A 05 2_12.3 | 12.3 | 0.18 | 0.45 | 0.48 | 0.82 | — |
| A 05 2_13.9 | 13.9 | 0.35 | 0.62 | 0.65 | 0.99 | — |
| A 05 2_16.4 | 16.4 | 0.27 | 0.54 | 0.57 | 0.91 | — |
| A 05 2_18.6 | 18.6 | 0.22 | 0.49 | 0.51 | 0.86 | — |
| A 05 2_21.4 | 21.4 | 0.16 | 0.43 | 0.46 | 0.80 | — |
| A 05 2_23.8 | 23.8 | 0.14 | 0.41 | 0.43 | 0.78 | — |
| A 05 2_25.5 | 25.5 | 0.13 | 0.39 | 0.42 | 0.76 | — |
| A 05 2_28.6 | 28.6 | 0.11 | 0.38 | 0.40 | 0.75 | — |
| A 05 2_32.2 | 32.2 | 0.09 | 0.36 | 0.39 | 0.73 | — |
| A 05 2_35.1 | 35.1 | 0.08 | 0.35 | 0.37 | 0.72 | — |
| A 05 2_40.9 | 40.9 | 0.07 | 0.33 | 0.36 | 0.70 | — |
| A 05 2_45.4 | 45.4 | 0.05 | 0.32 | 0.35 | 0.69 | — |
| A 05 2_51.3 | 51.3 | 0.04 | 0.31 | 0.34 | 0.68 | — |
| A 05 2_58.6 | 58.6 | 0.04 | 0.31 | — | — | — |
| A 05 2_65.9 | 65.9 | 0.03 | 0.30 | — | — | — |
| A 05 2_76.4 | 76.4 | 0.02 | 0.29 | — | — | — |
| A 05 2_91.6 | 91.6 | 0.02 | 0.28 | — | — | — |



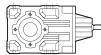


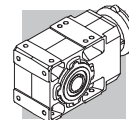
A 05

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | |
|-------------|------|---|------|------|------|------------|------|
| | |  SERVO | | | | | |
| | | 40A | | 60A | | 60B 80A | |
| i | | SK | SC | SK | SC | SK | SC |
| A 05 2_5.5 | 5.5 | 0.89 | 1.1 | 0.99 | 1.3 | 1.0 | 1.4 |
| A 05 2_6.3 | 6.3 | 0.73 | 0.89 | 0.83 | 1.1 | 0.86 | 1.3 |
| A 05 2_7.2 | 7.2 | 0.65 | 0.81 | 0.74 | 1.0 | 0.77 | 1.2 |
| A 05 2_8.5 | 8.5 | 0.53 | 0.69 | 0.63 | 0.89 | 0.65 | 1.1 |
| A 05 2_9.6 | 9.6 | 0.46 | 0.62 | 0.55 | 0.81 | 0.58 | 1.0 |
| A 05 2_10.6 | 10.6 | 0.67 | 0.83 | 0.77 | 1.0 | 0.80 | 1.2 |
| A 05 2_12.3 | 12.3 | 0.35 | 0.51 | 0.45 | 0.71 | 0.48 | 0.92 |
| A 05 2_13.9 | 13.9 | 0.52 | 0.68 | 0.62 | 0.88 | 0.65 | 1.1 |
| A 05 2_16.4 | 16.4 | 0.44 | 0.60 | 0.54 | 0.80 | 0.57 | 1.0 |
| A 05 2_18.6 | 18.6 | 0.39 | 0.55 | 0.49 | 0.75 | 0.51 | 0.95 |
| A 05 2_21.4 | 21.4 | 0.33 | 0.49 | 0.43 | 0.69 | 0.46 | 0.90 |
| A 05 2_23.8 | 23.8 | 0.31 | 0.47 | 0.41 | 0.67 | 0.43 | 0.87 |
| A 05 2_25.5 | 25.5 | 0.30 | 0.46 | 0.39 | 0.65 | 0.42 | 0.86 |
| A 05 2_28.6 | 28.6 | 0.28 | 0.44 | 0.38 | 0.64 | 0.40 | 0.84 |
| A 05 2_32.2 | 32.2 | 0.26 | 0.42 | 0.36 | 0.62 | 0.39 | 0.83 |
| A 05 2_35.1 | 35.1 | 0.25 | 0.41 | 0.35 | 0.61 | 0.37 | 0.81 |
| A 05 2_40.9 | 40.9 | 0.24 | 0.40 | 0.33 | 0.59 | 0.36 | 0.80 |
| A 05 2_45.4 | 45.4 | 0.22 | 0.38 | 0.32 | 0.58 | 0.35 | 0.79 |
| A 05 2_51.3 | 51.3 | 0.21 | 0.37 | 0.31 | 0.57 | 0.34 | 0.78 |
| A 05 2_58.6 | 58.6 | 0.21 | 0.37 | 0.31 | 0.57 | — | — |
| A 05 2_65.9 | 65.9 | 0.20 | 0.36 | 0.30 | 0.56 | — | — |
| A 05 2_76.4 | 76.4 | 0.19 | 0.35 | 0.29 | 0.55 | — | — |
| A 05 2_91.6 | 91.6 | 0.19 | 0.35 | 0.28 | 0.54 | — | — |




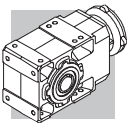
A 10

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | |
|--------------------|------|---|---|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | |
| A 10 2_5.5 | 5.5 | 1.0 | 2.5 | 2.5 | 3.9 | 3.8 | 5.1 | 5.1 | 1.8 |
| A 10 2_6.3 | 6.3 | 0.80 | 2.3 | 2.3 | 3.7 | 3.6 | 4.9 | 4.9 | 1.6 |
| A 10 2_7.2 | 7.2 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 1.5 |
| A 10 2_8.5 | 8.5 | 0.45 | 1.9 | 1.9 | 3.3 | 3.1 | 4.5 | 4.5 | 1.4 |
| A 10 2_9.6 | 9.6 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 1.3 |
| A 10 2_10.6 | 10.6 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | 1.4 |
| A 10 2_12.3 | 12.3 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 1.1 |
| A 10 2_13.9 | 13.9 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.6 | 4.6 | 1.2 |
| A 10 2_16.4 | 16.4 | 0.25 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 1.1 |
| A 10 2_18.6 | 18.6 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 1.0 |
| A 10 2_21.4 | 21.4 | 0.15 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 1.0 |
| A 10 2_23.8 | 23.8 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 1.0 |
| A 10 2_25.5 | 25.5 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 1.0 |
| A 10 2_28.6 | 28.6 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 10 2_32.2 | 32.2 | 0.08 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 10 2_35.1 | 35.1 | 0.07 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 10 2_40.9 | 40.9 | 0.06 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 10 2_45.4 | 45.4 | 0.05 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 10 2_51.3 | 51.3 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 10 2_58.6 | 58.6 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 10 2_65.9 | 65.9 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 10 2_76.4 | 76.4 | 0.02 | 1.5 | 1.5 | — | — | — | — | 0.90 |
| A 10 2_91.6 | 91.6 | 0.01 | 1.5 | 1.5 | — | — | — | — | 0.90 |


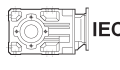
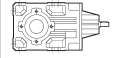


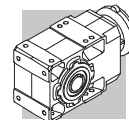
A 10

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|-------------|------|--|------|------------|------|-----|-----|--------------------|-----|-------------|-----|
| | |  SERVO | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| A 10 2_5.5 | 5.5 | 1.3 | 1.5 | 1.3 | 1.7 | 3.8 | 4.3 | 3.9 | 4.4 | 3.8 | 4.8 |
| A 10 2_6.3 | 6.3 | 1.1 | 1.3 | 1.1 | 1.5 | 3.6 | 4.1 | 3.7 | 4.2 | 3.6 | 4.6 |
| A 10 2_7.2 | 7.2 | 0.87 | 1.1 | 0.89 | 1.3 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 |
| A 10 2_8.5 | 8.5 | 0.72 | 0.98 | 0.74 | 1.2 | 3.3 | 3.7 | 3.3 | 3.8 | 3.1 | 4.1 |
| A 10 2_9.6 | 9.6 | 0.57 | 0.83 | 0.59 | 1.0 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 |
| A 10 2_10.6 | 10.6 | 0.77 | 1.0 | 0.79 | 1.2 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 |
| A 10 2_12.3 | 12.3 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 |
| A 10 2_13.9 | 13.9 | 0.57 | 0.83 | 0.59 | 1.0 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 |
| A 10 2_16.4 | 16.4 | 0.52 | 0.78 | 0.54 | 0.98 | 3.1 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 |
| A 10 2_18.6 | 18.6 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 |
| A 10 2_21.4 | 21.4 | 0.42 | 0.68 | 0.44 | 0.88 | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 10 2_23.8 | 23.8 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 10 2_25.5 | 25.5 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 10 2_28.6 | 28.6 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 10 2_32.2 | 32.2 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 10 2_35.1 | 35.1 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 10 2_40.9 | 40.9 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 10 2_45.4 | 45.4 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 10 2_51.3 | 51.3 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 10 2_58.6 | 58.6 | 0.30 | 0.56 | — | — | — | — | 2.9 | 3.4 | 2.8 | 3.8 |
| A 10 2_65.9 | 65.9 | 0.29 | 0.55 | — | — | — | — | 2.9 | 3.4 | 2.8 | 3.8 |
| A 10 2_76.4 | 76.4 | 0.29 | 0.55 | — | — | — | — | — | — | — | — |
| A 10 2_91.6 | 91.6 | 0.28 | 0.54 | — | — | — | — | — | — | — | — |




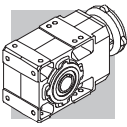
A 20

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | |
| A 20 2_5.4 | 5.4 | 2.4 | — | — | 5.3 | 5.2 | 6.5 | 6.5 | 4.3 |
| A 20 2_6.5 | 6.5 | 1.9 | — | — | 4.8 | 4.7 | 6.0 | 6.0 | 3.8 |
| A 20 2_7.3 | 7.3 | 1.4 | 2.9 | 2.9 | 4.3 | 4.2 | 5.5 | 5.5 | 3.3 |
| A 20 2_8.4 | 8.4 | 1.1 | 2.6 | 2.6 | 4.0 | 3.9 | 5.2 | 5.2 | 3.0 |
| A 20 2_9.4 | 9.4 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 5.0 | 2.8 |
| A 20 2_10.3 | 10.3 | 1.2 | — | — | 4.1 | 4.0 | 5.3 | 5.3 | 3.0 |
| A 20 2_12.0 | 12.0 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | 2.4 |
| A 20 2_14.1 | 14.1 | 0.70 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | 2.6 |
| A 20 2_16.2 | 16.2 | 0.55 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | 2.5 |
| A 20 2_18.1 | 18.1 | 0.40 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 2.4 |
| A 20 2_21.2 | 21.2 | 0.35 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 2.3 |
| A 20 2_23.1 | 23.1 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 2.2 |
| A 20 2_26.5 | 26.5 | 0.25 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 2.1 |
| A 20 2_29.2 | 29.2 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 2.1 |
| A 20 2_31.3 | 31.3 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 2.1 |
| A 20 2_35.4 | 35.4 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 2.1 |
| A 20 2_39.6 | 39.6 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.0 |
| A 20 2_43.2 | 43.2 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.0 |
| A 20 2_48.3 | 48.3 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.0 |
| A 20 2_53.7 | 53.7 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.0 |
| A 20 2_63.1 | 63.1 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.0 |
| A 20 2_71.0 | 71.0 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 2.0 |
| A 20 2_79.9 | 79.9 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 2.0 |
| A 20 2_92.3 | 92.3 | 0.02 | 1.5 | 1.5 | — | — | — | — | 2.0 |
| A 20 3_109.2 | 109.2 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_120.5 | 120.5 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_129.1 | 129.1 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_146.1 | 146.1 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_163.4 | 163.4 | 0.01 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_178.3 | 178.3 | 0.01 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_199.2 | 199.2 | 0.01 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_221.3 | 221.3 | 0.01 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_260.5 | 260.5 | 0.01 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_292.8 | 292.8 | 0.01 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_329.4 | 329.4 | 0.01 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| A 20 3_380.9 | 380.9 | 0.01 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |



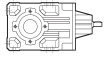


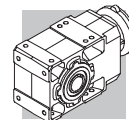
A 20

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|--------------|-------|--|------|------------|------|-----|-----|--------------------|-----|-------------|-----|
| | |  SERVO | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| A 20 2_5.4 | 5.4 | — | — | — | — | — | — | 5.3 | 5.8 | 5.2 | 6.2 |
| A 20 2_6.5 | 6.5 | — | — | — | — | — | — | 4.8 | 5.3 | 4.7 | 5.7 |
| A 20 2_7.3 | 7.3 | 1.7 | 1.9 | 1.7 | 2.1 | 4.2 | 4.7 | 4.3 | 4.8 | 4.2 | 5.2 |
| A 20 2_8.4 | 8.4 | 1.4 | 1.6 | 1.4 | 1.8 | 3.9 | 4.6 | 4.0 | 4.5 | 3.9 | 4.9 |
| A 20 2_9.4 | 9.4 | 1.2 | 1.4 | 1.2 | 1.6 | 3.7 | 4.2 | 3.8 | 4.3 | 3.7 | 4.7 |
| A 20 2_10.3 | 10.3 | — | — | — | — | — | — | 4.1 | 4.6 | 4.0 | 5.0 |
| A 20 2_12.0 | 12.0 | 0.77 | 1.0 | 0.79 | 1.2 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 |
| A 20 2_14.1 | 14.1 | 0.97 | 1.2 | 0.99 | 1.4 | 3.5 | 4.0 | 3.6 | 4.1 | 3.5 | 4.5 |
| A 20 2_16.2 | 16.2 | 0.82 | 1.1 | 0.84 | 1.3 | 3.4 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 |
| A 20 2_18.1 | 18.1 | 0.67 | 0.93 | 0.69 | 1.1 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 |
| A 20 2_21.2 | 21.2 | 0.62 | 0.88 | 0.64 | 1.1 | 3.2 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 |
| A 20 2_23.1 | 23.1 | 0.57 | 0.83 | 0.59 | 1.0 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 |
| A 20 2_26.5 | 26.5 | 0.52 | 0.78 | 0.54 | 0.98 | 3.1 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 |
| A 20 2_29.2 | 29.2 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 |
| A 20 2_31.3 | 31.3 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 |
| A 20 2_35.4 | 35.4 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 |
| A 20 2_39.6 | 39.6 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 20 2_43.2 | 43.2 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 20 2_48.3 | 48.3 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 20 2_53.7 | 53.7 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 20 2_63.1 | 63.1 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| A 20 2_71.0 | 71.0 | 0.32 | 0.58 | — | — | — | — | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 2_79.9 | 79.9 | 0.30 | 0.56 | — | — | — | — | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 2_92.3 | 92.3 | 0.29 | 0.55 | — | — | — | — | — | — | — | — |
| A 20 3_109.2 | 109.2 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_120.5 | 120.5 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_129.1 | 129.1 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_146.1 | 146.1 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_163.4 | 163.4 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_178.3 | 178.3 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_199.2 | 199.2 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_221.3 | 221.3 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_260.5 | 260.5 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_292.8 | 292.8 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_329.4 | 329.4 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| A 20 3_380.9 | 380.9 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |




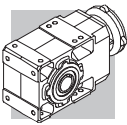
A 30

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | |
|---------------------|-------|---|---|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | |
| A 30 2_5.4 | 5.4 | 4.5 | — | — | 7.4 | 7.3 | 8.6 | 8.6 | 6.9 |
| A 30 2_6.4 | 6.4 | 3.4 | — | — | 6.6 | 6.6 | 7.8 | 7.8 | 6.0 |
| A 30 2_7.0 | 7.0 | 2.9 | — | — | 5.8 | 5.8 | 7.0 | 7.0 | 5.2 |
| A 30 2_8.5 | 8.5 | 2.2 | — | — | 5.1 | 5.1 | 6.3 | 6.3 | 4.6 |
| A 30 2_9.3 | 9.3 | 1.6 | 3.1 | 3.1 | 4.5 | 4.4 | 5.7 | 5.7 | 4.0 |
| A 30 2_10.5 | 10.5 | 2.3 | — | — | 5.2 | 5.1 | 6.4 | 6.4 | 4.6 |
| A 30 2_11.8 | 11.8 | 1.1 | 2.6 | 2.6 | 4.0 | 3.9 | 5.2 | 5.2 | 3.4 |
| A 30 2_13.6 | 13.6 | 1.5 | — | — | 4.4 | 4.3 | 5.6 | 5.6 | 3.9 |
| A 30 2_16.3 | 16.3 | 1.2 | — | — | 4.1 | 4.0 | 5.3 | 5.3 | 3.5 |
| A 30 2_18.0 | 18.0 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 5.0 | 3.2 |
| A 30 2_20.5 | 20.5 | 0.70 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | 3.1 |
| A 30 2_22.8 | 22.8 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 3.0 |
| A 30 2_26.5 | 26.5 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | 2.9 |
| A 30 2_29.3 | 29.3 | 0.40 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 2.8 |
| A 30 2_33.4 | 33.4 | 0.35 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 2.7 |
| A 30 2_36.6 | 36.6 | 0.30 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 2.7 |
| A 30 2_39.3 | 39.3 | 0.25 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 2.6 |
| A 30 2_43.4 | 43.4 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 2.6 |
| A 30 2_48.3 | 48.3 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 2.6 |
| A 30 2_52.7 | 52.7 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 2.5 |
| A 30 2_59.4 | 59.4 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.5 |
| A 30 2_66.0 | 66.0 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.5 |
| A 30 2_76.5 | 76.5 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.5 |
| A 30 2_86.7 | 86.7 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.5 |
| A 30 2_97.5 | 97.5 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.4 |
| A 30 3_109.1 | 109.1 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_120.5 | 120.5 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_137.4 | 137.4 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_150.7 | 150.7 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_161.4 | 161.4 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_178.5 | 178.5 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_198.5 | 198.5 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_216.6 | 216.6 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_244.3 | 244.3 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_271.5 | 271.5 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_314.5 | 314.5 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_356.3 | 356.3 | 0.06 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.90 |
| A 30 3_400.8 | 400.8 | 0.04 | 1.5 | 1.6 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |



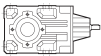


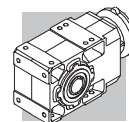
A 30

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | |
|--------------|-------|--|------|------------|------|-----|-----|--------------------|-----|-------------|-----|------|-----|
| | |  SERVO | | | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | | 130A | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| A 30 2_5.4 | 5.4 | — | — | — | — | — | — | 7.4 | 7.9 | 7.3 | 8.3 | 7.3 | 8.3 |
| A 30 2_6.4 | 6.4 | — | — | — | — | — | — | 6.6 | 7.1 | 6.6 | 7.6 | 6.6 | 7.6 |
| A 30 2_7.0 | 7.0 | — | — | — | — | — | — | 5.8 | 6.3 | 5.8 | 6.8 | 5.8 | 6.8 |
| A 30 2_8.5 | 8.5 | — | — | — | — | — | — | 5.1 | 5.6 | 5.1 | 6.1 | 5.1 | 6.1 |
| A 30 2_9.3 | 9.3 | 1.9 | 2.1 | 1.9 | 2.3 | 4.4 | 4.9 | 4.5 | 5.0 | 4.4 | 5.4 | 4.4 | 5.4 |
| A 30 2_10.5 | 10.5 | — | — | — | — | — | — | 5.2 | 5.7 | 5.1 | 6.1 | 5.1 | 6.1 |
| A 30 2_11.8 | 11.8 | 1.4 | 1.6 | 1.4 | 1.8 | 3.9 | 4.4 | 4.0 | 4.5 | 3.9 | 4.9 | 3.9 | 4.9 |
| A 30 2_13.6 | 13.6 | — | — | — | — | — | — | 4.4 | 4.9 | 4.3 | 5.3 | 4.3 | 5.3 |
| A 30 2_16.3 | 16.3 | — | — | — | — | — | — | 4.1 | 4.6 | 4.0 | 5.0 | 4.0 | 5.0 |
| A 30 2_18.0 | 18.0 | 1.2 | 1.4 | 1.2 | 1.6 | 3.7 | 4.2 | 3.8 | 4.3 | 3.7 | 4.7 | 3.7 | 4.7 |
| A 30 2_20.5 | 20.5 | 0.97 | 1.2 | 0.99 | 1.4 | 3.5 | 4.0 | 3.6 | 4.1 | 3.5 | 4.5 | 3.5 | 4.5 |
| A 30 2_22.8 | 22.8 | 0.87 | 1.1 | 0.89 | 1.3 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 |
| A 30 2_26.5 | 26.5 | 0.77 | 1.0 | 0.79 | 1.2 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | 3.3 | 4.3 |
| A 30 2_29.3 | 29.3 | 0.67 | 0.93 | 0.69 | 1.1 | 3.2 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 |
| A 30 2_33.4 | 33.4 | 0.62 | 0.88 | 0.64 | 1.1 | 3.2 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 |
| A 30 2_36.6 | 36.6 | 0.57 | 0.83 | 0.59 | 1.0 | 3.1 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 |
| A 30 2_39.3 | 39.3 | 0.52 | 0.78 | 0.54 | 0.98 | 3.1 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| A 30 2_43.4 | 43.4 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| A 30 2_48.3 | 48.3 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| A 30 2_52.7 | 52.7 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| A 30 2_59.4 | 59.4 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| A 30 2_66.0 | 66.0 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| A 30 2_76.5 | 76.5 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| A 30 2_86.7 | 86.7 | 0.37 | 0.63 | — | — | — | — | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| A 30 2_97.5 | 97.5 | 0.37 | 0.63 | — | — | — | — | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| A 30 3_109.1 | 109.1 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_120.5 | 120.5 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_137.4 | 137.4 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_150.7 | 150.7 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_161.4 | 161.4 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_178.5 | 178.5 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_198.5 | 198.5 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_216.6 | 216.6 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_244.3 | 244.3 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_271.5 | 271.5 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_314.5 | 314.5 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_356.3 | 356.3 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 3.0 | 3.5 | 2.9 | 3.9 | — | — |
| A 30 3_400.8 | 400.8 | 0.31 | 0.57 | 0.33 | 0.77 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |




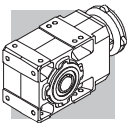
A 35

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | | |
|--------------|-------|---|---|------|-----|-----|-----|-----|---|------|
| | |  |  IEC | | | | | |  | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | | 132 |
| A 35 2_5.4 | 5.4 | 7.3 | — | — | 10 | 9.9 | 11 | 11 | 24 | 9.4 |
| A 35 2_6.4 | 6.4 | 5.4 | — | — | 8.1 | 8.0 | 9.2 | 9.2 | 22 | 7.4 |
| A 35 2_7.0 | 7.0 | 4.6 | — | — | 7.3 | 7.2 | 8.4 | 8.4 | 21 | 6.6 |
| A 35 2_8.5 | 8.5 | 3.3 | — | — | 6.1 | 5.9 | 7.1 | 7.1 | 20 | 5.4 |
| A 35 2_9.3 | 9.3 | 2.8 | 3.5 | 3.5 | 5.6 | 5.4 | 6.6 | 6.6 | 19 | 4.9 |
| A 35 2_10.6 | 10.6 | 2.1 | 2.9 | 2.9 | 4.9 | 4.8 | 6.0 | 6.0 | 19 | 4.2 |
| A 35 2_11.8 | 11.8 | 1.8 | 2.5 | 2.5 | 4.6 | 4.4 | 5.7 | 5.7 | 18 | 3.9 |
| A 35 2_13.1 | 13.1 | 3.0 | — | — | 5.7 | 5.6 | 6.8 | 6.8 | — | 5.0 |
| A 35 2_15.5 | 15.5 | 2.2 | — | — | 5.0 | 4.9 | 6.1 | 6.1 | — | 4.3 |
| A 35 2_17.0 | 17.0 | 2.0 | — | — | 4.7 | 4.6 | 5.8 | 5.8 | — | 4.0 |
| A 35 2_20.4 | 20.4 | 1.6 | — | — | 4.3 | 4.2 | 5.4 | 5.4 | — | 3.6 |
| A 35 2_22.5 | 22.5 | 1.3 | 2.0 | 2.0 | 4.1 | 3.9 | 5.1 | 5.1 | — | 3.4 |
| A 35 2_25.7 | 25.7 | 0.97 | 1.7 | 1.7 | 3.7 | 3.6 | 4.8 | 4.8 | — | 3.0 |
| A 35 2_28.4 | 28.4 | 0.86 | 1.6 | 1.6 | 3.6 | 3.5 | 4.7 | 4.7 | — | 2.9 |
| A 35 2_33.2 | 33.2 | 0.69 | 1.4 | 1.4 | 3.5 | 3.3 | 4.5 | 4.5 | — | 2.8 |
| A 35 2_36.6 | 36.6 | 0.58 | 1.3 | 1.3 | 3.3 | 3.2 | 4.4 | 4.4 | — | 2.6 |
| A 35 2_41.8 | 41.8 | 0.48 | 1.2 | 1.2 | 3.2 | 3.1 | 4.3 | 4.3 | — | 2.5 |
| A 35 2_45.8 | 45.8 | 0.42 | 1.1 | 1.1 | 3.2 | 3.1 | 4.3 | 4.3 | — | 2.5 |
| A 35 2_49.1 | 49.1 | 0.38 | 1.1 | 1.1 | 3.1 | 3.0 | 4.2 | 4.2 | — | 2.4 |
| A 35 2_54.3 | 54.3 | 0.33 | 1.1 | 1.0 | 3.1 | 3.0 | 4.2 | 4.2 | — | 2.4 |
| A 35 2_60.4 | 60.4 | 0.29 | 1.0 | 1.0 | 3.0 | 2.9 | 4.1 | 4.1 | — | 2.3 |
| A 35 2_65.8 | 65.8 | 0.25 | 1.0 | 1.0 | 3.0 | 2.9 | 4.1 | 4.1 | — | 2.3 |
| A 35 2_74.3 | 74.3 | 0.21 | 0.95 | 0.93 | 3.0 | 2.8 | 4.1 | 4.1 | — | 2.3 |
| A 35 2_82.5 | 82.5 | 0.18 | 0.92 | 0.90 | 2.9 | 2.8 | 4.0 | 4.0 | — | 2.2 |
| A 35 2_95.6 | 95.6 | 0.15 | 0.88 | 0.87 | 2.9 | 2.8 | 4.0 | 4.0 | — | 2.2 |
| A 35 3_105.5 | 105.5 | 0.11 | 0.89 | 0.87 | 2.9 | 2.8 | 4.0 | 4.0 | — | 0.80 |
| A 35 3_116.9 | 116.9 | 0.11 | 0.88 | 0.87 | 2.9 | 2.8 | 4.0 | 4.0 | — | 0.79 |
| A 35 3_136.3 | 136.3 | 0.10 | 0.87 | 0.86 | 2.9 | 2.8 | 4.0 | 4.0 | — | 0.78 |
| A 35 3_150.6 | 150.6 | 0.09 | 0.86 | 0.85 | 2.9 | 2.8 | 4.0 | 4.0 | — | 0.77 |
| A 35 3_171.8 | 171.8 | 0.08 | 0.86 | 0.84 | 2.9 | 2.8 | 4.0 | 4.0 | — | 0.77 |
| A 35 3_188.3 | 188.3 | 0.08 | 0.85 | 0.84 | 2.9 | 2.7 | 4.0 | 4.0 | — | 0.76 |
| A 35 3_201.8 | 201.8 | 0.08 | 0.85 | 0.84 | 2.9 | 2.7 | 4.0 | 4.0 | — | 0.76 |
| A 35 3_223.2 | 223.2 | 0.08 | 0.85 | 0.84 | 2.9 | 2.7 | 4.0 | 4.0 | — | 0.76 |
| A 35 3_248.1 | 248.1 | 0.07 | 0.85 | 0.83 | 2.9 | 2.7 | 4.0 | 4.0 | — | 0.76 |
| A 35 3_270.7 | 270.7 | 0.07 | 0.84 | 0.83 | 2.9 | 2.7 | 4.0 | 4.0 | — | 0.75 |
| A 35 3_305.4 | 305.4 | 0.07 | 0.84 | 0.83 | 2.9 | 2.7 | 4.0 | 4.0 | — | 0.75 |
| A 35 3_339.3 | 339.3 | 0.07 | 0.84 | 0.83 | 2.9 | 2.7 | 4.0 | 4.0 | — | 0.75 |
| A 35 3_393.2 | 393.2 | 0.07 | 0.84 | 0.83 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.75 |



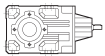


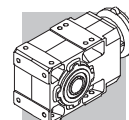
A 35

| | | J (•10 ⁻⁴) [kgm ²] | | | | | | | | | | | |
|--------------|-------|--|------|------------|------|-----|-----|--------------------|-----|-------------|------|------|-----|
| | |  SERVO | | | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | | 130A | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| A 35 2_5.4 | 5.4 | — | — | — | — | — | — | 10 | 11 | 9.9 | 10.9 | 9.9 | 11 |
| A 35 2_6.4 | 6.4 | — | — | — | — | — | — | 8.1 | 8.6 | 8.0 | 9.0 | 8.0 | 9.0 |
| A 35 2_7.0 | 7.0 | — | — | — | — | — | — | 7.3 | 7.8 | 7.2 | 8.2 | 7.2 | 8.2 |
| A 35 2_8.5 | 8.5 | — | — | — | — | — | — | 6.1 | 6.6 | 5.9 | 6.9 | 5.9 | 6.9 |
| A 35 2_9.3 | 9.3 | 3.1 | 3.3 | 3.1 | 3.5 | 5.6 | 6.1 | 5.6 | 6.1 | 5.4 | 6.4 | 5.4 | 6.4 |
| A 35 2_10.6 | 10.6 | 2.4 | 2.6 | 2.4 | 2.8 | 4.9 | 5.4 | 4.9 | 5.4 | 4.8 | 5.8 | 4.8 | 5.8 |
| A 35 2_11.8 | 11.8 | 2.1 | 2.3 | 2.1 | 2.5 | 4.6 | 5.1 | 4.6 | 5.1 | 4.4 | 5.4 | 4.4 | 5.4 |
| A 35 2_13.1 | 13.1 | — | — | — | — | — | — | 5.7 | 6.2 | 5.6 | 6.6 | 5.6 | 6.6 |
| A 35 2_15.5 | 15.5 | — | — | — | — | — | — | 5.0 | 5.5 | 4.9 | 5.9 | 4.9 | 5.9 |
| A 35 2_17.0 | 17.0 | — | — | — | — | — | — | 4.7 | 5.2 | 4.6 | 5.6 | 4.6 | 5.6 |
| A 35 2_20.4 | 20.4 | — | — | — | — | — | — | 4.3 | 4.8 | 4.2 | 5.2 | 4.2 | 5.2 |
| A 35 2_22.5 | 22.5 | 1.6 | 1.8 | 1.6 | 2.0 | 4.1 | 4.6 | 4.1 | 4.6 | 3.9 | 4.9 | 3.9 | 4.9 |
| A 35 2_25.7 | 25.7 | 1.2 | 1.5 | 1.3 | 1.7 | 3.8 | 4.2 | 3.7 | 4.2 | 3.6 | 4.6 | 3.6 | 4.6 |
| A 35 2_28.4 | 28.4 | 1.1 | 1.4 | 1.2 | 1.6 | 3.7 | 4.1 | 3.6 | 4.1 | 3.5 | 4.5 | 3.5 | 4.5 |
| A 35 2_33.2 | 33.2 | 0.96 | 1.2 | 0.98 | 1.4 | 3.5 | 3.9 | 3.5 | 4.0 | 3.3 | 4.3 | 3.3 | 4.3 |
| A 35 2_36.6 | 36.6 | 0.85 | 1.1 | 0.87 | 1.3 | 3.4 | 3.8 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 |
| A 35 2_41.8 | 41.8 | 0.75 | 1.0 | 0.77 | 1.2 | 3.3 | 3.7 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 |
| A 35 2_45.8 | 45.8 | 0.69 | 0.95 | 0.71 | 1.1 | 3.2 | 3.7 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 |
| A 35 2_49.1 | 49.1 | 0.65 | 0.91 | 0.67 | 1.1 | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| A 35 2_54.3 | 54.3 | 0.60 | 0.86 | 0.62 | 1.1 | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| A 35 2_60.4 | 60.4 | 0.56 | 0.82 | 0.58 | 1.0 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| A 35 2_65.8 | 65.8 | 0.52 | 0.78 | 0.54 | 0.98 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| A 35 2_74.3 | 74.3 | 0.48 | 0.74 | 0.50 | 0.94 | 3.0 | 3.5 | 3.0 | 3.5 | 2.8 | 3.8 | 2.8 | 3.8 |
| A 35 2_82.5 | 82.5 | 0.45 | 0.71 | 0.47 | 0.91 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | 2.8 | 3.8 |
| A 35 2_95.6 | 95.6 | 0.42 | 0.68 | 0.44 | 0.88 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | 2.8 | 3.8 |
| A 35 3_105.5 | 105.5 | 0.38 | 0.64 | 0.40 | 0.84 | 2.9 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| A 35 3_116.9 | 116.9 | 0.38 | 0.64 | 0.40 | 0.84 | 2.9 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| A 35 3_136.3 | 136.3 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| A 35 3_150.6 | 150.6 | 0.36 | 0.62 | 0.38 | 0.82 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| A 35 3_171.8 | 171.8 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| A 35 3_188.3 | 188.3 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| A 35 3_201.8 | 201.8 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| A 35 3_223.2 | 223.2 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| A 35 3_248.1 | 248.1 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| A 35 3_270.7 | 270.7 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| A 35 3_305.4 | 305.4 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| A 35 3_339.3 | 339.3 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| A 35 3_393.2 | 393.2 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |




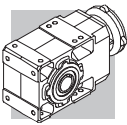
A 41

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|---|-----|
| | |  |  IEC | | | | | |  | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | |
| A 41 2_5.2 | 5.2 | 13 | — | — | 16 | 16 | 17 | 17 | 32 | 23 |
| A 41 2_7.1 | 7.1 | 7.3 | — | — | 10 | 10 | 11 | 11 | 26 | 18 |
| A 41 2_8.3 | 8.3 | 5.9 | — | — | 8.8 | 8.7 | 10 | 10 | 25 | 16 |
| A 41 2_9.2 | 9.2 | 4.5 | — | — | 7.4 | 7.3 | 8.6 | 8.6 | 23 | 15 |
| A 41 2_10.1 | 10.1 | 5.9 | — | — | 8.8 | 8.7 | 10 | 10 | 25 | 16 |
| A 41 2_11.7 | 11.7 | 2.9 | 4.4 | 4.4 | 5.8 | 5.7 | 7.0 | 7.0 | 22 | 13 |
| A 41 2_13.8 | 13.8 | 3.6 | — | — | 6.5 | 6.4 | 7.7 | 7.7 | 23 | 14 |
| A 41 2_16.1 | 16.1 | 2.9 | — | — | 5.8 | 5.7 | 7.0 | 7.0 | 22 | 13 |
| A 41 2_17.8 | 17.8 | 2.2 | — | — | 5.1 | 5.0 | 6.3 | 6.3 | 21 | 11 |
| A 41 2_22.7 | 22.7 | 1.5 | 3.0 | 3.0 | 4.4 | 4.3 | 5.6 | 5.6 | 20 | 11 |
| A 41 2_28.3 | 28.3 | 1.1 | 2.6 | 2.6 | 4.0 | 3.9 | 5.2 | 5.2 | 20 | 10 |
| A 41 2_35.9 | 35.9 | 1.7 | 3.2 | 3.2 | 4.6 | 4.5 | 5.8 | 5.8 | 20 | 9.8 |
| A 41 2_45.1 | 45.1 | 1.5 | 3.0 | 3.0 | 4.4 | 4.3 | 5.6 | 5.6 | 20 | 9.6 |
| A 41 2_48.3 | 48.3 | 1.4 | 2.9 | 2.9 | 4.3 | 4.2 | 5.5 | 5.5 | — | 9.5 |
| A 41 2_53.1 | 53.1 | 1.4 | 2.9 | 2.9 | 4.3 | 4.2 | 5.5 | 5.5 | — | 9.5 |
| A 41 2_58.8 | 58.8 | 1.3 | 2.8 | 2.8 | 4.2 | 4.1 | 5.4 | 5.4 | — | 9.4 |
| A 41 2_64.2 | 64.2 | 1.3 | 2.8 | 2.8 | 4.2 | 4.1 | 5.4 | 5.4 | — | 9.4 |
| A 41 2_71.3 | 71.3 | 1.2 | 2.7 | 2.7 | 4.1 | 4.0 | 5.3 | 5.3 | — | 9.3 |
| A 41 2_79.2 | 79.2 | 1.2 | 2.7 | 2.7 | 4.1 | 4.0 | 5.3 | 5.3 | — | 9.3 |
| A 41 3_92.8 | 92.8 | 1.1 | 2.6 | 2.6 | 4.0 | 3.9 | 5.2 | 5.2 | — | 9.2 |
| A 41 3_115.9 | 115.9 | 0.20 | 1.7 | 1.7 | 2.9 | 3.0 | 4.3 | 4.3 | — | 2.1 |
| A 41 3_146.9 | 146.9 | 0.10 | 1.6 | 1.6 | 2.8 | 2.9 | 4.2 | 4.2 | — | 2.1 |
| A 41 3_184.4 | 184.4 | 0.10 | 1.6 | 1.6 | 2.8 | 2.9 | 4.2 | 4.2 | — | 2.1 |
| A 41 3_197.5 | 197.5 | 0.10 | 1.6 | 1.6 | 2.8 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| A 41 3_217.4 | 217.4 | 0.10 | 1.6 | 1.6 | 2.8 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| A 41 3_240.6 | 240.6 | 0.10 | 1.6 | 1.6 | 2.8 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| A 41 3_262.5 | 262.5 | 0.10 | 1.6 | 1.6 | 2.8 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| A 41 3_291.7 | 291.7 | 0.10 | 1.6 | 1.6 | 2.8 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| A 41 3_324.2 | 324.2 | 0.10 | 1.6 | 1.6 | 2.8 | 2.9 | 4.2 | 4.2 | — | 2.0 |
| A 41 3_376.8 | 376.8 | 0.10 | 1.6 | 1.6 | 2.8 | 2.9 | 4.2 | 4.2 | — | 2.0 |



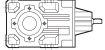


A 41

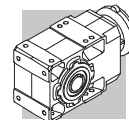
| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | | | | | | | |
|--------------|-------|---|------|------------|------|-----|-----|-----|-----|--------------------|------|-------------|-----|------|-----|--------------|----|------|----|
| | |  SERVO | | | | | | | | | | | | | | | | | |
| | i | 60A | | 60B 80A | | 80B | | 95A | | 80C 95B 110A | | 95C 110B | | 130A | | 130B 180A | | 180B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| A 41 2_5.2 | 5.2 | — | — | — | — | — | — | — | — | 16 | 16.5 | 16 | 17 | 16 | 17 | 30 | 32 | 32 | 37 |
| A 41 2_7.1 | 7.1 | — | — | — | — | — | — | — | — | 10 | 10.5 | 10 | 11 | 10 | 11 | 24 | 27 | 26 | 31 |
| A 41 2_8.3 | 8.3 | — | — | — | — | — | — | — | — | 8.8 | 9.3 | 8.7 | 9.7 | 8.7 | 9.7 | 23 | 25 | 25 | 30 |
| A 41 2_9.2 | 9.2 | — | — | — | — | — | — | — | — | 7.4 | 7.9 | 7.3 | 8.3 | 7.3 | 8.3 | 21 | 24 | 23 | 28 |
| A 41 2_10.1 | 10.1 | — | — | — | — | — | — | — | — | 8.8 | 9.3 | 8.7 | 9.7 | 8.7 | 9.7 | 23 | 25 | 25 | 30 |
| A 41 2_11.7 | 11.7 | — | — | — | — | 5.7 | 6.2 | 5.7 | 6.2 | 5.8 | 6.3 | 5.7 | 6.7 | 5.7 | 6.7 | 20 | 22 | 22 | 27 |
| A 41 2_13.8 | 13.8 | — | — | — | — | — | — | — | — | 6.5 | 7.0 | 6.4 | 7.4 | 6.4 | 7.4 | 21 | 23 | 23 | 28 |
| A 41 2_16.1 | 16.1 | — | — | — | — | — | — | — | — | 5.8 | 6.3 | 5.7 | 6.7 | 5.7 | 6.7 | 20 | 22 | 22 | 27 |
| A 41 2_17.8 | 17.8 | — | — | — | — | — | — | — | — | 5.1 | 5.6 | 5.0 | 6.0 | 5.0 | 6.0 | 19 | 22 | 21 | 26 |
| A 41 2_22.7 | 22.7 | — | — | — | — | 4.3 | 4.8 | 4.3 | 4.8 | 4.4 | 4.9 | 4.3 | 5.3 | 4.3 | 5.3 | 18 | 21 | 20 | 25 |
| A 41 2_28.3 | 28.3 | — | — | — | — | 3.9 | 4.4 | 3.9 | 4.4 | 4.0 | 4.5 | 3.9 | 4.9 | 3.9 | 4.9 | 18 | 21 | 20 | 25 |
| A 41 2_35.9 | 35.9 | — | — | — | — | 4.5 | 5.0 | 4.5 | 5.0 | 4.6 | 5.1 | 4.5 | 5.5 | 4.5 | 5.5 | 19 | 21 | 20 | 25 |
| A 41 2_45.1 | 45.1 | — | — | — | — | 4.3 | 4.8 | 4.3 | 4.8 | 4.4 | 4.9 | 4.3 | 5.3 | 4.3 | 5.3 | 18 | 21 | 20 | 25 |
| A 41 2_48.3 | 48.3 | — | — | — | — | 4.2 | 4.7 | 4.2 | 4.7 | 4.3 | 4.8 | 4.2 | 5.2 | 4.2 | 5.2 | — | — | — | — |
| A 41 2_53.1 | 53.1 | — | — | — | — | 4.2 | 4.7 | 4.2 | 4.7 | 4.3 | 4.8 | 4.2 | 5.2 | 4.2 | 5.2 | — | — | — | — |
| A 41 2_58.8 | 58.8 | — | — | — | — | 4.1 | 4.6 | 4.1 | 4.6 | 4.2 | 4.7 | 4.1 | 5.1 | 4.1 | 5.1 | — | — | — | — |
| A 41 2_64.2 | 64.2 | — | — | — | — | 4.1 | 4.6 | 4.1 | 4.6 | 4.2 | 4.7 | 4.1 | 5.1 | 4.1 | 5.1 | — | — | — | — |
| A 41 2_71.3 | 71.3 | — | — | — | — | 4.0 | 4.5 | 4.0 | 4.5 | 4.1 | 4.6 | 4.0 | 5.0 | 4.0 | 5.0 | — | — | — | — |
| A 41 2_79.2 | 79.2 | — | — | — | — | 4.0 | 4.5 | 4.0 | 4.5 | 4.1 | 4.6 | 4.0 | 5.0 | 4.0 | 5.0 | — | — | — | — |
| A 41 3_92.8 | 92.8 | 1.4 | 1.6 | 1.4 | 1.8 | — | — | 3.9 | 4.4 | 4.0 | 4.5 | 3.9 | 4.9 | — | — | — | — | — | — |
| A 41 3_115.9 | 115.9 | 0.47 | 0.73 | 0.49 | 0.93 | — | — | 3.0 | 3.5 | 2.9 | 3.4 | 3.0 | 4.0 | — | — | — | — | — | — |
| A 41 3_146.9 | 146.9 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 2.8 | 3.3 | 2.9 | 3.9 | — | — | — | — | — | — |
| A 41 3_184.4 | 184.4 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 2.8 | 3.3 | 2.9 | 3.9 | — | — | — | — | — | — |
| A 41 3_197.5 | 197.5 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 2.8 | 3.3 | 2.9 | 3.9 | — | — | — | — | — | — |
| A 41 3_217.4 | 217.4 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 2.8 | 3.3 | 2.9 | 3.9 | — | — | — | — | — | — |
| A 41 3_240.6 | 240.6 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 2.8 | 3.3 | 2.9 | 3.9 | — | — | — | — | — | — |
| A 41 3_262.5 | 262.5 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 2.8 | 3.3 | 2.9 | 3.9 | — | — | — | — | — | — |
| A 41 3_291.7 | 291.7 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 2.8 | 3.3 | 2.9 | 3.9 | — | — | — | — | — | — |
| A 41 3_324.2 | 324.2 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 2.8 | 3.3 | 2.9 | 3.9 | — | — | — | — | — | — |
| A 41 3_376.8 | 376.8 | 0.37 | 0.63 | 0.39 | 0.83 | — | — | 2.9 | 3.4 | 2.8 | 3.3 | 2.9 | 3.9 | — | — | — | — | — | — |




A 50

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | |
|---------------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | 180 | |
| A 50 2_7.7 | 7.7 | 15 | — | — | 18 | 18 | 19 | 19 | 34 | 93 | 91 | 24 |
| A 50 2_9.7 | 9.7 | 10 | — | — | 13 | 13 | 14 | 14 | 29 | 89 | 86 | 19 |
| A 50 2_13.1 | 13.1 | 6.3 | — | — | 9.2 | 9.1 | 10 | 10 | 25 | 85 | 82 | 15 |
| A 50 2_16.6 | 16.6 | 4.2 | — | — | 7.0 | 7.0 | 8.2 | 8.2 | 23 | 82 | 80 | 13 |
| A 50 2_20.9 | 20.9 | 2.8 | 4.2 | 4.2 | 5.7 | 5.6 | 6.9 | 6.9 | 22 | 81 | 79 | 12 |
| A 50 3_24.0 | 24.0 | 6.0 | — | — | 8.9 | 8.8 | 10 | 10 | 25 | 84 | 82 | 15 |
| A 50 3_26.4 | 26.4 | 5.8 | — | — | 8.7 | 8.6 | 9.9 | 9.9 | 25 | 84 | 82 | 15 |
| A 50 3_32.4 | 32.4 | 4.0 | — | — | 6.8 | 6.8 | 8.1 | 8.1 | 23 | 82 | 80 | 13 |
| A 50 3_35.6 | 35.6 | 3.9 | — | — | 6.7 | 6.7 | 8.0 | 8.0 | 23 | 82 | 80 | 13 |
| A 50 3_40.9 | 40.9 | 2.7 | — | — | 5.6 | 5.5 | 6.8 | 6.8 | 22 | 81 | 79 | 12 |
| A 50 3_45.0 | 45.0 | 2.6 | — | — | 5.5 | 5.4 | 6.7 | 6.7 | 22 | 81 | 79 | 12 |
| A 50 3_51.7 | 51.7 | 1.9 | 3.4 | 3.4 | 4.7 | 4.7 | 6.0 | 6.0 | 21 | 80 | 78 | 11 |
| A 50 3_56.8 | 56.8 | 1.9 | 3.3 | 3.3 | 4.7 | 4.6 | 5.9 | 5.9 | 21 | 80 | 78 | 11 |
| A 50 3_63.9 | 63.9 | 1.4 | 2.9 | 2.8 | 4.2 | 4.2 | 5.5 | 5.5 | 20 | 80 | 77 | 11 |
| A 50 3_70.2 | 70.2 | 1.4 | 2.8 | 2.8 | 4.2 | 4.1 | 5.4 | 5.4 | 20 | 80 | 77 | 10 |
| A 50 3_81.5 | 81.5 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 5.0 | 20 | 79 | 77 | 10 |
| A 50 3_89.5 | 89.5 | 0.90 | 2.4 | 2.4 | 3.7 | 3.7 | 5.0 | 5.0 | 20 | 79 | 77 | 10 |
| A 50 3_99.5 | 99.5 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 20 | 79 | 77 | 9.7 |
| A 50 3_109.4 | 109.4 | 0.60 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 20 | 79 | 77 | 9.7 |
| A 50 3_118.0 | 118.0 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 9.6 |
| A 50 3_129.7 | 129.7 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 9.6 |
| A 50 3_140.6 | 140.6 | 0.40 | 1.8 | 1.8 | 3.2 | 3.2 | 4.4 | 4.4 | — | — | — | 9.4 |
| A 50 3_154.6 | 154.6 | 0.40 | 1.8 | 1.8 | 3.2 | 3.2 | 4.4 | 4.4 | — | — | — | 9.4 |
| A 50 3_173.4 | 173.4 | 0.30 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | — | — | 9.3 |
| A 50 3_190.6 | 190.6 | 0.20 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | — | — | 9.3 |

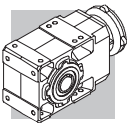
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.





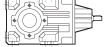
A 50

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|---------------------|-------|--|-----|--------------------|-----|---------------------|-----|--------------|----|------|----|
| | |  SERVO | | | | | | | | | |
| | i | 80B 95A | | 80C 95B 110A | | 95C 110B 130A | | 130B 180A | | 180B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| A 50 2_7.7 | 7.7 | — | — | 18 | 19 | 18 | 19 | 32 | 34 | 34 | 39 |
| A 50 2_9.7 | 9.7 | — | — | 13 | 14 | 13 | 14 | 27 | 29 | 29 | 34 |
| A 50 2_13.1 | 13.1 | — | — | 9.2 | 9.7 | 9.1 | 10 | 23 | 26 | 25 | 30 |
| A 50 2_16.6 | 16.6 | — | — | 7.0 | 7.5 | 7.0 | 8.0 | 21 | 24 | 23 | 28 |
| A 50 2_20.9 | 20.9 | 5.6 | 6.1 | 5.7 | 6.2 | 5.6 | 6.6 | 20 | 22 | 22 | 27 |
| A 50 3_24.0 | 24.0 | — | — | 8.9 | 9.4 | 8.8 | 9.8 | 23 | 25 | 25 | 30 |
| A 50 3_26.4 | 26.4 | — | — | 8.7 | 9.2 | 8.6 | 9.6 | 23 | 25 | 25 | 30 |
| A 50 3_32.4 | 32.4 | — | — | 6.8 | 7.3 | 6.8 | 7.8 | 21 | 23 | 23 | 28 |
| A 50 3_35.6 | 35.6 | — | — | 6.7 | 7.2 | 6.7 | 7.7 | 21 | 23 | 23 | 28 |
| A 50 3_40.9 | 40.9 | — | — | 5.6 | 6.1 | 5.5 | 6.5 | 20 | 22 | 22 | 27 |
| A 50 3_45.0 | 45.0 | — | — | 5.5 | 6.0 | 5.4 | 6.4 | 20 | 22 | 22 | 27 |
| A 50 3_51.7 | 51.7 | 4.7 | 5.1 | 4.7 | 5.2 | 4.7 | 5.7 | 19 | 21 | 21 | 26 |
| A 50 3_56.8 | 56.8 | 4.7 | 5.1 | 4.7 | 5.2 | 4.6 | 5.6 | 19 | 21 | 21 | 26 |
| A 50 3_63.9 | 63.9 | 4.2 | 4.7 | 4.2 | 5.2 | 4.2 | 5.2 | 18 | 21 | 20 | 25 |
| A 50 3_70.2 | 70.2 | 4.2 | 4.7 | 4.2 | 5.2 | 4.1 | 5.1 | 18 | 21 | 20 | 25 |
| A 50 3_81.5 | 81.5 | 3.7 | 4.1 | 3.8 | 4.3 | 3.7 | 4.7 | 18 | 20 | 20 | 25 |
| A 50 3_89.5 | 89.5 | 3.7 | 4.1 | 3.7 | 4.2 | 3.7 | 4.7 | 18 | 20 | 20 | 25 |
| A 50 3_99.5 | 99.5 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 18 | 20 | 20 | 25 |
| A 50 3_109.4 | 109.4 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | 18 | 20 | 20 | 25 |
| A 50 3_118.0 | 118.0 | 3.3 | 3.8 | 3.4 | 4.0 | 3.3 | 4.3 | — | — | — | — |
| A 50 3_129.7 | 129.7 | 3.3 | 3.8 | 3.4 | 4.0 | 3.3 | 4.3 | — | — | — | — |
| A 50 3_140.6 | 140.6 | 3.2 | 3.7 | 3.2 | 3.7 | 3.2 | 4.2 | — | — | — | — |
| A 50 3_154.6 | 154.6 | 3.2 | 3.7 | 3.2 | 3.7 | 3.2 | 4.2 | — | — | — | — |
| A 50 3_173.4 | 173.4 | 3.1 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| A 50 3_190.6 | 190.6 | 3.0 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |

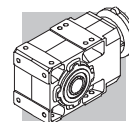
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.




A 55

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | |
|---------------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | 180 | | |
| A 55 2_4.9 | 4.9 | 61 | — | — | — | — | — | — | — | 77 | 123 | 120 | 70 |
| A 55 2_6.4 | 6.4 | 41 | — | — | — | — | — | — | — | 57 | 103 | 100 | 50 |
| A 55 2_8.5 | 8.5 | 26 | — | — | — | — | — | — | — | 42 | 88 | 85 | 35 |
| A 55 2_10.4 | 10.4 | 19 | — | — | — | — | — | — | — | 35 | 81 | 78 | 28 |
| A 55 2_13.1 | 13.1 | 12 | — | — | 14 | 14 | 17 | 17 | 28 | 28 | 74 | 72 | 21 |
| A 55 2_15.7 | 15.7 | 8.9 | — | — | 11 | 11 | 14 | 14 | 25 | 25 | 71 | 68 | 18 |
| A 55 2_19.2 | 19.2 | 6.2 | — | — | 8.6 | 8.5 | 11 | 11 | 23 | 23 | 68 | 66 | 15 |
| A 55 3_23.8 | 23.8 | 11 | — | — | 13 | 13 | 16 | 16 | 27 | 27 | 73 | 70 | 20 |
| A 55 3_29.9 | 29.9 | 7.9 | — | — | 10 | 10 | 13 | 13 | 24 | 24 | 70 | 67 | 17 |
| A 55 3_40.3 | 40.3 | 5.3 | — | — | 7.8 | 7.6 | 10 | 10 | 22 | 22 | 68 | 65 | 14 |
| A 55 3_51.0 | 51.0 | 3.6 | — | — | 6.0 | 5.9 | 8.6 | 8.6 | 20 | 20 | 66 | 63 | 13 |
| A 55 3_64.3 | 64.3 | 2.6 | 3.1 | 3.0 | 5.1 | 5.0 | 7.7 | 7.7 | 19 | 19 | 65 | 62 | 12 |
| A 55 3_79.5 | 79.5 | 2.0 | 2.4 | 2.4 | 4.5 | 4.4 | 7.1 | 7.1 | 18 | 18 | 64 | 62 | 11 |
| A 55 3_101.4 | 101.4 | 1.3 | 1.8 | 1.8 | 3.8 | 3.7 | 6.5 | 6.5 | 18 | 18 | 64 | 61 | 10 |
| A 55 3_123.9 | 123.9 | 1.0 | 1.5 | 1.5 | 3.6 | 3.4 | 6.2 | 6.2 | 17 | 17 | 63 | 61 | 10 |
| A 55 3_132.7 | 132.7 | 0.71 | 1.4 | 1.4 | 3.5 | 3.3 | 6.1 | 6.1 | — | — | — | — | 9.5 |
| A 55 3_146.8 | 146.8 | 0.66 | 1.4 | 1.4 | 3.4 | 3.3 | 6.0 | 6.0 | — | — | — | — | 9.4 |
| A 55 3_160.4 | 160.4 | 0.58 | 1.3 | 1.3 | 3.3 | 3.2 | 6.0 | 6.0 | — | — | — | — | 9.4 |
| A 55 3_175.0 | 175.0 | 0.50 | 1.2 | 1.2 | 3.3 | 3.1 | 5.9 | 5.9 | — | — | — | — | 9.3 |
| A 55 3_194.2 | 194.2 | 0.43 | 1.2 | 1.2 | 3.2 | 3.1 | 5.8 | 5.8 | — | — | — | — | 9.2 |

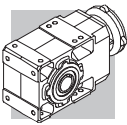
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.





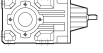
A 55

| | | J (•10 ⁻⁴) [kgm ²] | | | | | | | | | |
|--------------|-------|---|-----|--------------------|-----|---------------------|-----|--------------|----|------|----|
| | |  SERVO | | | | | | | | | |
| | i | 80B 95A | | 80C 95B 110A | | 95C 110B 130A | | 130B 180A | | 180B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| A 55 2_4.9 | 4.9 | — | — | — | — | — | — | 78 | 80 | 77 | 82 |
| A 55 2_6.4 | 6.4 | — | — | — | — | — | — | 58 | 60 | 57 | 62 |
| A 55 2_8.5 | 8.5 | — | — | — | — | — | — | 43 | 45 | 42 | 47 |
| A 55 2_10.4 | 10.4 | — | — | — | — | — | — | 36 | 38 | 35 | 40 |
| A 55 2_13.1 | 13.1 | — | — | 14 | 15 | 14 | 15 | 29 | 31 | 28 | 33 |
| A 55 2_15.7 | 15.7 | — | — | 11 | 12 | 11 | 12 | 26 | 28 | 25 | 30 |
| A 55 2_19.2 | 19.2 | — | — | 8.6 | 9.1 | 8.5 | 9.5 | 23 | 26 | 23 | 28 |
| A 55 3_23.8 | 23.8 | — | — | 13 | 14 | 13 | 14 | 28 | 30 | 27 | 32 |
| A 55 3_29.9 | 29.9 | — | — | 10 | 11 | 10 | 11 | 25 | 27 | 24 | 29 |
| A 55 3_40.3 | 40.3 | — | — | 7.8 | 8.3 | 7.6 | 8.6 | 22 | 25 | 22 | 27 |
| A 55 3_51.0 | 51.0 | — | — | 6.0 | 6.5 | 5.9 | 6.9 | 21 | 23 | 20 | 25 |
| A 55 3_64.3 | 64.3 | 5.4 | 5.9 | 5.1 | 5.6 | 5.0 | 6.0 | 20 | 22 | 19 | 24 |
| A 55 3_79.5 | 79.5 | 4.8 | 5.3 | 4.5 | 5.0 | 4.4 | 5.4 | 19 | 21 | 18 | 23 |
| A 55 3_101.4 | 101.4 | 4.1 | 4.6 | 3.8 | 4.3 | 3.7 | 4.7 | 18 | 21 | 18 | 23 |
| A 55 3_123.9 | 123.9 | 3.8 | 4.3 | 3.6 | 4.1 | 3.4 | 4.4 | 18 | 20 | 17 | 22 |
| A 55 3_132.7 | 132.7 | 3.5 | 4.0 | 3.5 | 4.0 | 3.3 | 4.3 | — | — | — | — |
| A 55 3_146.8 | 146.8 | 3.5 | 3.9 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| A 55 3_160.4 | 160.4 | 3.4 | 3.8 | 3.3 | 3.8 | 3.2 | 4.2 | — | — | — | — |
| A 55 3_175.0 | 175.0 | 3.3 | 3.8 | 3.3 | 3.8 | 3.1 | 4.1 | — | — | — | — |
| A 55 3_194.2 | 194.2 | 3.3 | 3.7 | 3.2 | 3.7 | 3.1 | 4.1 | — | — | — | — |

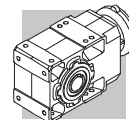
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.




A 60

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | |
|---------------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | 180 | | |
| A 60 2_7.9 | 7.9 | 36 | — | — | — | — | — | — | — | 54 | 114 | 112 | 57 |
| A 60 2_10.3 | 10.3 | 23 | — | — | 25 | 25 | 27 | 27 | 41 | 101 | 99 | 99 | 44 |
| A 60 2_12.7 | 12.7 | 16 | — | — | 19 | 19 | 20 | 20 | 35 | 94 | 92 | 92 | 37 |
| A 60 2_16.7 | 16.7 | 9.4 | — | — | 12 | 12 | 14 | 14 | 28 | 88 | 85 | 85 | 30 |
| A 60 2_20.6 | 20.6 | 6.7 | — | — | 9.6 | 9.5 | 11 | 11 | 26 | 85 | 83 | 83 | 28 |
| A 60 3_25.7 | 25.7 | 14 | — | — | 17 | 17 | 18 | 18 | 33 | 92 | 90 | 90 | 35 |
| A 60 3_27.9 | 27.9 | 14 | — | — | 17 | 17 | 18 | 18 | 33 | 92 | 90 | 90 | 35 |
| A 60 3_31.7 | 31.7 | 10 | — | — | 13 | 13 | 15 | 15 | 29 | 89 | 86 | 86 | 31 |
| A 60 3_34.3 | 34.3 | 10 | — | — | 13 | 13 | 14 | 14 | 29 | 89 | 86 | 86 | 31 |
| A 60 3_41.7 | 41.7 | 6.1 | — | — | 9.0 | 8.9 | 10 | 10 | 25 | 84 | 82 | 82 | 27 |
| A 60 3_45.2 | 45.2 | 6.1 | — | — | 8.9 | 8.9 | 10 | 10 | 25 | 84 | 82 | 82 | 27 |
| A 60 3_51.3 | 51.3 | 5.0 | — | — | 7.4 | 7.4 | 8.7 | 8.7 | 24 | 83 | 81 | 81 | 26 |
| A 60 3_55.6 | 55.6 | 4.5 | — | — | 7.4 | 7.3 | 8.6 | 8.6 | 23 | 83 | 81 | 81 | 26 |
| A 60 3_65.0 | 65.0 | 3.2 | 4.7 | 4.6 | 6.1 | 6.0 | 7.3 | 7.3 | 22 | 82 | 79 | 79 | 24 |
| A 60 3_70.4 | 70.4 | 3.2 | 4.7 | 4.6 | 6.1 | 6.0 | 7.3 | 7.3 | 22 | 81 | 79 | 79 | 24 |
| A 60 3_79.7 | 79.7 | 2.1 | 3.6 | 3.5 | 5.0 | 4.9 | 6.2 | 6.2 | 21 | 80 | 78 | 78 | 23 |
| A 60 3_86.4 | 86.4 | 2.1 | 3.6 | 3.5 | 5.0 | 4.9 | 6.2 | 6.2 | 21 | 80 | 78 | 78 | 23 |
| A 60 3_99.5 | 99.5 | 2.0 | 3.5 | 3.4 | 4.3 | 4.3 | 5.6 | 5.6 | 20 | 80 | 78 | 78 | 23 |
| A 60 3_107.8 | 107.8 | 1.5 | 3.0 | 2.9 | 4.3 | 4.3 | 5.6 | 5.6 | 20 | 80 | 78 | 78 | 22 |
| A 60 3_123.0 | 123.0 | 1.1 | 2.6 | 2.5 | 4.0 | 3.9 | 5.2 | 5.2 | 20 | 79 | 77 | 77 | 22 |
| A 60 3_133.3 | 133.3 | 1.1 | 2.6 | 2.5 | 3.9 | 3.9 | 5.2 | 5.2 | 20 | 79 | 77 | 77 | 22 |
| A 60 3_144.0 | 144.0 | 0.80 | 2.3 | 2.2 | 3.7 | 3.6 | 5.0 | 5.0 | — | — | — | — | 22 |
| A 60 3_156.0 | 156.0 | 0.80 | 2.3 | 2.2 | 3.7 | 3.6 | 5.0 | 5.0 | — | — | — | — | 22 |
| A 60 3_171.5 | 171.5 | 0.60 | 2.1 | 2.0 | 3.5 | 3.4 | 4.7 | 4.7 | — | — | — | — | 22 |
| A 60 3_185.8 | 185.8 | 0.60 | 2.1 | 2.0 | 3.5 | 3.4 | 4.7 | 4.7 | — | — | — | — | 22 |

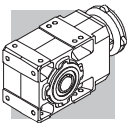
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

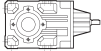
A 60

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|---------------------|-------|--|-----|--------------------|-----|---------------------|-----|--------------|----|------|----|
| | |  SERVO | | | | | | | | | |
| | i | 95A | | 80C 95B 110A | | 95C 110B 130A | | 130B 180A | | 180B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| A 60 2_7.9 | 7.9 | — | — | — | — | — | — | 53 | 55 | 54 | 59 |
| A 60 2_10.3 | 10.3 | — | — | 25 | 26 | 25 | 26 | 40 | 42 | 41 | 46 |
| A 60 2_12.7 | 12.7 | — | — | 19 | 20 | 19 | 20 | 33 | 35 | 35 | 40 |
| A 60 2_16.7 | 16.7 | — | — | 12 | 13 | 12 | 13 | 26 | 29 | 28 | 33 |
| A 60 2_20.6 | 20.6 | — | — | 9.6 | 10 | 9.5 | 10 | 24 | 26 | 26 | 31 |
| A 60 3_25.7 | 25.7 | — | — | 17 | 18 | 17 | 18 | 31 | 33 | 33 | 38 |
| A 60 3_27.9 | 27.9 | — | — | 17 | 18 | 17 | 18 | 31 | 33 | 33 | 38 |
| A 60 3_31.7 | 31.7 | — | — | 13 | 14 | 13 | 14 | 27 | 29 | 29 | 34 |
| A 60 3_34.3 | 34.3 | — | — | 13 | 14 | 13 | 14 | 27 | 29 | 29 | 34 |
| A 60 3_41.7 | 41.7 | — | — | 9.0 | 9.5 | 8.9 | 9.9 | 23 | 26 | 25 | 30 |
| A 60 3_45.2 | 45.2 | — | — | 8.9 | 9.4 | 8.9 | 9.9 | 23 | 26 | 25 | 30 |
| A 60 3_51.3 | 51.3 | — | — | 7.4 | 7.9 | 7.4 | 8.4 | 22 | 24 | 24 | 29 |
| A 60 3_55.6 | 55.6 | — | — | 7.4 | 7.9 | 7.3 | 8.3 | 21 | 24 | 23 | 28 |
| A 60 3_65.0 | 65.0 | 6.0 | 6.5 | 6.1 | 6.6 | 6.0 | 7.0 | 20 | 23 | 22 | 27 |
| A 60 3_70.4 | 70.4 | 6.0 | 6.5 | 6.1 | 6.6 | 6.0 | 7.0 | 20 | 23 | 22 | 27 |
| A 60 3_79.7 | 79.7 | 4.9 | 5.4 | 5.0 | 5.5 | 4.9 | 5.9 | 19 | 22 | 21 | 26 |
| A 60 3_86.4 | 86.4 | 4.9 | 5.4 | 5.0 | 5.5 | 4.9 | 5.9 | 19 | 22 | 21 | 26 |
| A 60 3_99.5 | 99.5 | 4.8 | 5.3 | 4.3 | 4.8 | 4.3 | 5.3 | 19 | 21 | 20 | 25 |
| A 60 3_107.8 | 107.8 | 4.3 | 4.8 | 4.3 | 4.8 | 4.3 | 5.3 | 18 | 21 | 20 | 25 |
| A 60 3_123.0 | 123.0 | 3.9 | 4.4 | 4.0 | 4.5 | 3.9 | 4.9 | 18 | 21 | 20 | 25 |
| A 60 3_133.3 | 133.3 | 3.9 | 4.4 | 3.9 | 4.4 | 3.9 | 4.9 | 18 | 21 | 20 | 25 |
| A 60 3_144.0 | 144.0 | 3.6 | 4.1 | 3.7 | 4.2 | 3.6 | 4.6 | — | — | — | — |
| A 60 3_156.0 | 156.0 | 3.6 | 4.1 | 3.7 | 4.2 | 3.6 | 4.6 | — | — | — | — |
| A 60 3_171.5 | 171.5 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | — | — | — | — |
| A 60 3_185.8 | 185.8 | 3.4 | 3.9 | 3.5 | 4.0 | 3.4 | 4.4 | — | — | — | — |

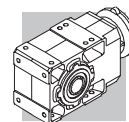
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


A 70

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | | | | | |
|---------------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | |  |  IEC  | | | | | | | | | | |
| | | | 80 | 90 | 100 | 112 | 132 | 160 | 180 | 200 | 225 | 250 | |
| A 70 3_9.4 | 9.4 | — | — | — | — | — | — | 187 | 185 | 194 | — | — | 150 |
| A 70 3_10.2 | 10.2 | — | — | — | — | — | — | 183 | 180 | 190 | — | — | 146 |
| A 70 3_12.1 | 12.1 | — | — | — | — | — | — | 150 | 148 | 157 | — | — | 113 |
| A 70 3_13.1 | 13.1 | — | — | — | — | — | — | 147 | 145 | 154 | — | — | 111 |
| A 70 3_15.4 | 15.4 | 45 | — | — | — | — | 64 | 124 | 121 | 161 | — | — | 87 |
| A 70 3_16.7 | 16.7 | 44 | — | — | — | — | 63 | 122 | 120 | 129 | — | — | 85 |
| A 70 3_19.7 | 19.7 | 30 | — | — | — | — | 49 | 109 | 107 | — | — | — | 72 |
| A 70 3_21.3 | 21.3 | 29 | — | — | — | — | 48 | 108 | 106 | — | — | — | 71 |
| A 70 3_23.5 | 23.5 | — | — | — | — | — | — | 116 | 114 | 123 | — | — | 79 |
| A 70 3_27.8 | 27.8 | — | — | — | — | — | — | 118 | 116 | 125 | — | — | 81 |
| A 70 3_30.1 | 30.1 | — | — | — | — | — | — | 117 | 115 | 124 | — | — | 81 |
| A 70 3_35.4 | 35.4 | 26 | — | — | — | — | 45 | 104 | 102 | 111 | — | — | 67 |
| A 70 3_38.4 | 38.4 | 25 | — | — | — | — | 44 | 104 | 101 | 111 | — | — | 67 |
| A 70 3_45.2 | 45.2 | 18 | — | — | — | — | 37 | 97 | 94 | — | — | — | 59 |
| A 70 3_49.0 | 49.0 | 18 | — | — | — | — | 37 | 96 | 94 | — | — | — | 59 |
| A 70 3_53.2 | 53.2 | 15 | — | — | — | — | 34 | 93 | 91 | — | — | — | 56 |
| A 70 3_57.7 | 57.7 | 15 | — | — | — | — | 34 | 93 | 91 | — | — | — | 56 |
| A 70 3_66.9 | 66.9 | 9.7 | 12 | 12 | 13 | 13 | 29 | 88 | 86 | — | — | — | 51 |
| A 70 3_72.5 | 72.5 | 9.6 | 12 | 12 | 13 | 13 | 28 | 88 | 86 | — | — | — | 51 |
| A 70 3_79.3 | 79.3 | 6.8 | 9.4 | 9.3 | 11 | 11 | 26 | 85 | 83 | — | — | — | 48 |
| A 70 3_85.9 | 85.9 | 6.7 | 9.3 | 9.3 | 11 | 11 | 26 | 85 | 83 | — | — | — | 48 |
| A 70 3_96.2 | 96.2 | 5.4 | 8.2 | 8.2 | 9.4 | 9.4 | 24 | 84 | 82 | — | — | — | 47 |
| A 70 3_104.2 | 104.2 | 5.4 | 8.2 | 8.1 | 9.4 | 9.4 | 24 | 84 | 81 | — | — | — | 47 |
| A 70 3_120.6 | 120.6 | 3.4 | 6.2 | 6.2 | 7.5 | 7.5 | 22 | 82 | 79 | — | — | — | 45 |
| A 70 3_130.7 | 130.7 | 3.4 | 6.2 | 6.2 | 7.4 | 7.4 | 22 | 82 | 79 | — | — | — | 45 |
| A 70 3_141.9 | 141.9 | 2.4 | 5.3 | 5.2 | 6.5 | 6.5 | 21 | 81 | 78 | — | — | — | 44 |
| A 70 3_153.7 | 153.7 | 2.4 | 5.2 | 5.2 | 6.5 | 6.5 | 21 | 81 | 78 | — | — | — | 44 |

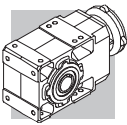
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

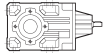
A 80

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|---|----|
| | |  |  IEC | | | | | | | | |  | |
| | | 80 | 90 | 100 | 112 | 132 | 160 | 180 | 200 | 225 | 250 | | |
| A 80 3_9.8 | 9.8 | — | — | — | — | — | — | 320 | 333 | 611 | — | 286 | |
| A 80 3_10.7 | 10.7 | — | — | — | — | — | — | 309 | 323 | 601 | — | 276 | |
| A 80 3_12.3 | 12.3 | — | — | — | — | — | 239 | 239 | 253 | 531 | — | 205 | |
| A 80 3_13.3 | 13.3 | — | — | — | — | — | 232 | 233 | 246 | 524 | — | 199 | |
| A 80 3_15.5 | 15.5 | — | — | — | — | — | 187 | 185 | 194 | 478 | — | 150 | |
| A 80 3_16.7 | 16.7 | — | — | — | — | — | 183 | 180 | 190 | 474 | — | 150 | |
| A 80 3_19.3 | 19.3 | 69 | — | — | — | 88 | 147 | 145 | 154 | 440 | — | 111 | |
| A 80 3_20.9 | 20.9 | 66 | — | — | — | 85 | 145 | 142 | 152 | 437 | — | 108 | |
| A 80 3_22.6 | 22.6 | — | — | — | — | — | — | 205 | 219 | 496 | — | 171 | |
| A 80 3_24.5 | 24.5 | — | — | — | — | — | — | 203 | 217 | 494 | — | 169 | |
| A 80 3_28.2 | 28.2 | — | — | — | — | — | 165 | 166 | 179 | 457 | — | 132 | |
| A 80 3_30.6 | 30.6 | — | — | — | — | — | 164 | 164 | 178 | 456 | — | 130 | |
| A 80 3_35.5 | 35.5 | — | — | — | — | — | 140 | 138 | 147 | 432 | — | 104 | |
| A 80 3_38.5 | 38.5 | — | — | — | — | — | 140 | 137 | 147 | 431 | — | 103 | |
| A 80 3_44.5 | 44.5 | 39 | — | — | — | 58 | 118 | 115 | 125 | 410 | — | 81 | |
| A 80 3_48.2 | 48.2 | 39 | — | — | — | 58 | 117 | 115 | 124 | 410 | — | 90 | |
| A 80 3_55.2 | 55.2 | 29 | — | — | — | 48 | 108 | 105 | 136 | 399 | — | 70 | |
| A 80 3_59.8 | 59.8 | 29 | — | — | — | 48 | 107 | 105 | 136 | 399 | — | 70 | |
| A 80 3_66.8 | 66.8 | 22 | — | — | — | 41 | 101 | 98 | 128 | 391 | — | 63 | |
| A 80 3_72.4 | 72.4 | 22 | — | — | — | 41 | 100 | 98 | 128 | 391 | — | 63 | |
| A 80 3_82.3 | 82.3 | 15 | 17 | 17 | 18 | 18 | 34 | 94 | 91 | 120 | 384 | — | 56 |
| A 80 3_89.2 | 89.2 | 15 | 17 | 17 | 18 | 18 | 34 | 93 | 91 | 120 | 386 | — | 56 |
| A 80 3_96.0 | 96.0 | 14 | 16 | 16 | 17 | 17 | 32 | 92 | 90 | 119 | 382 | — | 55 |
| A 80 3_104.0 | 104.0 | 13 | 16 | 16 | 17 | 17 | 32 | 92 | 89 | 119 | 382 | — | 55 |
| A 80 3_116.0 | 116.0 | 9.1 | 12 | 12 | 13 | 13 | 28 | 87 | 85 | — | — | — | 50 |
| A 80 3_125.6 | 125.6 | 9.1 | 12 | 12 | 13 | 13 | 28 | 87 | 85 | — | — | — | 50 |
| A 80 3_144.7 | 144.7 | 5.4 | 8.3 | 8.2 | 10 | 10 | 24 | 84 | 82 | — | — | — | 47 |
| A 80 3_156.8 | 156.8 | 5.4 | 3.0 | 2.9 | 4.2 | 4.2 | 19 | 78 | 76 | — | — | — | 41 |

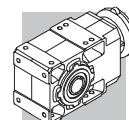
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



A 90

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | | | | | |
|---------------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | | | | | |  |
| | | | 80 | 90 | 100 | 112 | 132 | 160 | 180 | 200 | 225 | 250 | |
| A 90 3_9.7 | 9.7 | — | — | — | — | — | — | — | 597 | 611 | 889 | 918 | 898 |
| A 90 3_10.5 | 10.5 | — | — | — | — | — | — | — | 575 | 589 | 867 | 896 | 876 |
| A 90 3_12.6 | 12.6 | — | — | — | — | — | — | — | 402 | 416 | 693 | 723 | 703 |
| A 90 3_13.7 | 13.7 | — | — | — | — | — | — | — | 389 | 403 | 681 | 710 | 690 |
| A 90 3_15.6 | 15.6 | — | — | — | — | — | — | — | 306 | 319 | 597 | 627 | 607 |
| A 90 3_16.9 | 16.9 | — | — | — | — | — | — | — | 297 | 311 | 589 | 618 | 598 |
| A 90 3_19.4 | 19.4 | — | — | — | — | — | — | 236 | 234 | 243 | 527 | 559 | 530 |
| A 90 3_21.0 | 21.0 | — | — | — | — | — | — | 231 | 228 | 238 | 522 | 553 | 524 |
| A 90 3_22.3 | 22.3 | — | — | — | — | — | — | — | 326 | 340 | 618 | 647 | 627 |
| A 90 3_24.1 | 24.1 | — | — | — | — | — | — | — | 322 | 336 | 614 | 643 | 623 |
| A 90 3_29.1 | 29.1 | — | — | — | — | — | — | — | 243 | 257 | 535 | 564 | 544 |
| A 90 3_31.5 | 31.5 | — | — | — | — | — | — | — | 241 | 254 | 532 | 562 | 542 |
| A 90 3_35.8 | 35.8 | — | — | — | — | — | — | — | 201 | 215 | 493 | 522 | 502 |
| A 90 3_38.8 | 38.8 | — | — | — | — | — | — | — | 200 | 213 | 491 | 521 | 500 |
| A 90 3_44.6 | 44.6 | — | — | — | — | — | — | 169 | 166 | 176 | 460 | 491 | 462 |
| A 90 3_48.3 | 48.3 | — | — | — | — | — | — | 168 | 165 | 175 | 459 | 490 | 461 |
| A 90 3_55.0 | 55.0 | 66 | — | — | — | — | 85 | 144 | 142 | 151 | 437 | 468 | 438 |
| A 90 3_59.6 | 59.6 | 66 | — | — | — | — | 84 | 144 | 141 | 151 | 436 | 468 | 437 |
| A 90 3_68.8 | 68.8 | 48 | — | — | — | — | 67 | 126 | 124 | 154 | 418 | 449 | 416 |
| A 90 3_74.5 | 74.5 | 47 | — | — | — | — | 66 | 126 | 123 | 154 | 417 | 449 | 416 |
| A 90 3_80.4 | 80.4 | 43 | — | — | — | — | 62 | 121 | 119 | 149 | 412 | 443 | 412 |
| A 90 3_87.1 | 87.1 | 43 | — | — | — | — | 62 | 121 | 119 | 148 | 412 | 443 | 412 |
| A 90 3_98.6 | 98.6 | 28 | 30 | 30 | 32 | 32 | 47 | 106 | 104 | 134 | 397 | 428 | 399 |
| A 90 3_106.8 | 106.8 | 28 | 30 | 30 | 31 | 31 | 47 | 106 | 104 | 133 | 397 | 428 | 399 |
| A 90 3_116.9 | 116.9 | 23 | 25 | 25 | 26 | 26 | 41 | 101 | 99 | 128 | 391 | 423 | 394 |
| A 90 3_126.6 | 126.6 | 22 | 25 | 25 | 26 | 26 | 41 | 101 | 98 | 128 | 391 | 422 | 394 |
| A 90 3_139.4 | 139.4 | 15 | 17 | 17 | 19 | 19 | 33 | 93 | 91 | — | — | — | 386 |
| A 90 3_151.0 | 151.0 | 14 | 3.0 | 3.0 | 4.3 | 4.3 | 19 | 79 | 76 | — | — | — | 372 |

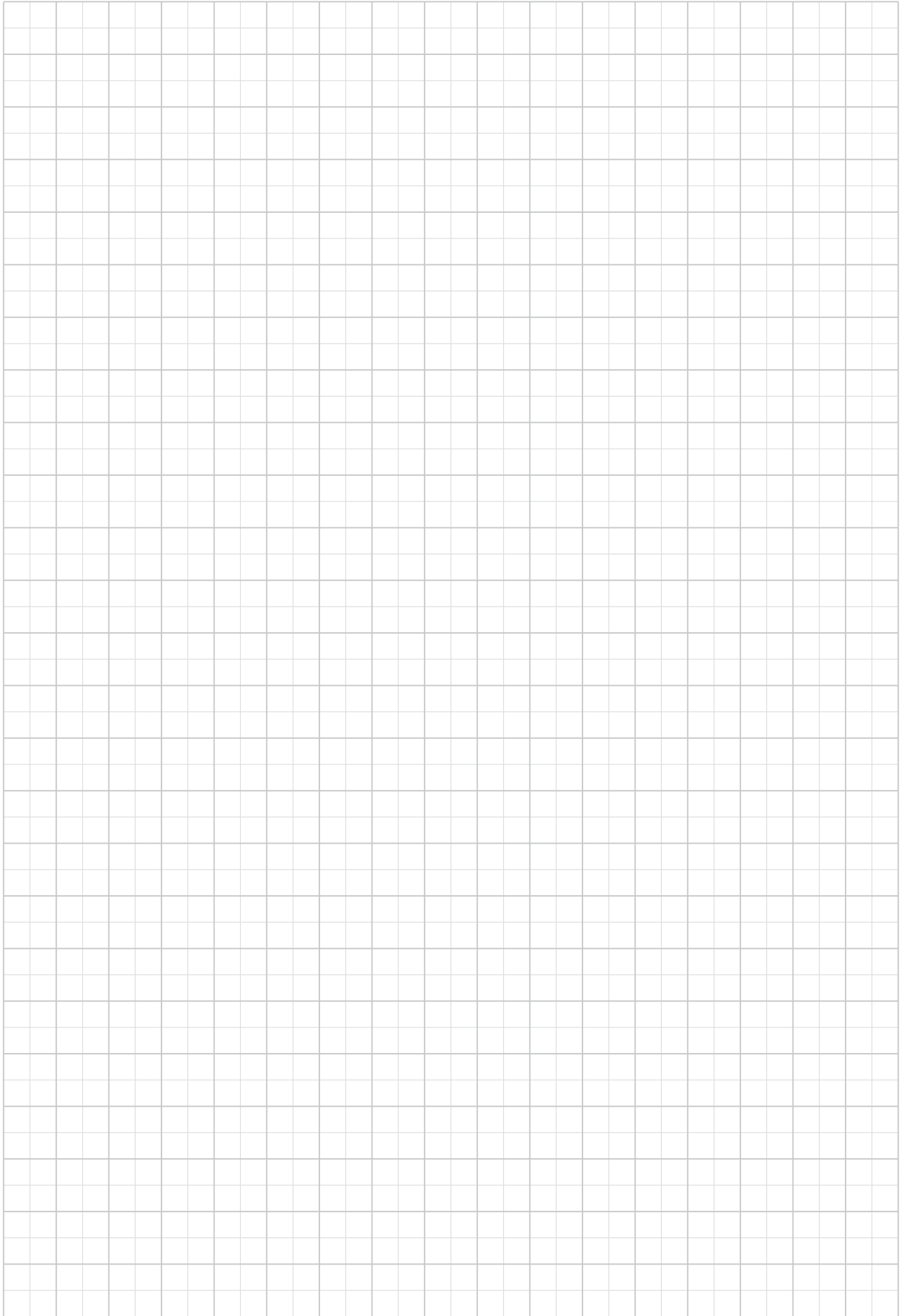
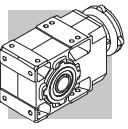
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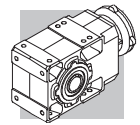


43 RAPPORTS EXACTS

| i_N | A 05 | A 10 | A 20 | A 30 | A 35 | A 41 | A 50 | A 55 | A 60 | A 70 | A 80 | A 90 |
|--------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| 5.0 | | | | | | | | 4.94505 | | | | |
| 5.6 | 5.46559 | 5.46559 | 5.35117 | 5.41311 | 5.41311 | 5.24476 | | | | | | |
| 6.3 | 6.33484 | 6.33484 | 6.53846 | 6.41026 | 6.41026 | | | 6.41026 | | | | |
| 7.1 | 7.21154 | 7.21154 | 7.28745 | 7.02341 | 7.02341 | 7.12251 | | | | | | |
| 8.0 | 8.51648 | 8.51648 | 8.37104 | 8.46154 | 8.46154 | 8.33333 | 7.73684 | 8.46154 | 7.86420 | | | |
| 9.0 | 9.61538 | 9.61538 | 9.37500 | 9.31174 | 9.31174 | 9.19732 | | | | 9.43946 | | 9.67545 |
| 10.0 | 10.55639 | 10.55639 | 10.33540 | 10.45503 | 10.63348 | 10.12987 | 9.73401 | 10.35503 | 10.31579 | 10.22609 | 9.83278 | 10.48174 |
| 11.2 | | | | 11.77885 | 11.77885 | 11.74089 | | | | 12.08027 | 10.65217 | 12.64214 |
| 12.5 | 12.30769 | 12.30769 | 11.96581 | | 13.06878 | | 13.10700 | 13.07692 | 12.70370 | 13.08696 | 12.27130 | 13.69565 |
| 14.0 | 13.92857 | 13.92857 | 14.07519 | 13.56522 | 15.47619 | 13.75661 | | | | 15.40468 | 13.29391 | 15.57512 |
| 16.0 | 16.44898 | 16.44898 | 16.16807 | 16.34286 | 16.95652 | 16.09524 | 16.57005 | 15.68047 | 16.73663 | 16.68841 | 15.45151 | 16.87304 |
| 18.0 | 18.57143 | 18.57143 | 18.10714 | 17.98496 | | 17.76398 | | | | | 19.33779 | 19.38462 |
| 20.0 | 21.35714 | 21.35714 | 21.22449 | 20.53782 | 20.42857 | | 20.91813 | 19.23077 | 20.5942 | 19.66555 | 20.94928 | 21.00000 |
| 22.4 | 23.77143 | 23.77143 | 23.11111 | 22.75000 | 22.48120 | 22.67669 | | | | 21.30435 | 22.61538 | 22.25354 |
| 25.0 | 25.46939 | 25.46939 | 26.46429 | 26.53061 | 25.67227 | | 24.04795 | 23.79021 | 25.71012 | 23.52000 | 24.50000 | 24.10800 |
| 28.0 | 28.57143 | 28.57143 | 29.21905 | 29.30159 | 28.43750 | 28.32143 | 26.43733 | | 27.85263 | 27.78462 | 28.22400 | 29.07692 |
| 31.5 | 32.19048 | 32.19048 | 31.30612 | 33.42857 | 33.16327 | | 32.38095 | 29.93134 | 31.66154 | 30.10000 | 30.57600 | 31.50000 |
| 35.5 | 35.11688 | 35.11688 | 35.42857 | 36.64762 | 36.62698 | 35.90476 | 35.59829 | | 34.30000 | 35.43077 | 35.53846 | 35.82277 |
| 40.0 | 40.85714 | 40.85714 | 39.61905 | 39.26531 | 41.78571 | 45.06667 | 40.93645 | 40.30303 | 41.71282 | 38.38333 | 38.50000 | 38.80800 |
| 45.0 | 45.39683 | 45.39683 | 43.22078 | 43.42857 | 45.80952 | 48.28571 | 45.00386 | | 45.18889 | 45.23077 | 44.47692 | 44.58462 |
| 50.0 | 51.25714 | 51.25714 | 48.28571 | 48.28571 | 49.08163 | 53.14286 | 51.67843 | 50.95166 | 51.32709 | 49.00000 | 48.18333 | 48.30000 |
| 56.0 | 58.60317 | 58.60317 | 53.65079 | 52.67532 | 54.28571 | 58.80952 | 56.81314 | | 55.60435 | 53.23314 | 55.18154 | 55.03077 |
| 63.0 | 65.92857 | 65.92857 | 63.14286 | 59.42857 | 60.35714 | 64.15584 | 63.89011 | 64.32168 | 64.98947 | 66.94154 | 66.80237 | 59.61667 |
| 71.0 | | | 70.98413 | 66.03175 | 65.84416 | 71.31429 | 70.23817 | | 70.40526 | 72.52000 | 72.36923 | 68.75077 |
| 80.0 | 76.40816 | 76.40816 | 79.85714 | 76.51429 | 74.28571 | 79.23810 | 81.45055 | 79.52098 | 79.71923 | 79.32781 | 82.32000 | 80.37160 |
| 90.0 | 91.61905 | 91.61905 | 92.32653 | 86.66667 | 82.53968 | 92.76828 | 89.54339 | | 86.36250 | 85.93846 | 89.18000 | 87.06923 |
| 100.0 | | | | 97.50000 | 95.64286 | | 99.53407 | 101.37762 | 99.50769 | 96.21818 | 104.03077 | 98.60308 |
| 112.2 | | | 109.16518 | 109.07029 | 105.54155 | 115.86039 | 109.42367 | 123.88531 | 107.80000 | 104.23636 | 115.95524 | 116.90414 |
| 125.0 | | | 120.52857 | 120.46208 | 116.90972 | | 129.67046 | 132.73427 | 123.02769 | 120.61538 | 125.61818 | 126.64615 |
| 140.0 | | | 146.14286 | 137.42857 | 136.33787 | 146.88312 | 140.61938 | 146.80796 | 144.04260 | 141.86014 | 144.73846 | 139.39301 |
| 160.0 | | | 163.42857 | 161.42404 | 150.57760 | | 154.59118 | 160.43706 | 171.46573 | 169.75499 | 156.80000 | 166.12694 |
| 180.0 | | | 178.28571 | 178.53968 | 171.78571 | 184.36364 | 173.36264 | 175.02225 | 185.75455 | 183.90123 | 171.29752 | 179.97085 |
| 200.0 | | | 199.17857 | 198.50794 | 201.78005 | 197.53247 | 190.58777 | 194.19860 | 208.73017 | | 214.73193 | 209.01044 |
| 225.0 | | | 221.30952 | 216.55411 | 223.17460 | 217.40260 | 231.98700 | 208.05260 | 226.12435 | 220.25418 | 232.62626 | 226.42797 |
| 250.0 | | | 260.46429 | 244.31746 | 248.13492 | 240.58442 | 260.88462 | | 264.29053 | 238.60870 | | |
| 280.0 | | | 292.80952 | 271.46384 | 270.69264 | 291.74026 | 286.80584 | 262.64685 | 286.31474 | 292.01619 | 277.28428 | 281.43590 |
| 315.0 | | | 329.41071 | 314.55873 | 305.39683 | 324.15584 | 332.58974 | | 324.19154 | 316.35088 | 300.39130 | 304.88889 |
| 355.0 | | | | 356.29630 | 339.32981 | 376.83117 | 365.63552 | 324.71066 | 351.20750 | 369.38462 | 353.96864 | 355.79521 |
| 400.0 | | | 380.84694 | 400.83333 | 393.19841 | | 406.43077 | | 404.66462 | 400.16667 | 383.46603 | 385.44482 |
| 450.0 | | | | | | | 446.81331 | 413.95862 | 438.38667 | 475.76068 | 442.07937 | 449.15802 |
| 500.0 | | | | | | | 481.63314 | 505.86503 | 500.31262 | 515.40741 | 478.91932 | 486.58785 |
| 560.0 | | | | | | | 574.19580 | 541.99825 | 585.77325 | 595.03590 | 560.45035 | 555.29467 |
| 630.0 | | | | | | | 631.24731 | 655.11801 | 634.58769 | 644.62222 | 607.15455 | 601.56923 |
| 710.0 | | | | | | | 707.89744 | 714.67419 | 697.29399 | 705.13609 | 703.46182 | 707.91953 |
| 800.0 | | | | | | | 778.23340 | 792.97762 | 755.40182 | | 829.52598 | 766.91282 |
| 900.0 | | | | | | | | | | 926.54545 | 898.65315 | 865.09065 |
| 1000.0 | | | | | | | | | | 1072.13675 | 1001.43166 | 1025.1594 |
| 1125.0 | | | | | | | | | | 1161.48148 | 1084.88430 | 1110.58935 |
| 1250.0 | | | | | | | | | | 1242.33846 | 1236.85594 | 1222.17967 |
| 1400.0 | | | | | | | | | | 1345.86667 | 1339.92727 | 1324.02797 |
| 1600.0 | | | | | | | | | | 1583.07692 | 1557.66545 | 1506.76450 |
| 1800.0 | | | | | | | | | | 1715.00000 | | 1632.32821 |

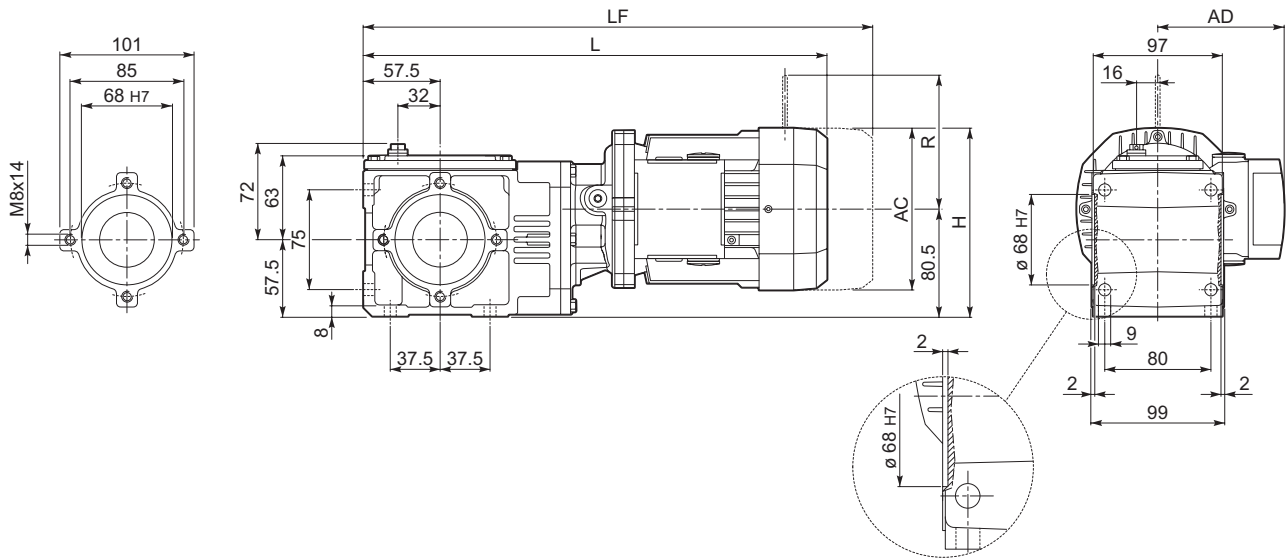






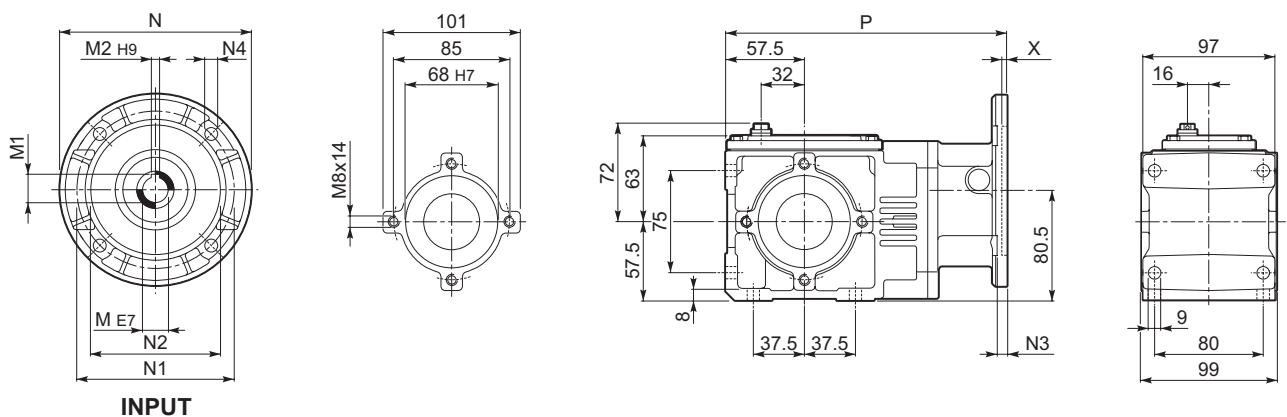
44 DIMENSIONS

A 05...M



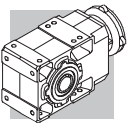
| | | | AC | H | L | AD | | M...FD M...FA | | M...FD | | M...FA | |
|--------|-----|-----|-----|-------|-------|-----|------|------------------|----|--------|-----|--------|-----|
| | | | | | | | | LF | | R | AD | R | AD |
| A 05 2 | S05 | M05 | 121 | 141 | 360.5 | 95 | 7.5 | 426.5 | 9 | 96 | 122 | 116 | 95 |
| A 05 2 | S1 | M1 | 138 | 149.5 | 389.5 | 108 | 11.5 | 450.5 | 14 | 103 | 135 | 124 | 108 |
| A 05 2 | S2 | M2S | 156 | 158.5 | 418.5 | 119 | 15.5 | 488.5 | 19 | 129 | 146 | 134 | 119 |

A 05...P(IEC)

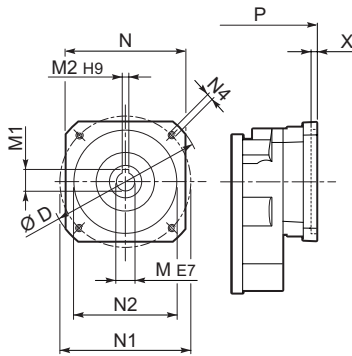
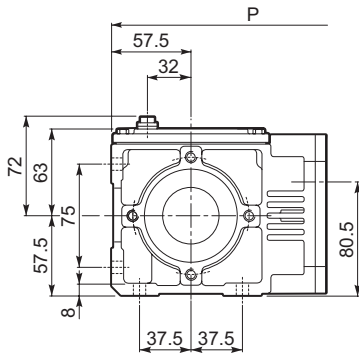


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | |
|--------|-----|----|-------|----|-----|-----|-----|----|------|-----|-----|-----|
| A 05 2 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | 7 | 9.5 | 3.5 | 206 | 5 |
| A 05 2 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | 7 | 9.5 | 4 | 213 | 5 |
| A 05 2 | P80 | 19 | 20.8# | 6 | 200 | 165 | 130 | 7 | 11.5 | 4 | 223 | 5.5 |

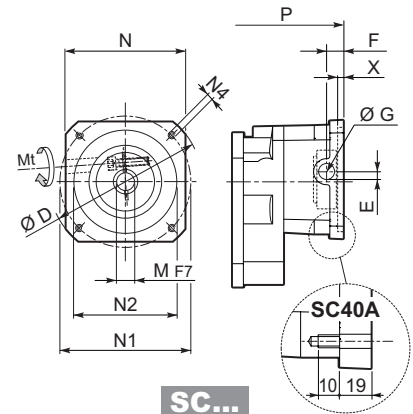
Clavette de type rabaissé de fourniture Bonfiglioli



A 05...SK / SC



SK...

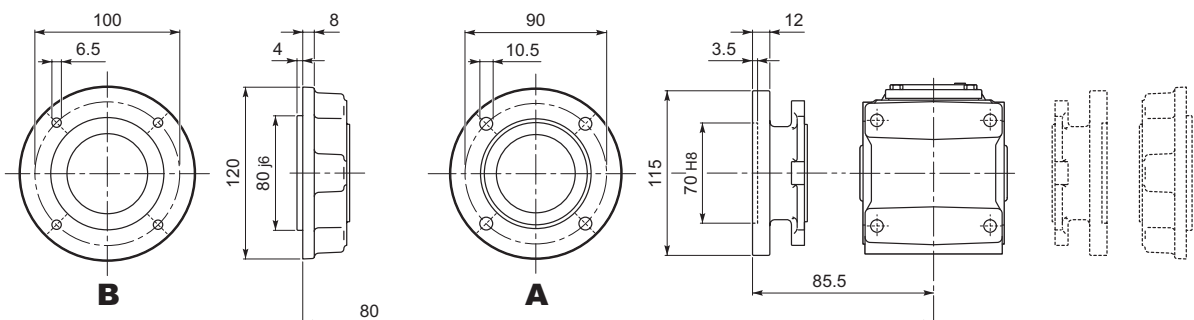


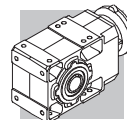
SC...

| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | kg |
|--------|-------|-----|----|------|----|----|-----|----|-------|-----|-------|----|
| | | | | | | | | | | | | |
| A 05 2 | SK40A | 74 | 9 | 10.4 | 3 | 55 | 63 | 40 | M5x10 | 3 | 207.5 | 5 |
| A 05 2 | SK60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 206 | 5 |
| A 05 2 | SK60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 213 | 5 |
| A 05 2 | SK80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 213 | 5 |

| | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | kg |
|--------|-------|----------|-----|------|------|------|----|----|-----|----|-------|---|-------|----|
| | | | | | | | | | | | | | | |
| A 05 2 | SC40A | M5 15 Nm | 74 | 10.5 | 9.5 | 12.5 | 9 | 55 | 63 | 40 | M5x10 | 3 | 226.5 | 6 |
| A 05 2 | SC60A | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 233 | 6 |
| A 05 2 | SC60B | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 233 | 6 |
| A 05 2 | SC80A | M6 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 233 | 6 |

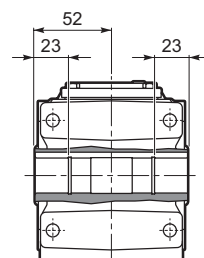
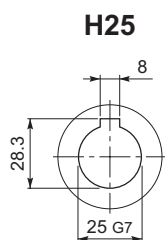
A 05...F...



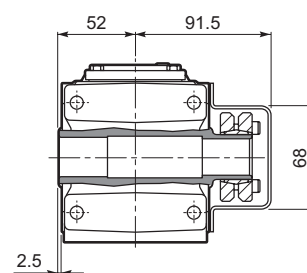
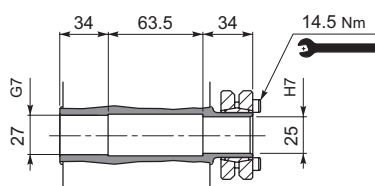


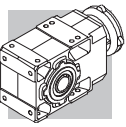
A 05

A 05...UH

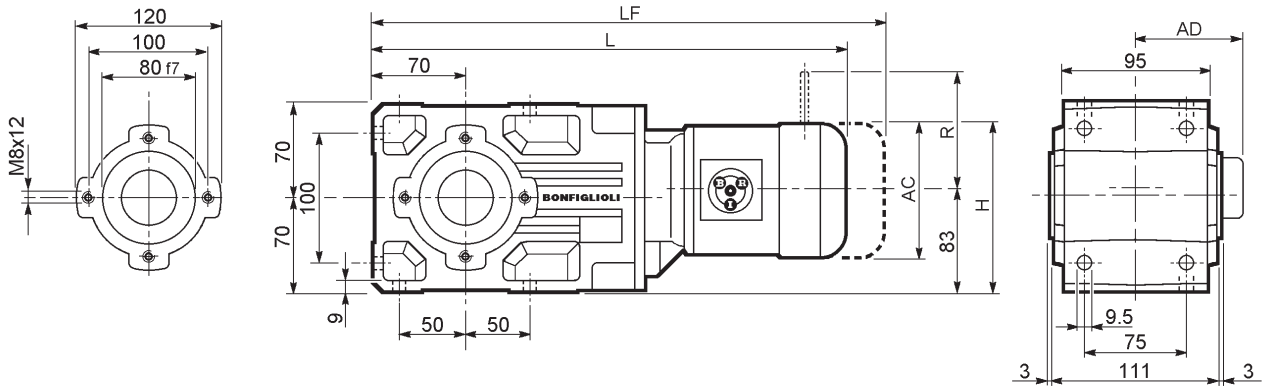


A 05...US

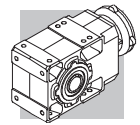




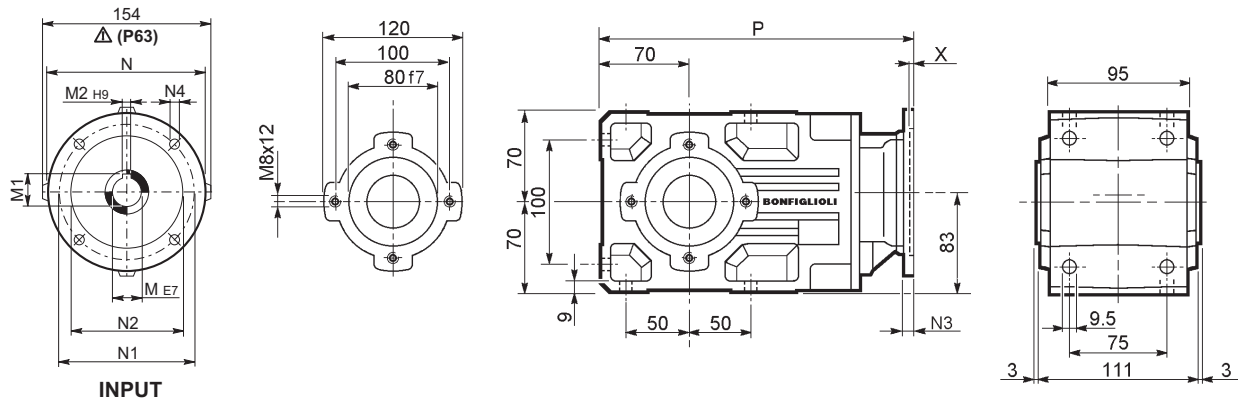
A 10...M



| | | | AC | H | L | AD | Kg | M...FD M...FA | | M...FD | | M...FA | |
|---------------|------------|------------|-----|-------|-------|-----|----|------------------|----|--------|-----|--------|-----|
| | | | | | | | | LF | Kg | R | AD | R | AD |
| | | | | | | | | | | | | | |
| A 10 2 | S05 | M05 | 121 | 143.5 | 408.5 | 95 | 12 | 474.5 | 14 | 96 | 122 | 116 | 95 |
| A 10 2 | S1 | M1 | 138 | 152 | 437.5 | 108 | 14 | 498.5 | 17 | 103 | 135 | 124 | 108 |
| A 10 2 | S2 | M2S | 156 | 161 | 466.5 | 119 | 18 | 536.5 | 22 | 129 | 146 | 134 | 119 |
| A 10 2 | S3 | M3S | 195 | 180.5 | 509.5 | 142 | 23 | 605.5 | 30 | 160 | 158 | 160 | 142 |
| A 10 2 | S3 | M3L | 195 | 180.5 | 541.5 | 142 | 30 | 632.5 | 37 | 160 | 158 | 160 | 142 |

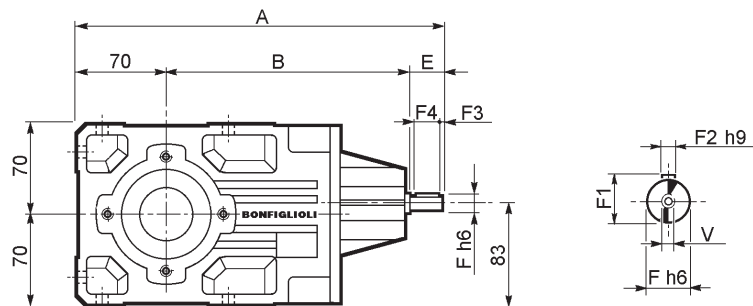


A 10...P(IEC)

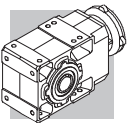


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | |
|---------------|-------------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| A 10 2 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x10 | 4 | 282.5 | 8 |
| A 10 2 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x10 | 4.5 | 282.5 | 9 |
| A 10 2 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 302 | 9 |
| A 10 2 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 302 | 9 |
| A 10 2 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 312 | 13 |
| A 10 2 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 312 | 13 |

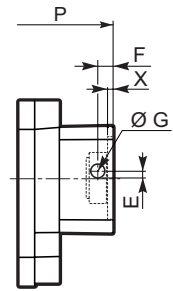
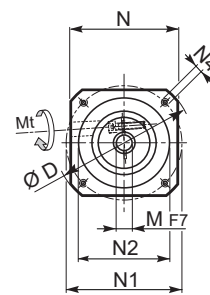
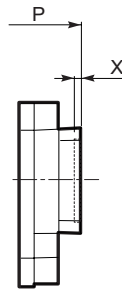
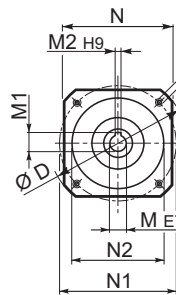
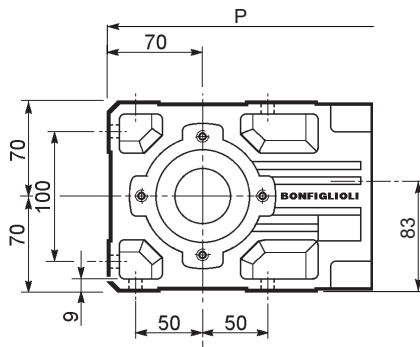
A 10...HS



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | |
|---------------|-----------|-------|-------|----|----|----|----|-----|----|-------|-----|
| A 10 2 | HS | 289.5 | 179.5 | 40 | 16 | 18 | 5 | 2.5 | 35 | M6x16 | 7.8 |



A 10...SK / SC



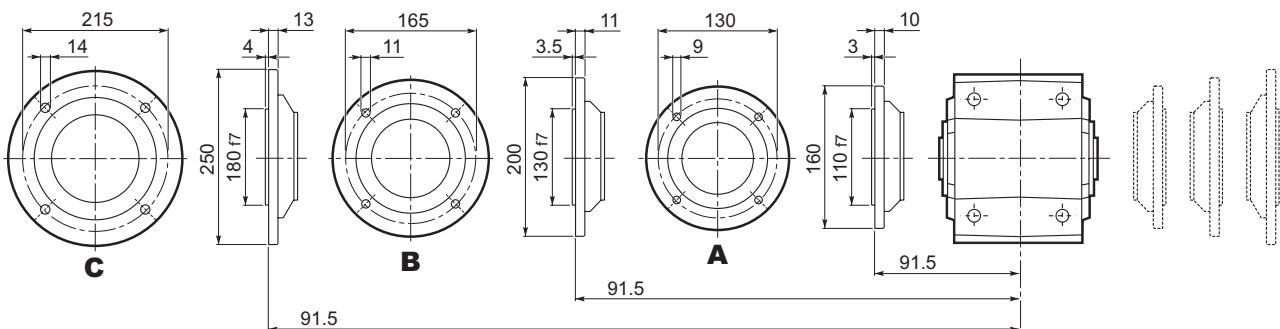
SK...

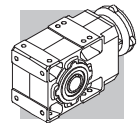
SC...

| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | Kg | |
|--|--|---------------|-----|----|------|---|-----|-----|-----|-------|-----|-----|---|
| | | A 10 2 SK60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 254 | 8 |
| | | A 10 2 SK60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 261 | 8 |
| | | A 10 2 SK80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 261 | 8 |
| | | A 10 2 SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 302 | 9 |
| | | A 10 2 SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 302 | 9 |
| | | A 10 2 SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 302 | 9 |
| | | A 10 2 SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 302 | 9 |
| | | A 10 2 SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 302 | 9 |
| | | A 10 2 SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 302 | 9 |

| | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | Kg |
|--|--|---------------|----------|-----|------|------|----|-----|-----|-----|-------|---|-------|----|
| | | A 10 2 SC60A | M6 15 Nm | 102 | 7 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 281 | 9 |
| | | A 10 2 SC60B | M6 15 Nm | 102 | 7 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 281 | 9 |
| | | A 10 2 SC80A | M6 15 Nm | 115 | 6 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 281 | 9 |
| | | A 10 2 SC80C | M6 15 Nm | 120 | 15.5 | 14.5 | 19 | 96 | 100 | 80 | M6x12 | 4 | 325.5 | 10 |
| | | A 10 2 SC95A | M6 15 Nm | 130 | 16.5 | 15 | 14 | 102 | 115 | 95 | M8x16 | 4 | 325.5 | 10 |
| | | A 10 2 SC95B | M6 15 Nm | 130 | 16.5 | 15 | 19 | 102 | 115 | 95 | M8x16 | 4 | 325.5 | 10 |
| | | A 10 2 SC95C | M6 15 Nm | 130 | 16.5 | 15 | 24 | 102 | 115 | 95 | M8x16 | 4 | 325.5 | 10 |
| | | A 10 2 SC110A | M6 15 Nm | 150 | 16.5 | 16 | 19 | 120 | 130 | 110 | M8x16 | 5 | 325.5 | 12 |
| | | A 10 2 SC110B | M6 15 Nm | 150 | 16.5 | 16 | 24 | 120 | 130 | 110 | M8x16 | 5 | 325.5 | 12 |

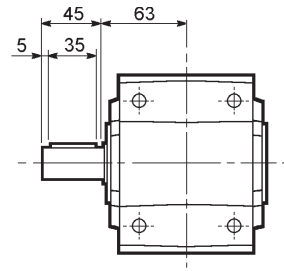
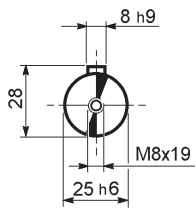
A 10...F...



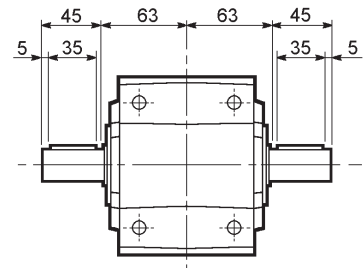
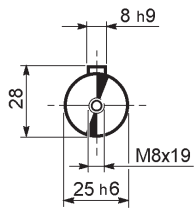


A 10

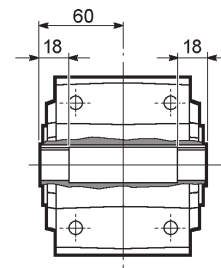
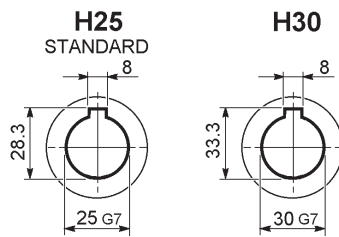
A 10...UR



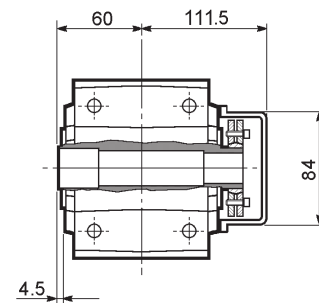
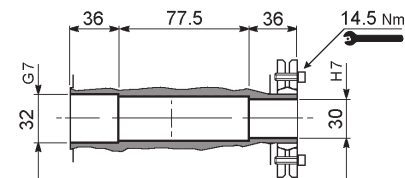
A 10...UD



A 10...UH

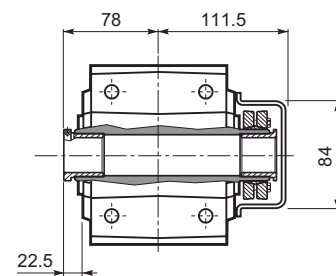
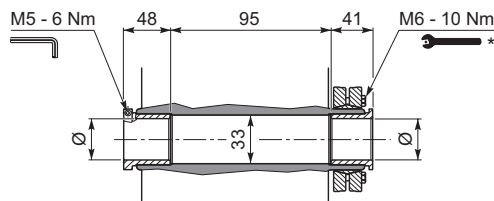


A 10...US

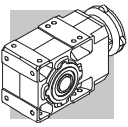


A 10...QF

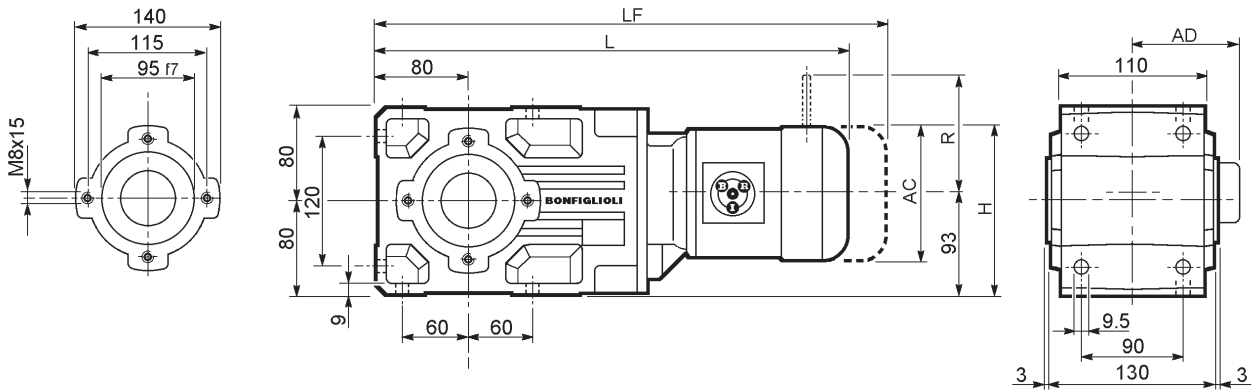
| | Ø |
|------|----|
| QF25 | 25 |
| QF30 | 30 |



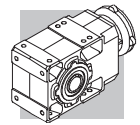
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



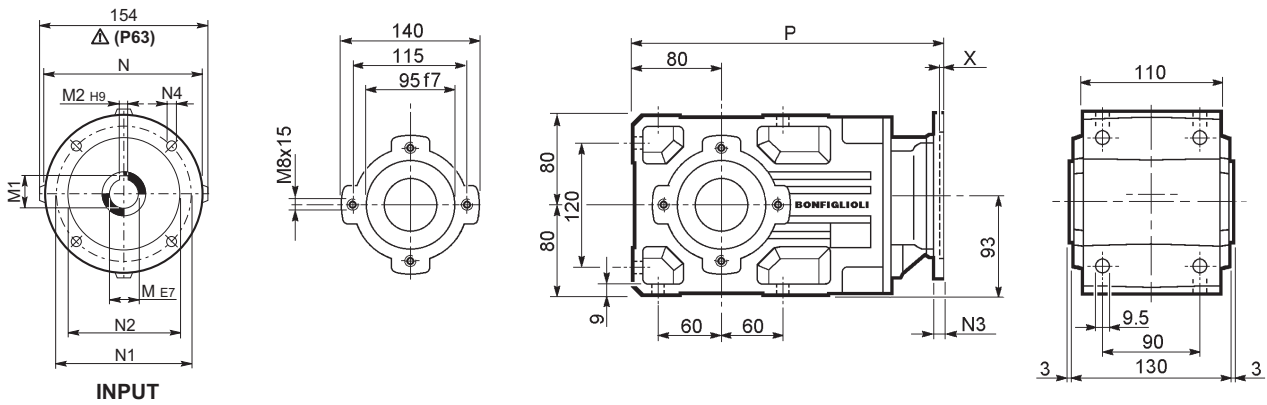
A 20...M



| | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|---------------|------------|------------|-----|-------|-------|-----|----|-------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | AD | | LF | | R | AD | R | AD | |
| A 20 2 | S05 | M05 | 121 | 143.5 | 432 | 95 | 16 | 498 | 18 | 96 | 122 | 116 | 95 | |
| A 20 2 | S1 | M1 | 138 | 152 | 461 | 108 | 18 | 522 | 21 | 103 | 135 | 124 | 108 | |
| A 20 2 | S2 | M2S | 156 | 161 | 490 | 119 | 22 | 560 | 26 | 129 | 146 | 134 | 119 | |
| A 20 2 | S3 | M3S | 195 | 180.5 | 533 | 142 | 27 | 629 | 34 | 160 | 158 | 160 | 142 | |
| A 20 2 | S3 | M3L | 195 | 180.5 | 565 | 142 | 34 | 656 | 41 | 160 | 158 | 160 | 142 | |
| A 20 3 | S05 | M05 | 121 | 143.5 | 457.5 | 95 | 16 | 553.5 | 18 | 96 | 122 | 116 | 95 | |
| A 20 3 | S1 | M1 | 138 | 152 | 486.5 | 108 | 19 | 577.5 | 21 | 103 | 135 | 124 | 108 | |
| A 20 3 | S2 | M2S | 156 | 161 | 545.5 | 119 | 23 | 615.5 | 27 | 129 | 146 | 134 | 119 | |
| A 20 3 | S3 | M3S | 195 | 180.5 | 588.5 | 142 | 28 | 684.5 | 35 | 160 | 158 | 160 | 142 | |
| A 20 3 | S3 | M3L | 195 | 180.5 | 620.5 | 142 | 35 | 711.5 | 42 | 160 | 158 | 160 | 142 | |

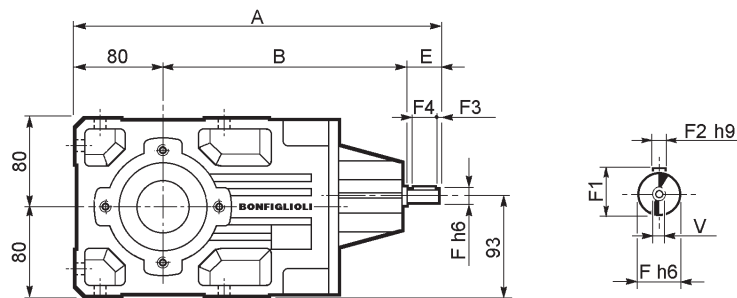


A 20...P(IEC)

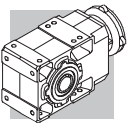


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg | | |
|--|--|--------|------|----|------|----|-----|-----|-----|---|--------|-----|-------|----|
| | | A 20 2 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 306 | 12 |
| | | A 20 2 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 306 | 12 |
| | | A 20 2 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 325.5 | 13 |
| | | A 20 2 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 325.5 | 13 |
| | | A 20 2 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 335.5 | 17 |
| | | A 20 2 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 335.5 | 17 |
| | | A 20 3 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 361.5 | 13 |
| | | A 20 3 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 361.5 | 13 |
| | | A 20 3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 381 | 14 |
| | | A 20 3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 381 | 14 |
| | | A 20 3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 391 | 18 |
| | | A 20 3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 391 | 18 |

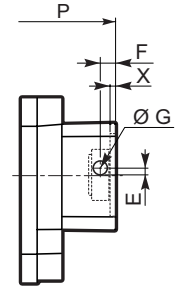
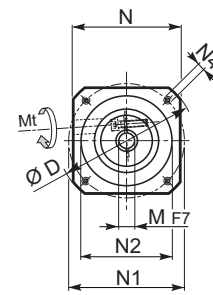
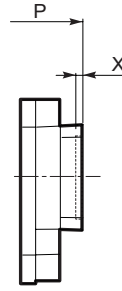
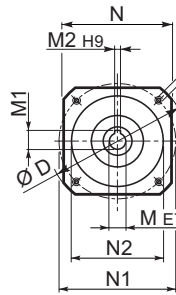
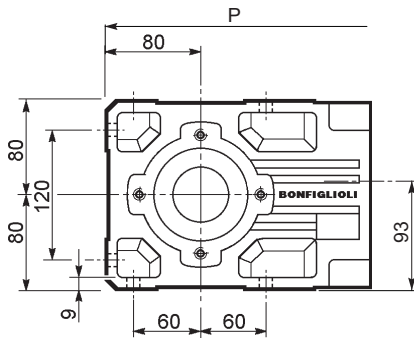
A 20...HS



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg | | |
|--|--|--------|----|-------|-------|----|----|------|----|-----|----|-------|------|
| | | A 20 2 | HS | 356 | 236 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 11.9 |
| | | A 20 3 | HS | 368.5 | 248.5 | 40 | 16 | 18 | 5 | 2.5 | 35 | M6x16 | 12.2 |



A 20...SK / SC



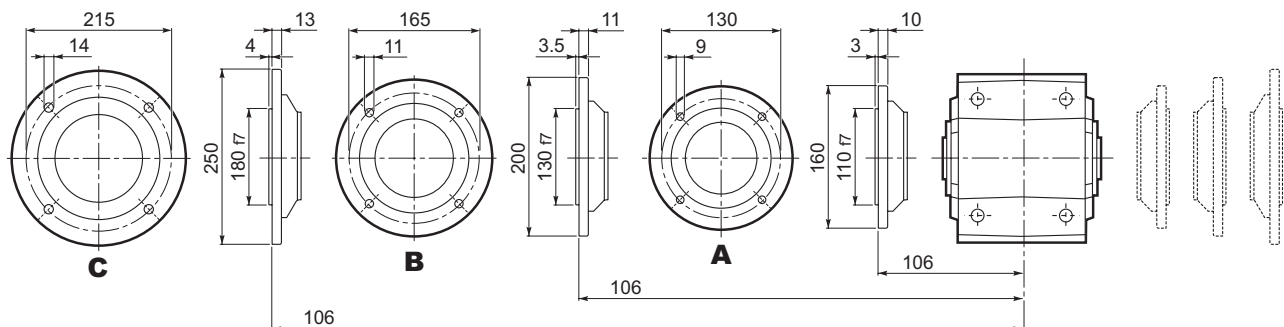
SK...

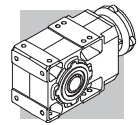
SC...

| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|----------|--------|-----|----|------|----|-----|-----|-----|-------|-----|-------|-----|-------|
| | | | | | | | | | | | 2x | 3x | |
| A 20 2/3 | SK60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 277.5 | 333 | 11/12 |
| A 20 2/3 | SK60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 284.5 | 340 | 12/13 |
| A 20 2/3 | SK80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 284.5 | 340 | 12/13 |
| A 20 2/3 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 325.5 | 381 | 13/14 |
| A 20 2/3 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 325.5 | 381 | 13/14 |
| A 20 2/3 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 325.5 | 381 | 13/14 |
| A 20 2/3 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 325.5 | 381 | 13/14 |
| A 20 2/3 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 325.5 | 381 | 13/14 |
| A 20 2/3 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 325.5 | 381 | 13/14 |

| | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|----------|--------|----------|-----|------|------|-------|----|-----|-----|-----|-------|---|-------|-------|-------|
| | | | | | | | | | | | | | 2x | 3x | |
| A 20 2/3 | SC60A | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 304.5 | 360 | 12/13 |
| A 20 2/3 | SC60B | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 304.5 | 360 | 13/14 |
| A 20 2/3 | SC80A | M6 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 304.5 | 360 | 13/14 |
| A 20 2/3 | SC80C | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 349 | 404.5 | 14/15 |
| A 20 2/3 | SC95A | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 349 | 404.5 | 14/15 |
| A 20 2/3 | SC95B | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 349 | 404.5 | 14/15 |
| A 20 2/3 | SC95C | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 349 | 404.5 | 14/15 |
| A 20 2/3 | SC110A | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 349 | 404.5 | 15/16 |
| A 20 2/3 | SC110B | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 349 | 404.5 | 15/16 |

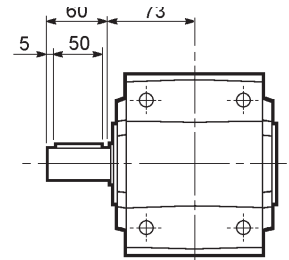
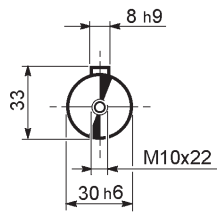
A 20...F...



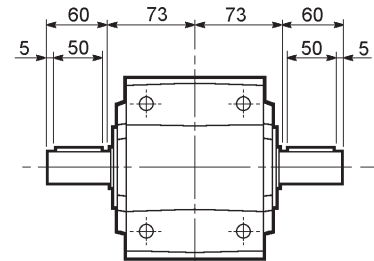
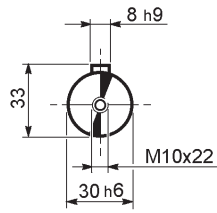


A 20

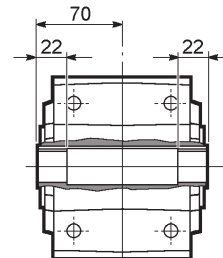
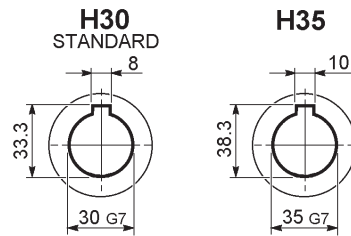
A 20...UR



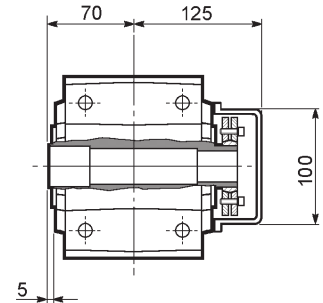
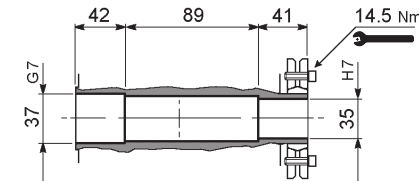
A 20...UD



A 20...UH

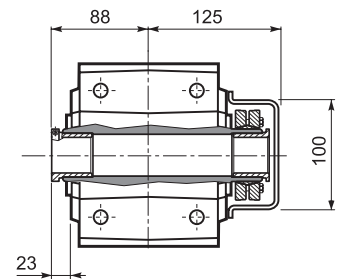
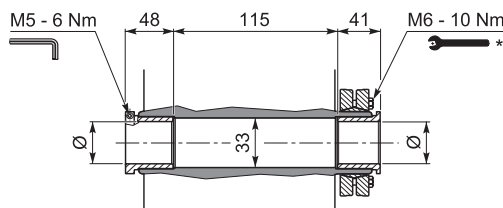


A 20...US

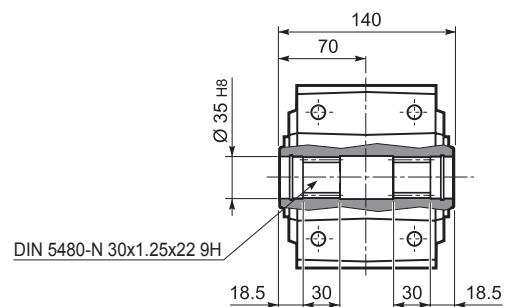


A 20...QF

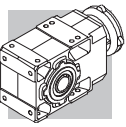
| | Ø |
|------|----|
| QF25 | 25 |
| QF30 | 30 |



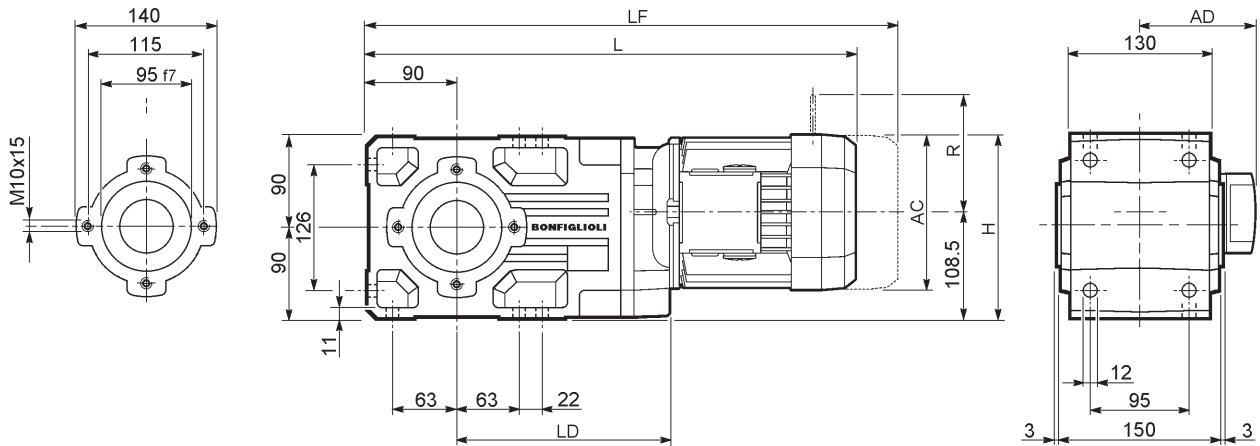
A 20...UV



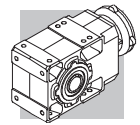
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



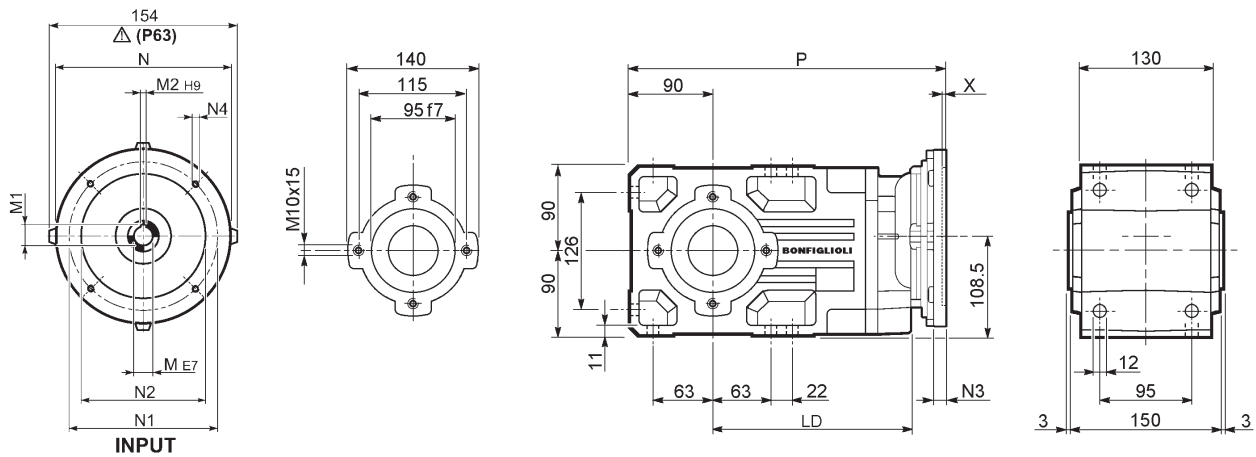
A 30...M



| Image | S | M | AC | H | L | LD | AD | Kg | M...FD M...FA | | M...FD | | M...FA | |
|-------|-----|-----|-----|-------|-------|-----|-----|----|------------------|----|--------|-----|--------|-----|
| | | | | | | | | | LF | Kg | R | AD | R | AD |
| | S1 | M1 | 138 | 177.5 | 488 | 201 | 108 | 22 | 549 | 24 | 103 | 135 | 124 | 108 |
| | S2 | M2S | 156 | 186.5 | 517 | 213 | 119 | 25 | 587 | 29 | 129 | 146 | 134 | 119 |
| | S3 | M3S | 195 | 206 | 560 | 223 | 142 | 30 | 656 | 38 | 160 | 158 | 160 | 142 |
| | S3 | M3L | 195 | 206 | 592 | 223 | 142 | 38 | 683 | 45 | 160 | 158 | 160 | 142 |
| | S05 | M05 | 121 | 169 | 516.5 | — | 95 | 21 | 582.5 | 22 | 96 | 122 | 116 | 95 |
| | S1 | M1 | 138 | 177.5 | 545.5 | — | 108 | 23 | 606.5 | 26 | 103 | 135 | 124 | 108 |
| | S2 | M2S | 156 | 186.5 | 574.5 | — | 119 | 25 | 644.5 | 29 | 129 | 146 | 134 | 119 |
| | S3 | M3S | 195 | 206 | 617.5 | — | 142 | 30 | 713.5 | 38 | 160 | 158 | 160 | 142 |
| | S3 | M3L | 195 | 206 | 649.5 | — | 142 | 38 | 740.5 | 45 | 160 | 158 | 160 | 142 |

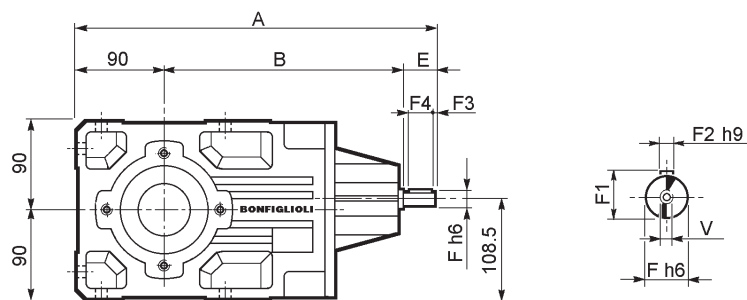


A 30...P(IEC)

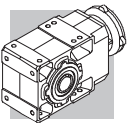


| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg | | |
|--|--|--------|------|-----|----|------|----|-----|-----|-----|---|--------|-----|-------|----|
| | | A 30 2 | P63 | 213 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 333 | 16 |
| | | A 30 2 | P71 | 213 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 333 | 16 |
| | | A 30 2 | P80 | 223 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 352.5 | 17 |
| | | A 30 2 | P90 | 223 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 352.5 | 17 |
| | | A 30 2 | P100 | 223 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 362.5 | 20 |
| | | A 30 2 | P112 | 223 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 362.5 | 20 |
| | | A 30 3 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 390.5 | 17 |
| | | A 30 3 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 390.5 | 17 |
| | | A 30 3 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 410 | 18 |
| | | A 30 3 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 410 | 18 |
| | | A 30 3 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 420 | 22 |
| | | A 30 3 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 420 | 22 |

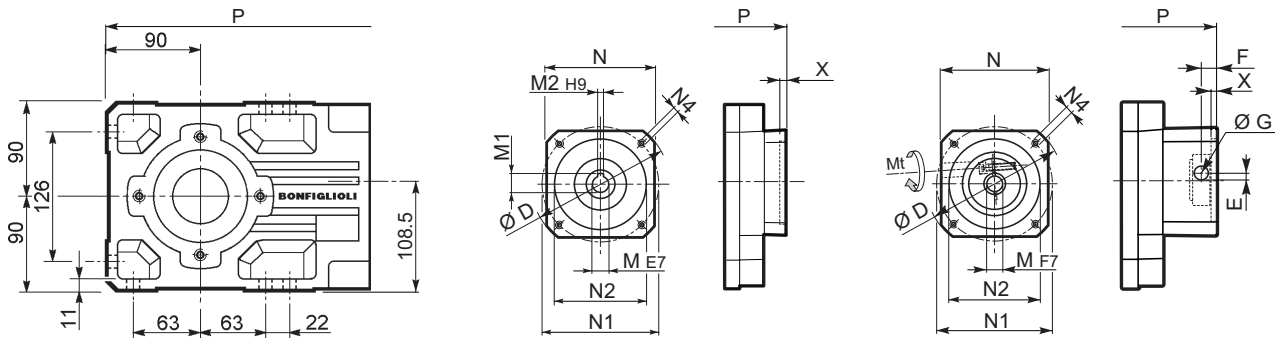
A 30...HS



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg | | |
|--|--|--------|----|-------|-------|----|----|------|----|-----|----|-------|------|
| | | A 30 2 | HS | 383 | 253 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 16.7 |
| | | A 30 3 | HS | 397.5 | 267.5 | 40 | 16 | 18 | 5 | 2.5 | 35 | M6x16 | 16.5 |



A 30...SK / SC



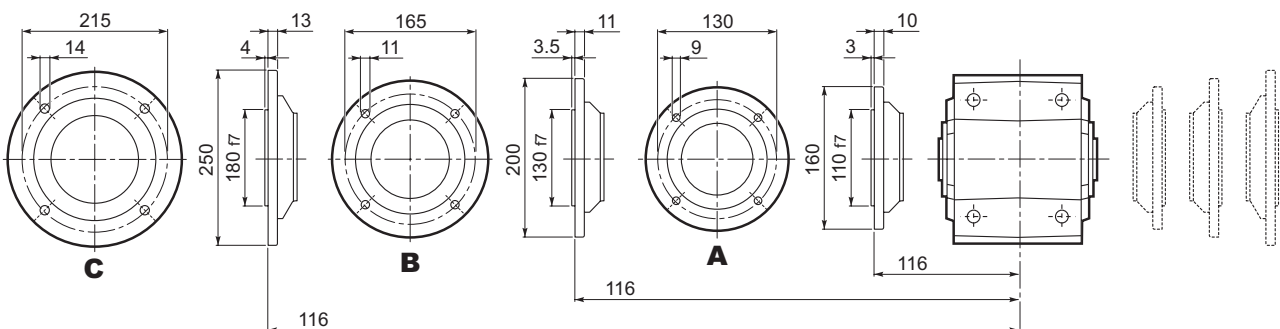
SK...

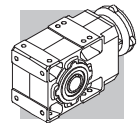
SC...

| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | kg |
|----------|--------|-----|----|------|----|-----|-----|-----|--------|-----|-------|-----|-------|
| | | | | | | | | | | | 2x | 3x | |
| A 30 2/3 | SK60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 304.5 | 362 | 15/16 |
| A 30 2/3 | SK60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 311.5 | 369 | 16/17 |
| A 30 2/3 | SK80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 311.5 | 369 | 16/17 |
| A 30 2/3 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 352.5 | 410 | 17/18 |
| A 30 2/3 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 352.5 | 410 | 17/18 |
| A 30 2/3 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 352.5 | 410 | 17/18 |
| A 30 2/3 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 352.5 | 410 | 17/18 |
| A 30 2/3 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 352.5 | 410 | 17/18 |
| A 30 2/3 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 352.5 | 410 | 17/18 |
| A 30 2 | SK130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 352.5 | — | 18 |

| | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | kg |
|----------|---------|----------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|-------|-------|
| | | | | | | | | | | | | | 2x | 3x | |
| A 30 2/3 | SC60A | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 331.5 | 389 | 16/17 |
| A 30 2/3 | SC60B | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 331.5 | 389 | 17/18 |
| A 30 2/3 | SC80A | M6 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 331.5 | 389 | 17/18 |
| A 30 2/3 | SC80C | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 376 | 433.5 | 18/19 |
| A 30 2/3 | SC95A | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 376 | 433.5 | 18/19 |
| A 30 2/3 | SC95B | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 376 | 433.5 | 18/19 |
| A 30 2/3 | SC95C | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 376 | 433.5 | 18/19 |
| A 30 2/3 | SC 110A | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 376 | 433.5 | 19/20 |
| A 30 2/3 | SC 110B | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 376 | 433.5 | 19/20 |
| A 30 2 | SC 130A | M6 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 376 | — | 20 |

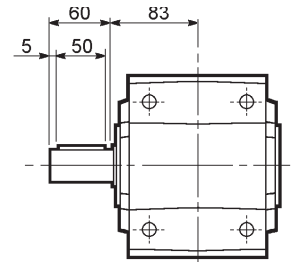
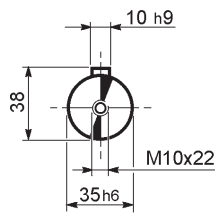
A 30...F...



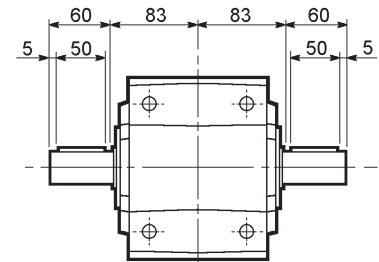
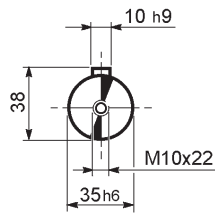


A 30

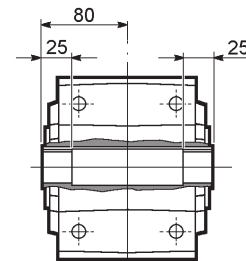
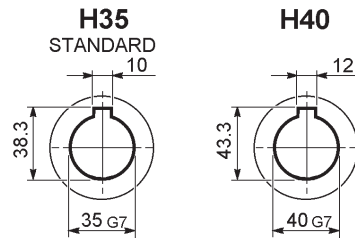
A 30...UR



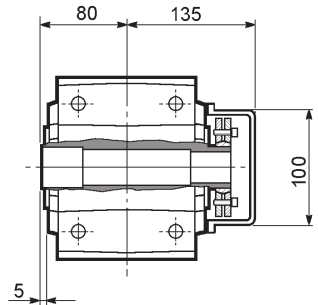
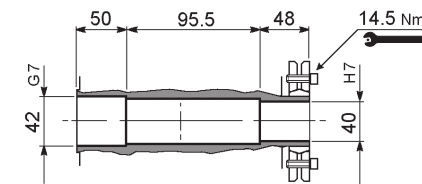
A 30...UD



A 30...UH

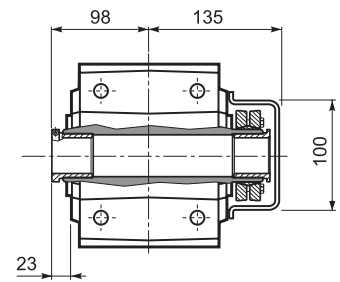
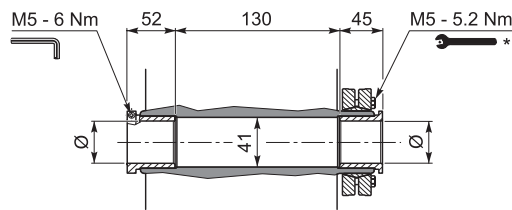


A 30...US

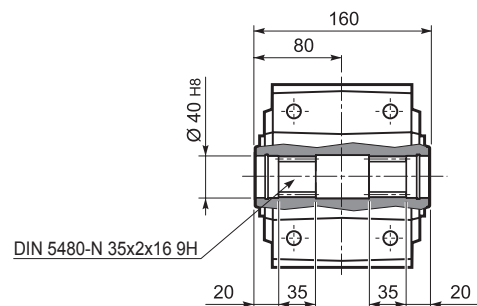


A 30...QF

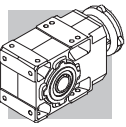
| | Ø |
|------|----|
| QF35 | 35 |
| QF40 | 40 |



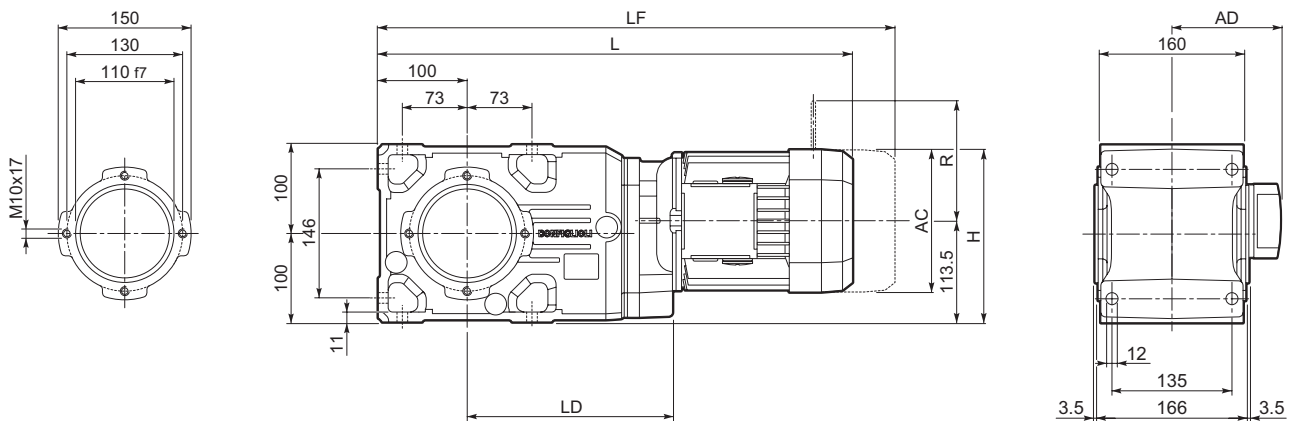
A 30...UV



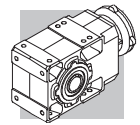
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



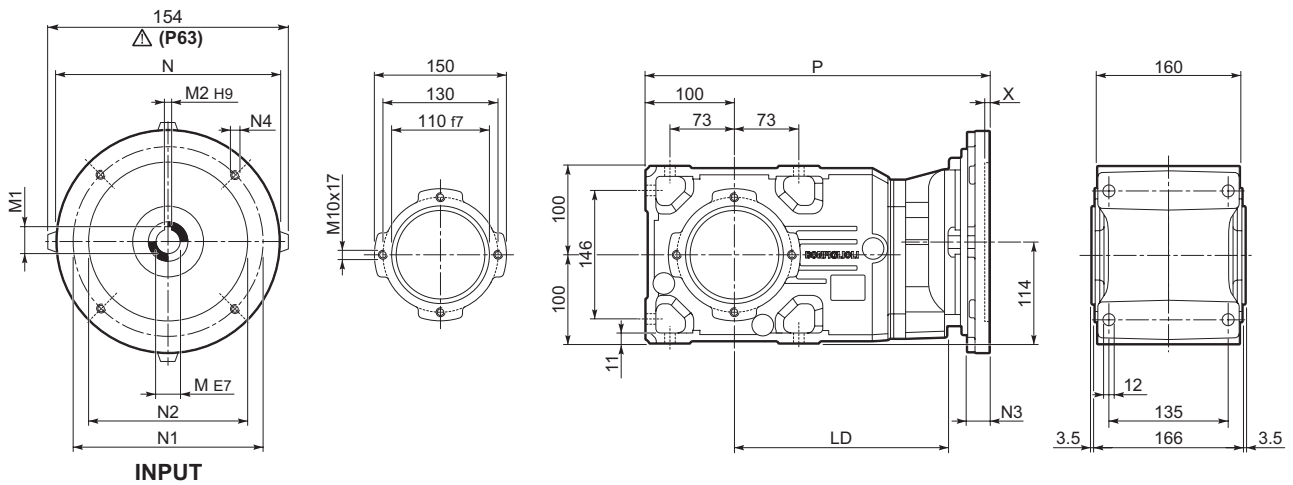
A 35...M



| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | | | |
|--|--|--|--------|-----|------|-----|-------|-------|-------|------------------|----|--------|-----|--------|-----|-----|-----|
| | | | AC | H | L | LD | AD | | LF | | R | AD | R | AD | | | |
| | | | A 35 2 | S1 | M1 | 138 | 182.5 | 514.5 | 217.5 | 108 | 34 | 575.5 | 36 | 103 | 135 | 124 | 108 |
| | | | A 35 2 | S2 | M2S | 156 | 191.5 | 543.5 | 229.5 | 119 | 37 | 613.5 | 41 | 129 | 146 | 134 | 119 |
| | | | A 35 2 | S3 | M3S | 195 | 211 | 586.5 | 239.5 | 142 | 42 | 682.5 | 50 | 160 | 158 | 160 | 142 |
| | | | A 35 2 | S3 | M3L | 195 | 211 | 618.5 | 239.5 | 142 | 50 | 709.5 | 57 | 160 | 158 | 160 | 142 |
| | | | A 35 2 | S4 | M4S | 258 | 242.5 | 726.5 | — | 193 | 89 | 835.5 | 107 | 226 | 210 | 217 | 193 |
| | | | A 35 2 | S4 | M4L | 258 | 242.5 | 761.5 | — | 193 | 97 | 860.5 | 115 | 226 | 210 | 217 | 193 |
| | | | A 35 3 | S05 | M05S | 121 | 174 | 543 | — | 95 | 33 | 609 | 34 | 96 | 122 | 116 | 95 |
| | | | A 35 3 | S1 | M1 | 138 | 182.5 | 572 | — | 108 | 35 | 633 | 38 | 103 | 135 | 124 | 108 |
| | | | A 35 3 | S2 | M2S | 156 | 191.5 | 601 | — | 119 | 37 | 671 | 41 | 129 | 146 | 134 | 119 |
| | | | A 35 3 | S3 | M3S | 195 | 211 | 644 | — | 142 | 42 | 740 | 50 | 160 | 158 | 160 | 142 |
| | | | A 35 3 | S3 | M3L | 195 | 211 | 676 | — | 142 | 50 | 767 | 57 | 160 | 158 | 160 | 142 |

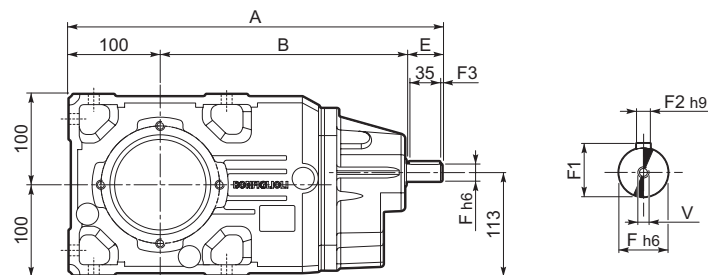


A 35...P(IEC)

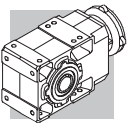


| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|--------|------|-------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| | | | | | | | | | | | | | |
| A 35 2 | P63 | 229.5 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 359.5 | 28 |
| A 35 2 | P71 | 229.5 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 359.5 | 28 |
| A 35 2 | P80 | 239.5 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 379 | 29 |
| A 35 2 | P90 | 239.5 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 379 | 29 |
| A 35 2 | P100 | 239.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 389 | 32 |
| A 35 2 | P112 | 239.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 389 | 32 |
| A 35 2 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 425.5 | 40 |
| A 35 3 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 417 | 29 |
| A 35 3 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 417 | 29 |
| A 35 3 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 436.5 | 30 |
| A 35 3 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 436.5 | 30 |
| A 35 3 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 446.5 | 34 |
| A 35 3 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 446.5 | 34 |

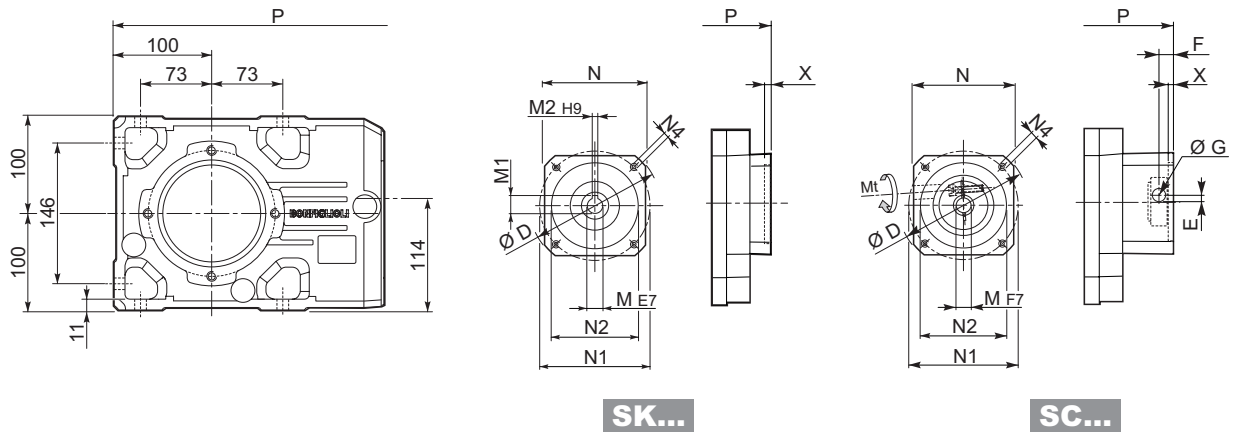
A 35...HS



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|-------|----|----|------|----|-----|----|-------|----|
| | | | | | | | | | | | |
| A 35 2 | HS | 409.5 | 269.5 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 29 |
| A 35 3 | | 424 | 284 | 40 | 16 | 18 | 5 | 2.5 | 35 | M6x16 | 29 |



A 35...SK / SC



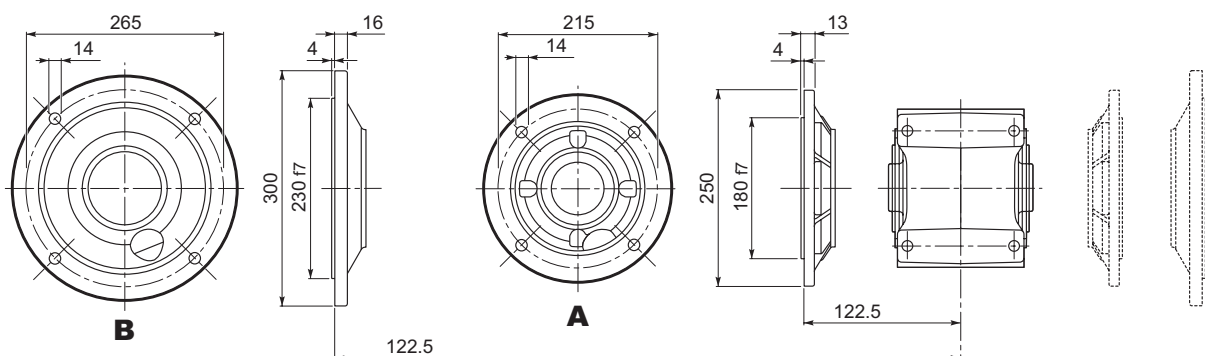
SK...

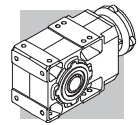
SC...

| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|----------|--------|-----|----|------|----|-----|-----|-----|--------|-----|-----|-------|-------|
| | | | | | | | | | | | 2x | 3x | |
| A 35 2/3 | SK60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 331 | 388.5 | 27/28 |
| A 35 2/3 | SK60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 338 | 395.5 | 28/29 |
| A 35 2/3 | SK80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 338 | 395.5 | 28/29 |
| A 35 2/3 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 379 | 436.5 | 29/30 |
| A 35 2/3 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 379 | 436.5 | 29/30 |
| A 35 2/3 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 379 | 436.5 | 29/30 |
| A 35 2/3 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 379 | 436.5 | 29/30 |
| A 35 2/3 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 379 | 436.5 | 29/30 |
| A 35 2/3 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 379 | 436.5 | 29/30 |
| A 35 2 | SK130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 379 | — | 30 |

| | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|----------|--------|----------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|-------|-------|
| | | | | | | | | | | | | | 2x | 3x | |
| A 35 2/3 | SC60A | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 358 | 415.5 | 28/29 |
| A 35 2/3 | SC60B | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 358 | 415.5 | 29/30 |
| A 35 2/3 | SC80A | M6 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 358 | 415.5 | 29/30 |
| A 35 2/3 | SC80C | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 402.5 | 460 | 30/31 |
| A 35 2/3 | SC95A | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 402.5 | 460 | 30/31 |
| A 35 2/3 | SC95B | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 402.5 | 460 | 30/31 |
| A 35 2/3 | SC95C | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 402.5 | 460 | 30/31 |
| A 35 2/3 | SC110A | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 402.5 | 460 | 32/33 |
| A 35 2/3 | SC110B | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 402.5 | 460 | 32/33 |
| A 35 2 | SC130A | M6 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 402.5 | — | 33 |

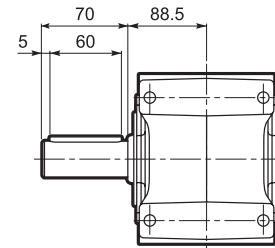
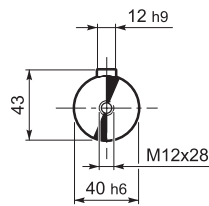
A 35...F...



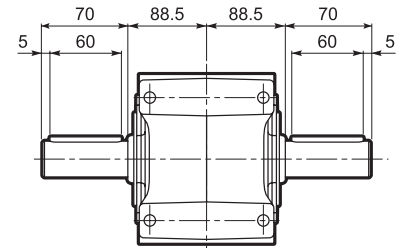
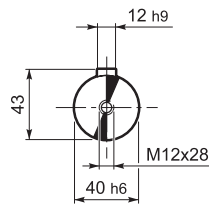


A 35

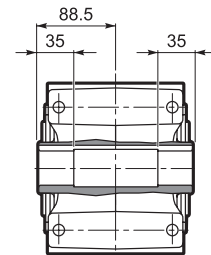
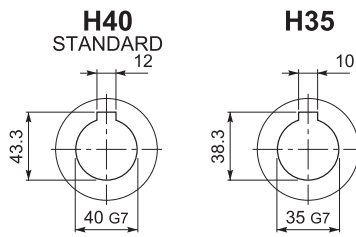
A 35...UR



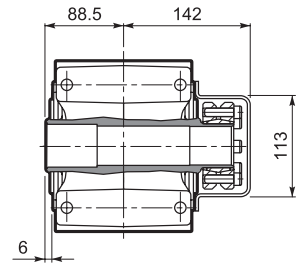
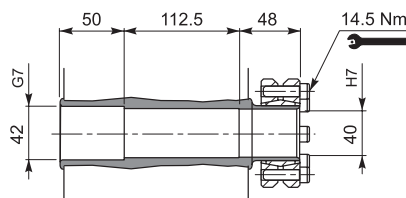
A 35...UD



A 35...UH

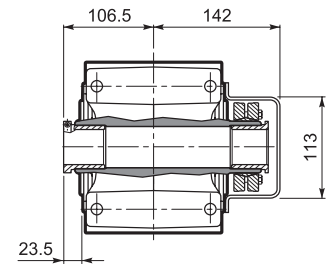
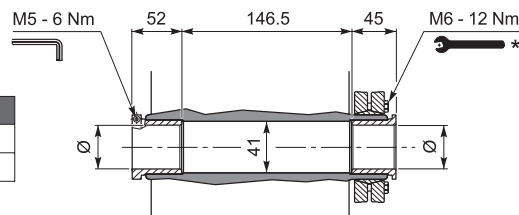


A 35...US

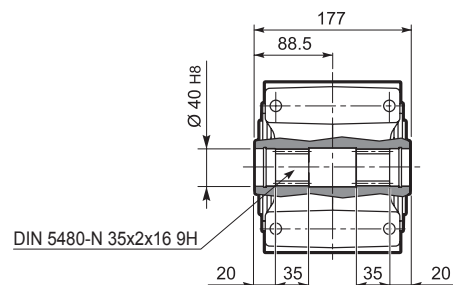


A 35...QF

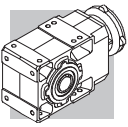
| | Ø |
|------|----|
| QF35 | 35 |
| QF40 | 40 |



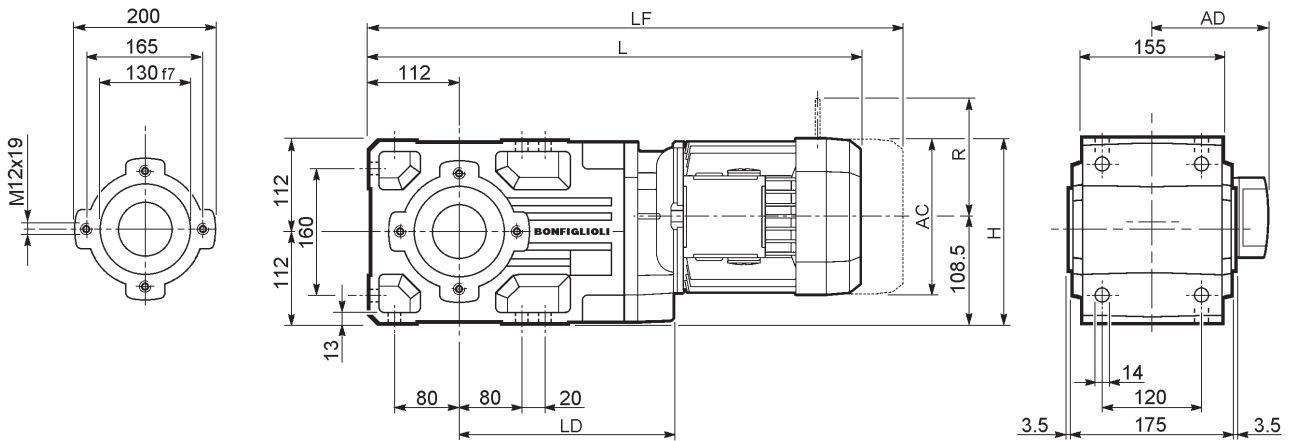
A 35...UV



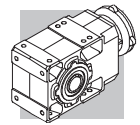
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



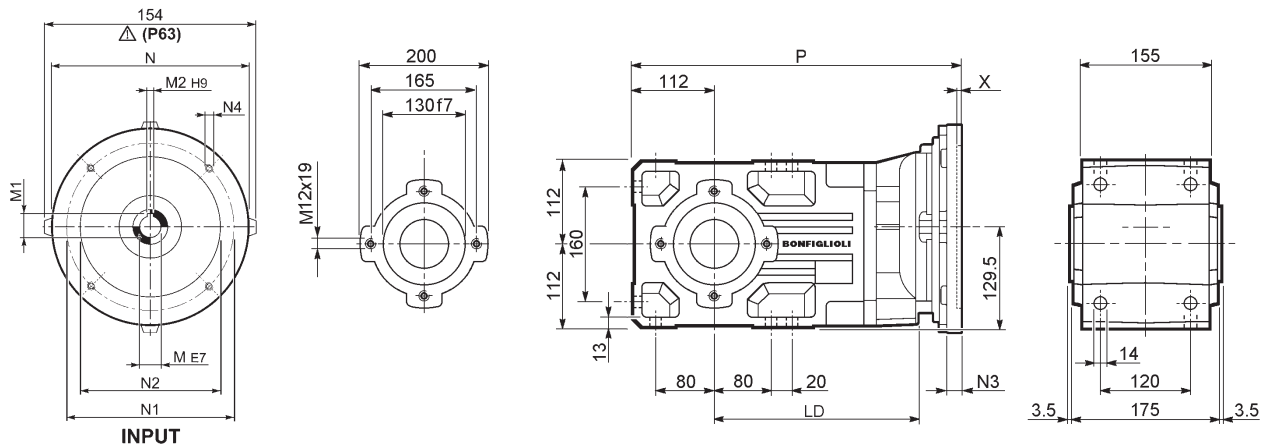
A 41...M



| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|---------------|------------|-------------|-----|-------|-------|-------|-----|-----|-------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | LD | AD | | LF | | R | AD | R | AD | |
| A 41 2 | S1 | M1 | 138 | 198.5 | 530 | 216.5 | 108 | 41 | 591 | 44 | 103 | 135 | 124 | 108 | |
| A 41 2 | S2 | M2S | 156 | 207.5 | 559 | 232 | 119 | 45 | 629 | 49 | 129 | 146 | 134 | 119 | |
| A 41 2 | S3 | M3S | 195 | 227 | 602 | 248 | 142 | 50 | 698 | 58 | 160 | 158 | 160 | 142 | |
| A 41 2 | S3 | M3L | 195 | 227 | 634 | 248 | 142 | 58 | 725 | 65 | 160 | 158 | 160 | 142 | |
| A 41 2 | S4 | M4 | 258 | 258.5 | 742 | — | 193 | 92 | 851 | 110 | 226 | 210 | 217 | 193 | |
| A 41 2 | S4 | M4LC | 258 | 258.5 | 777 | — | 193 | 100 | 876 | 118 | 226 | 210 | 217 | 193 | |
| A 41 3 | S05 | M05 | 121 | 245 | 562.5 | — | 95 | 44 | 628.5 | 46 | 96 | 122 | 116 | 95 | |
| A 41 3 | S1 | M1 | 138 | 198.5 | 591.5 | — | 108 | 46 | 652.5 | 49 | 103 | 135 | 124 | 108 | |
| A 41 3 | S2 | M2S | 156 | 207.5 | 620.5 | — | 119 | 50 | 690.5 | 58 | 129 | 146 | 134 | 119 | |
| A 41 3 | S3 | M3S | 195 | 227 | 663.5 | — | 142 | 55 | 759.5 | 62 | 160 | 158 | 160 | 142 | |
| A 41 3 | S3 | M3L | 195 | 227 | 695.5 | — | 142 | 61 | 786.5 | 68 | 160 | 158 | 160 | 142 | |

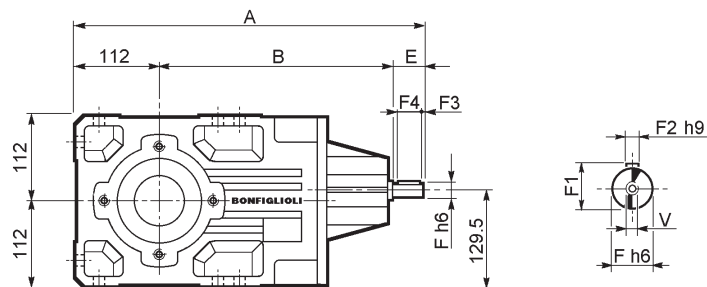


A 41...P(IEC)

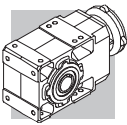


| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|--------|------|-----|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| | | | | | | | | | | | | | |
| A 41 2 | P63 | 232 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 375 | 37 |
| A 41 2 | P71 | 232 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 375 | 38 |
| A 41 2 | P80 | 248 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 394.5 | 39 |
| A 41 2 | P90 | 248 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 394.5 | 39 |
| A 41 2 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 404.5 | 43 |
| A 41 2 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 404.5 | 43 |
| A 41 2 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 441 | 46 |
| A 41 3 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 436.5 | 39 |
| A 41 3 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 436.5 | 39 |
| A 41 3 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 456 | 40 |
| A 41 3 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 456 | 40 |
| A 41 3 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 466 | 44 |
| A 41 3 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 466 | 44 |

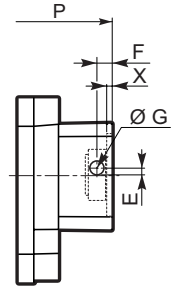
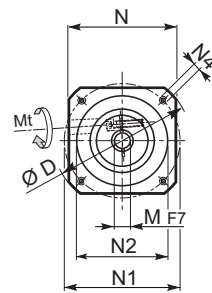
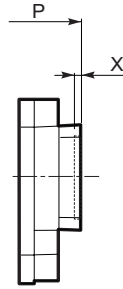
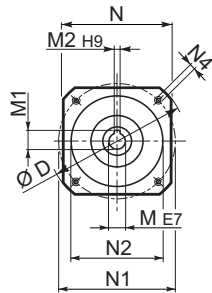
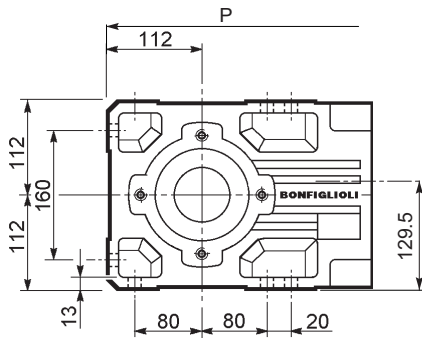
A 41...HS



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|-------|----|----|------|----|-----|----|-------|------|
| | | | | | | | | | | | |
| A 41 2 | HS | 464 | 302.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 40.7 |
| A 41 3 | HS | 486.5 | 334.5 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 39.5 |



A 41...SK / SC



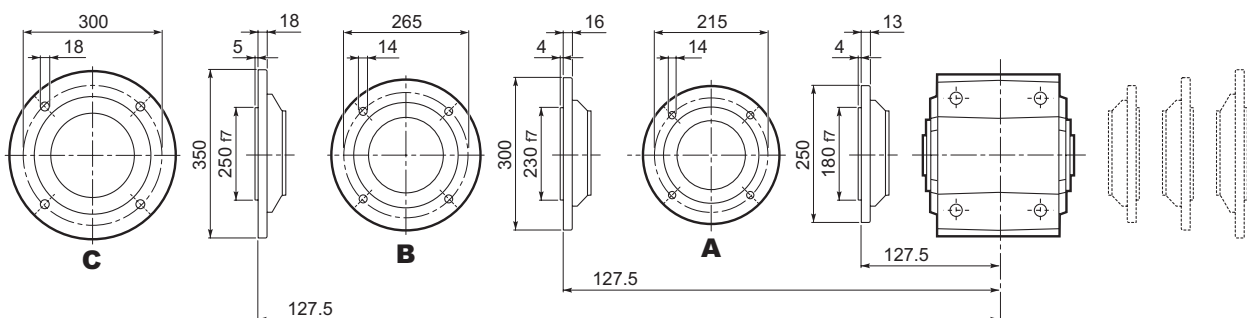
SK...

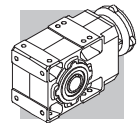
SC...

| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|---------|--------|-----|----|------|----|-----|-----|-----|--------|-----|-------|-----|-------|
| | | | | | | | | | | | 2x | 3x | |
| A41 3 | SK60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | — | 408 | 40 |
| A41 3 | SK60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | — | 415 | 40 |
| A41 3 | SK80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | — | 415 | 40 |
| A41 2 | SK80B | 120 | 14 | 16.3 | 5 | 96 | 100 | 80 | M6x12 | 4 | 394.5 | — | 39 |
| A41 2/3 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 394.5 | 456 | 39/40 |
| A41 2/3 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 394.5 | 456 | 39/40 |
| A41 2/3 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 394.5 | 456 | 39/41 |
| A41 2/3 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 394.5 | 456 | 39/44 |
| A41 2/3 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 394.5 | 456 | 39/44 |
| A41 2/3 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 394.5 | 456 | 39/44 |
| A41 2 | SK130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 394.5 | — | 41 |
| A41 2 | SK130B | 189 | 32 | 35.3 | 10 | 160 | 165 | 130 | M10x20 | 5 | 441 | — | 43 |
| A41 2 | SK180A | 240 | 32 | 35.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 441 | — | 43 |
| A41 2 | SK180B | 240 | 38 | 41.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 441 | — | 43 |

| | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|---------|--------|----------|-----|------|------|-------|----|-----|-----|-----|--------|---|-----|-------|-------|
| | | | | | | | | | | | | | 2x | 3x | |
| A41 3 | SC60A | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | — | 435 | 41 |
| A41 3 | SC60B | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | — | 435 | 41 |
| A41 3 | SC80A | M6 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | — | 435 | 41 |
| A41 2 | SC80B | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 14 | 96 | 100 | 80 | M6x12 | 4 | 418 | — | 40 |
| A41 2/3 | SC80C | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 418 | 479.5 | 40/41 |
| A41 2/3 | SC95A | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 418 | 479.5 | 40/42 |
| A41 2/3 | SC95B | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 418 | 479.5 | 40/42 |
| A41 2/3 | SC95C | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 418 | 479.5 | 40/43 |
| A41 2/3 | SC110A | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 418 | 479.5 | 41/47 |
| A41 2/3 | SC110B | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 418 | 479.5 | 41/47 |
| A41 2 | SC130A | M6 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 418 | — | 42 |
| A41 2 | SC130B | M8 36 Nm | 189 | 20 | 17 | 17.75 | 32 | 160 | 165 | 130 | M10x20 | 5 | 464 | — | 46 |
| A41 2 | SC180A | M8 36 Nm | 240 | 20 | 17.5 | 17.75 | 32 | 192 | 215 | 180 | M12x24 | 5 | 468 | — | 46 |
| A41 2 | SC180B | M8 36 Nm | 240 | 20 | 17.5 | 17.75 | 38 | 192 | 215 | 180 | M12x24 | 5 | 468 | — | 46 |

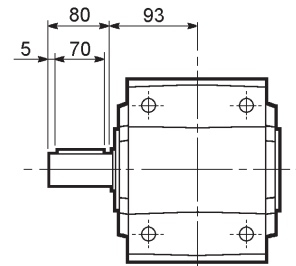
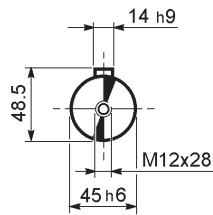
A 41...F...



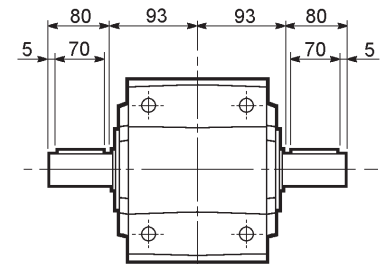
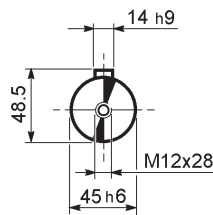


A 41

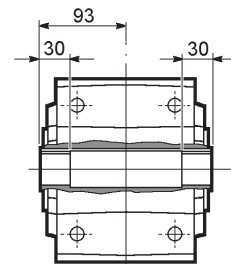
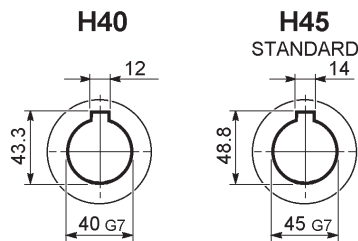
A 41...UR



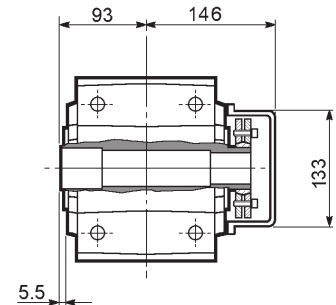
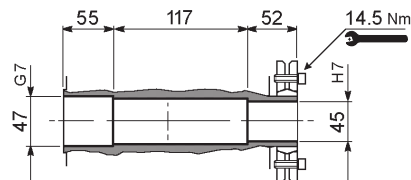
A 41...UD



A 41...UH

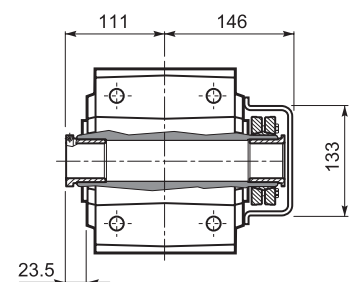
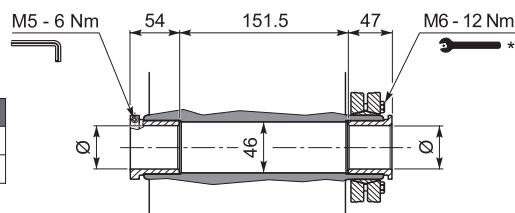


A 41...US

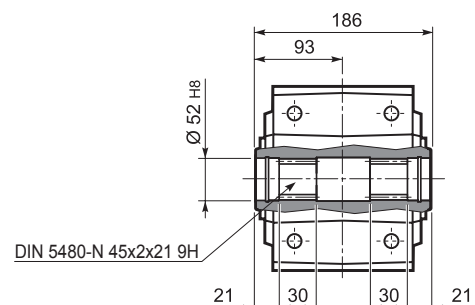


A 41...QF

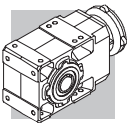
| | Ø |
|------|----|
| QF40 | 40 |
| QF45 | 45 |



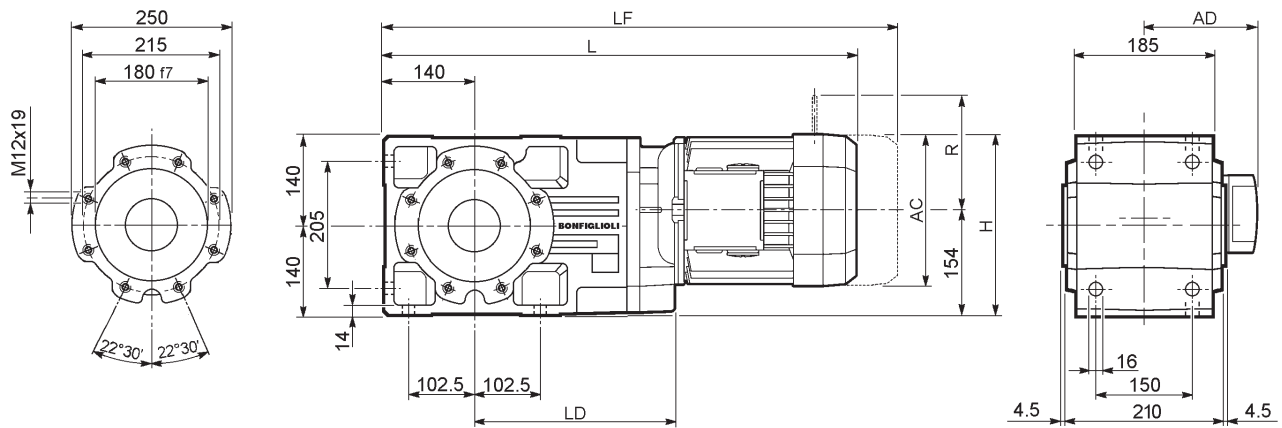
A 41...UV



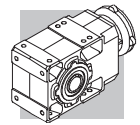
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



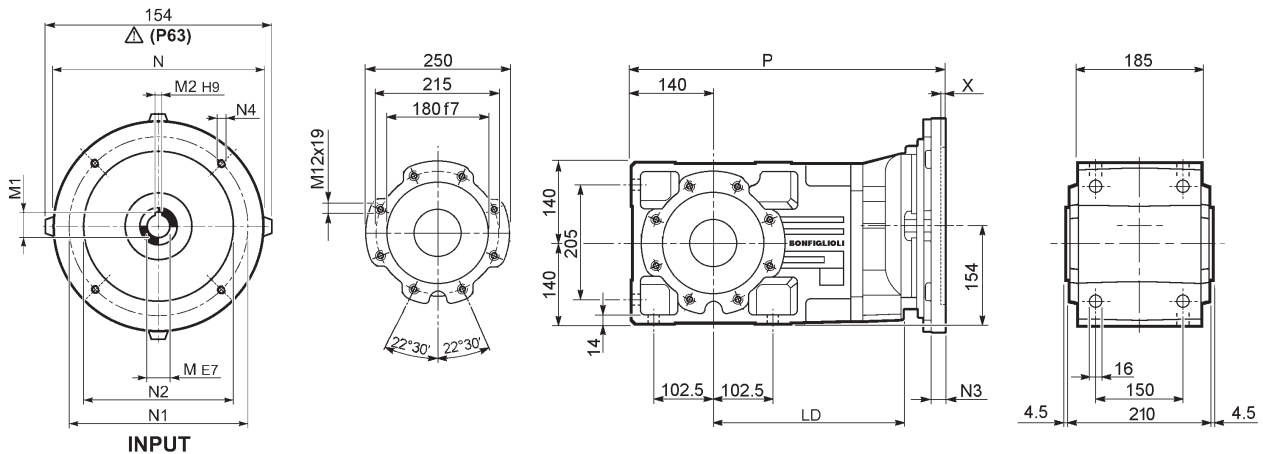
A 50...M



| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | | | |
|--|--|--|----------|----|------|-----|-------|-------|-------|------------------|-----|--------|-----|--------|-----|-----|-----|
| | | | AC | H | L | LD | AD | | LF | | R | AD | R | AD | | | |
| | | | A 50 2/3 | S1 | M1 | 138 | 223 | 609.5 | — | 108 | 66 | 670.5 | 69 | 103 | 135 | 124 | 108 |
| | | | A 50 2/3 | S2 | M2S | 156 | 232 | 638.5 | 284.5 | 119 | 68 | 708.5 | 72 | 129 | 146 | 134 | 119 |
| | | | A 50 2/3 | S3 | M3S | 195 | 251.5 | 681.5 | 299.5 | 142 | 73 | 777.5 | 81 | 160 | 158 | 160 | 142 |
| | | | A 50 2/3 | S3 | M3L | 195 | 251.5 | 713.5 | 299.5 | 142 | 81 | 804.5 | 88 | 160 | 158 | 160 | 142 |
| | | | A 50 2/3 | S4 | M4 | 258 | 283 | 821.5 | 284.5 | 193 | 115 | 930.5 | 133 | 226 | 210 | 217 | 193 |
| | | | A 50 2/3 | S4 | M4LC | 258 | 283 | 856.5 | 284.5 | 193 | 123 | 955.5 | 141 | 226 | 210 | 217 | 193 |
| | | | A 50 2/3 | S5 | M5S | 310 | 309 | 908 | — | 245 | 143 | 1048 | 173 | 266 | 245 | 247 | 245 |
| | | | A 50 2/3 | S5 | M5L | 310 | 309 | 952 | — | 245 | 159 | 1092 | 189 | 266 | 245 | 247 | 245 |
| | | | A 50 4 | S1 | M1 | 138 | 223 | 681 | — | 108 | 67 | 742 | 70 | 103 | 135 | 124 | 108 |
| | | | A 50 4 | S2 | M2S | 156 | 232 | 710 | — | 119 | 71 | 780 | 75 | 129 | 146 | 134 | 119 |
| | | | A 50 4 | S3 | M3S | 195 | 251.5 | 753 | — | 142 | 76 | 849 | 76 | 160 | 158 | 160 | 142 |
| | | | A 50 4 | S3 | M3L | 195 | 251.5 | 785 | — | 142 | 83 | 876 | 78 | 160 | 158 | 160 | 142 |

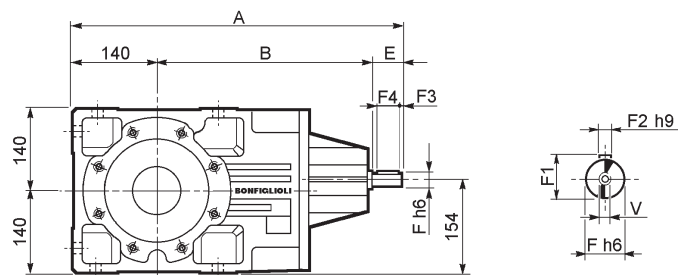


A 50...P(IEC)

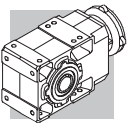


| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|----------|------|-------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| | | | | | | | | | | | | | |
| A 50 2/3 | P63 | 284.5 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 454.5 | 60 |
| A 50 2/3 | P71 | 284.5 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 454.5 | 60 |
| A 50 2/3 | P80 | 299.5 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 474 | 61 |
| A 50 2/3 | P90 | 299.5 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 474 | 61 |
| A 50 2/3 | P100 | 284.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 484 | 65 |
| A 50 2/3 | P112 | 284.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 484 | 65 |
| A 50 2/3 | P132 | 284.5 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 520.5 | 68 |
| A 50 2/3 | P160 | — | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 571 | 72 |
| A 50 2/3 | P180 | — | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 571 | 72 |
| A 50 4 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 526 | 62 |
| A 50 4 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 526 | 62 |
| A 50 4 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 545.5 | 63 |
| A 50 4 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 545.5 | 63 |
| A 50 4 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 555.5 | 67 |
| A 50 4 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 555.5 | 67 |

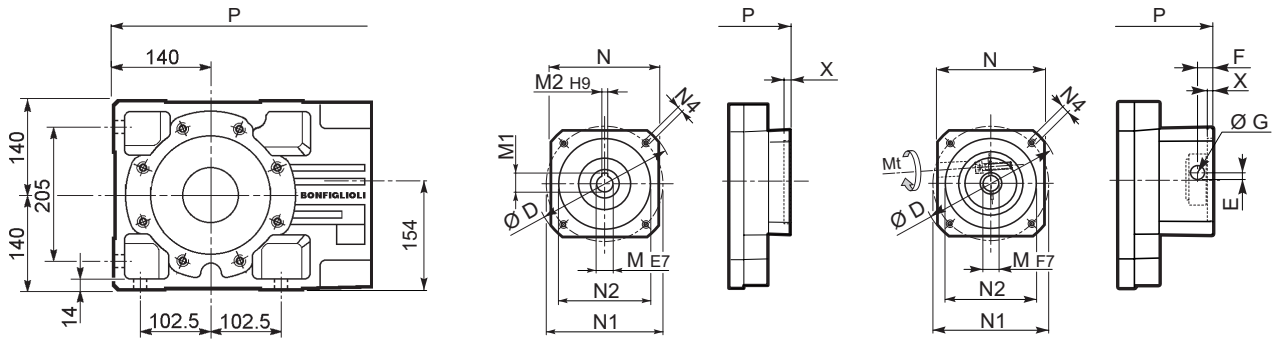
A 50...HS



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|-------|----|----|------|----|-----|----|-------|----|
| | | | | | | | | | | | |
| A 50 2 | HS | 543.5 | 353.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 72 |
| A 50 3 | | 543.5 | 353.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 76 |
| A 50 4 | | 576 | 396 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 77 |



A 50...SK / SC



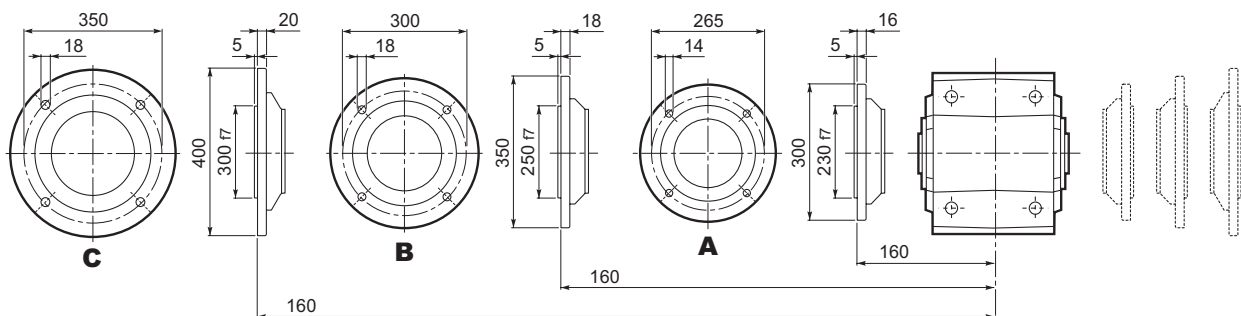
SK...

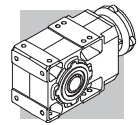
SC...

| Image | Image | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg | | |
|-------|-------|------------|--------|-----|----|------|----|-----|-----|-----|--------|----|-------|-------|----------|
| | | | | | | | | | | | 2/3x | 4x | | | |
| | | A 50 2/3 | SK80B | 120 | 14 | 16.3 | 5 | 96 | 100 | 80 | M6x12 | 4 | 474 | — | 61/61 |
| | | A 50 2/3/4 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 474 | 545.5 | 61/61/63 |
| | | A 50 2/3/4 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 474 | 545.5 | 61/61/63 |
| | | A 50 2/3/4 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 474 | 545.5 | 61/61/63 |
| | | A 50 2/3/4 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 474 | 545.5 | 61/61/63 |
| | | A 50 2/3/4 | SK110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 474 | 545.5 | 61/61/65 |
| | | A 50 2/3/4 | SK110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 474 | 575 | 61/61/65 |
| | | A 50 2/3/4 | SK130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 474 | 575 | 63/63/66 |
| | | A 50 2/3 | SK130B | 189 | 32 | 35.3 | 10 | 160 | 165 | 130 | M10x20 | 5 | 520.5 | — | 69/69 |
| | | A 50 2/3 | SK180A | 240 | 32 | 35.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 520.5 | — | 69/69 |
| | | A 50 2/3 | SK180B | 240 | 38 | 41.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 520.5 | — | 69/69 |

| Image | Image | Image | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|-------|-------|-------|----------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|-----|----------|
| | | | | | | | | | | | | | | 2/3x | 3x | |
| | | | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 14 | 96 | 100 | 80 | M6x12 | 4 | 497.5 | — | 62/62 |
| | | | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 497.5 | 569 | 62/62/64 |
| | | | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 497.5 | 569 | 62/62/64 |
| | | | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 497.5 | 569 | 62/62/64 |
| | | | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 497.5 | 569 | 62/62/64 |
| | | | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 497.5 | 569 | 63/63/66 |
| | | | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 497.5 | 569 | 63/63/66 |
| | | | M6 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 497.5 | 569 | 64/64/67 |
| | | | M8 36 Nm | 189 | 20 | 17 | 17.75 | 32 | 160 | 165 | 130 | M10x20 | 5 | 543.5 | — | 68/68 |
| | | | M8 36 Nm | 240 | 20 | 17.5 | 17.75 | 32 | 192 | 215 | 180 | M12x24 | 5 | 547.5 | — | 68/68 |
| | | | M8 36 Nm | 240 | 20 | 17.5 | 17.75 | 38 | 192 | 215 | 180 | M12x24 | 5 | 547.5 | — | 68/68 |

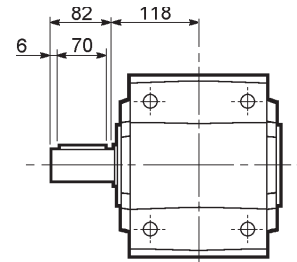
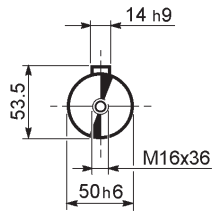
A 50...F...



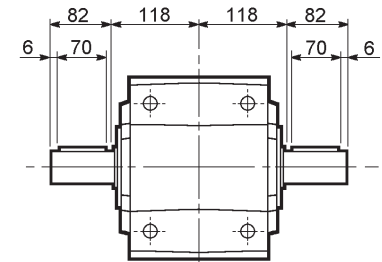
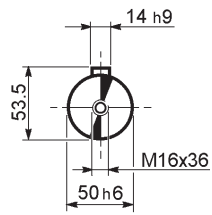


A 50

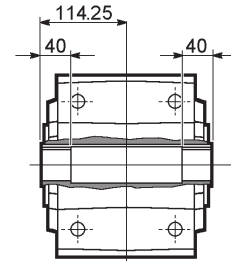
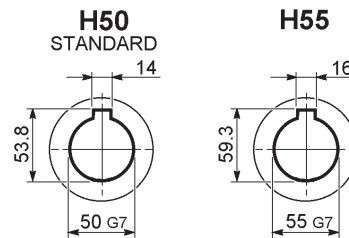
A 50...UR



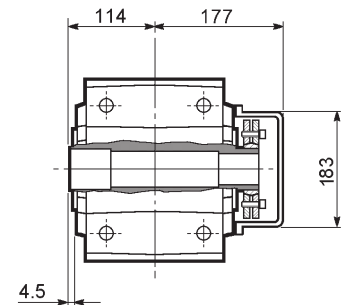
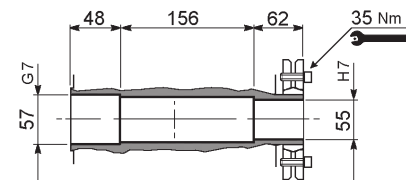
A 50...UD



A 50...UH

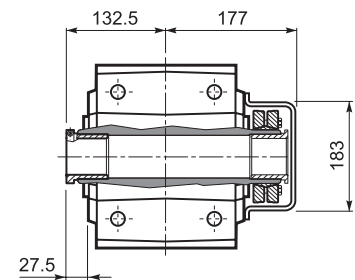
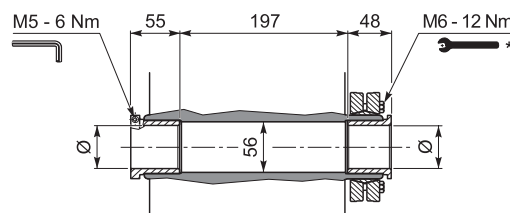


A 50...US

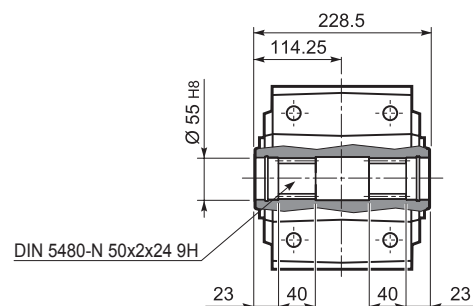


A 50...QF

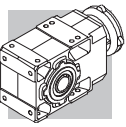
| | Ø |
|------|----|
| QF50 | 50 |
| QF55 | 55 |



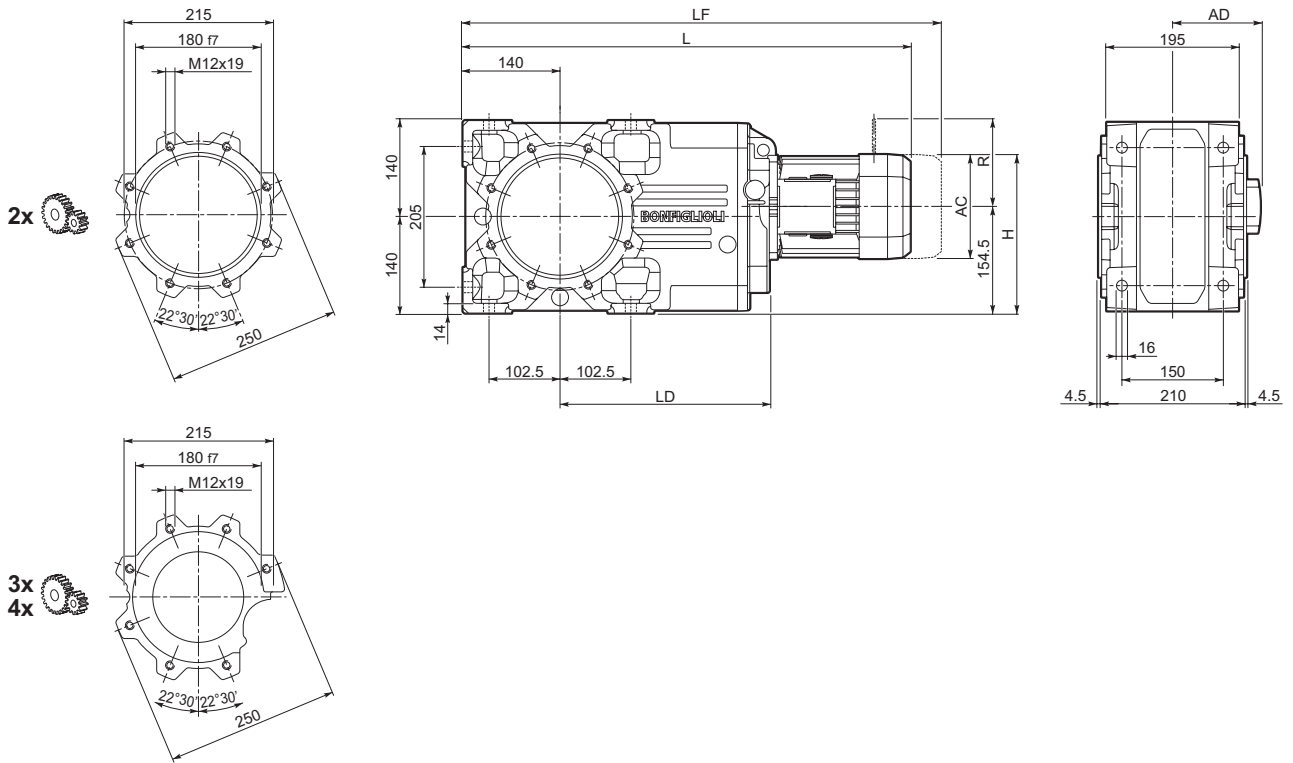
A 50...UV



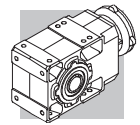
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



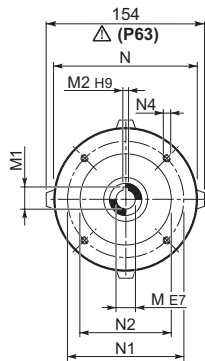
A 55...M



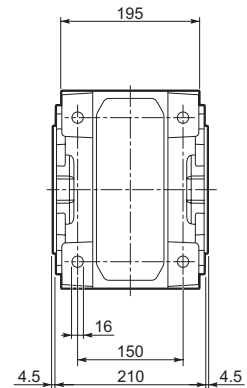
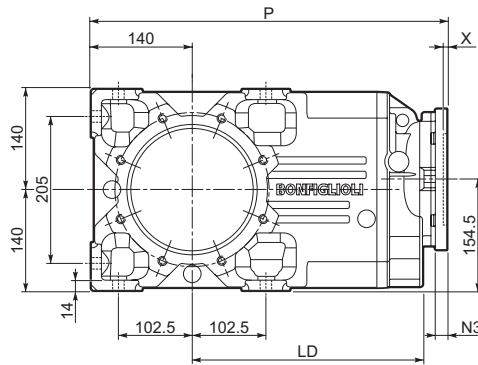
| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | | | |
|--|--|--|----------|----|------|-----|-------|-------|-------|------------------|-----|--------|-----|--------|-----|-----|-----|
| | | | AC | H | L | LD | AD | Kg | LF | Kg | R | AD | R | AD | | | |
| | | | A 55 3 | S1 | M1 | 138 | 198.5 | 627.5 | — | 108 | 81 | 688.5 | 84 | 103 | 135 | 124 | 108 |
| | | | A 55 2/3 | S2 | M2S | 156 | 232 | 656.5 | 302.5 | 119 | 88 | 726.5 | 92 | 129 | 146 | 134 | 119 |
| | | | A 55 2/3 | S3 | M3S | 195 | 251 | 699.5 | 317.5 | 142 | 93 | 795.5 | 99 | 160 | 158 | 160 | 142 |
| | | | A 55 2/3 | S3 | M3L | 195 | 251 | 731.5 | 317.5 | 142 | 101 | 822.5 | 108 | 160 | 158 | 160 | 142 |
| | | | A 55 2/3 | S4 | M4 | 258 | 283 | 839.5 | 302.5 | 193 | 135 | 948.5 | 153 | 226 | 210 | 217 | 193 |
| | | | A 55 2/3 | S4 | M4LC | 258 | 283 | 874.5 | 302.5 | 193 | 143 | 973.5 | 161 | 226 | 210 | 217 | 193 |
| | | | A 55 2/3 | S5 | M5S | 310 | 309.5 | 926 | — | 245 | 163 | 1066 | 193 | 266 | 245 | 247 | 245 |
| | | | A 55 2/3 | S5 | M5L | 310 | 309.5 | 970 | — | 245 | 179 | 1110 | 209 | 266 | 245 | 247 | 245 |
| | | | A 55 4 | S1 | M1 | 138 | 223 | 699 | — | 108 | 82 | 760 | 85 | 103 | 135 | 124 | 108 |
| | | | A 55 4 | S2 | M2S | 156 | 232 | 728 | — | 119 | 86 | 798 | 90 | 129 | 146 | 134 | 119 |
| | | | A 55 4 | S3 | M3S | 195 | 251.5 | 771 | — | 142 | 91 | 867 | 98 | 160 | 158 | 160 | 142 |
| | | | A 55 4 | S3 | M3L | 195 | 251.5 | 803 | — | 142 | 98 | 894 | 105 | 160 | 158 | 160 | 142 |



A 55...P(IEC)

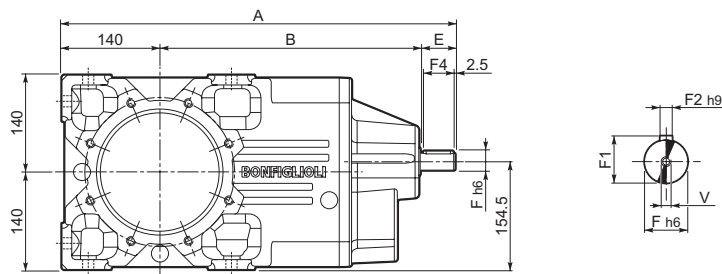


INPUT

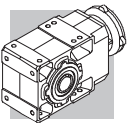


| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|-----------------|-------------|-------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| | | | | | | | | | | | | | |
| A 55 3 | P63 | 302.5 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 472.5 | 75 |
| A 55 3 | P71 | 302.5 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 472.5 | 75 |
| A 55 2/3 | P80 | 317.5 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 492 | 81 |
| A 55 2/3 | P90 | 317.5 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 492 | 81 |
| A 55 2/3 | P100 | 302.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 502 | 85 |
| A 55 2/3 | P112 | 302.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 502 | 85 |
| A 55 2/3 | P132 | 302.5 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 538.5 | 93 |
| A 55 2/3 | P160 | — | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 589 | 110 |
| A 55 2/3 | P180 | — | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 589 | 110 |
| A 55 4 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 544 | 77 |
| A 55 4 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 544 | 77 |
| A 55 4 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 563.5 | 78 |
| A 55 4 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 563.5 | 78 |
| A 55 4 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 573.5 | 82 |
| A 55 4 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 573.5 | 82 |

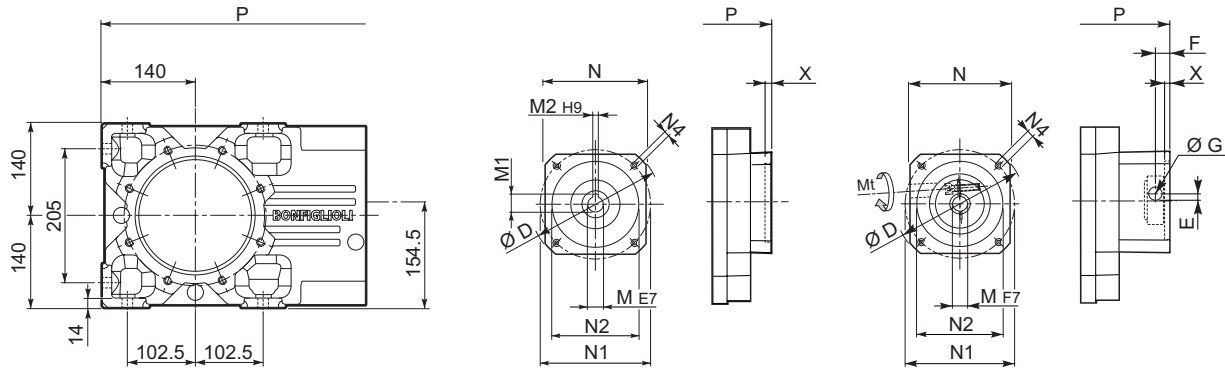
A 55...HS



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg |
|---------------|-----------|-------|-------|----|----|------|----|-----|----|-------|----|
| | | | | | | | | | | | |
| A 55 2 | HS | 561.5 | 371.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 96 |
| A 55 3 | | 561.5 | 371.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 91 |
| A 55 4 | | 594 | 414 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 92 |



A 55...SK / SC



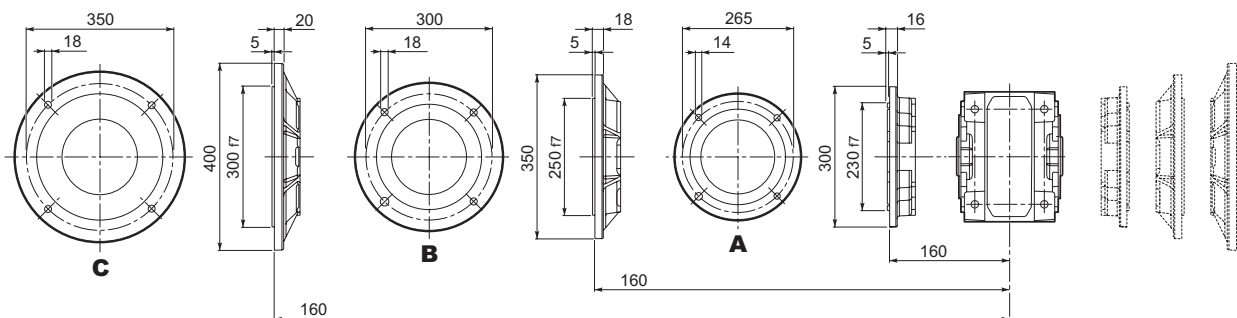
SK...

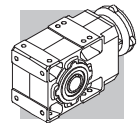
SC...

| Image | Image | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|-------|-------|-----|----|------|----|-----|-----|-----|--------|---|-------|-------|----------|
| | | | | | | | | | | | 2/3x | 4x | |
| | | 120 | 14 | 16.3 | 5 | 96 | 100 | 80 | M6x12 | 4 | 492 | — | 81 |
| | | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 492 | 563.5 | 81/81/77 |
| | | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 492 | 563.5 | 81/81/77 |
| | | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 492 | 563.5 | 81/81/77 |
| | | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 492 | 563.5 | 81/81/77 |
| | | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 492 | 593 | 81/81/78 |
| | | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 492 | 593 | 81/81/78 |
| | | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 492 | 593 | 83/83/79 |
| | | 189 | 32 | 35.3 | 10 | 160 | 165 | 130 | M10x20 | 5 | 538.5 | — | 90/90 |
| | | 240 | 32 | 35.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 538.5 | — | 90/90 |
| | | 240 | 38 | 41.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 538.5 | — | 90/90 |

| Image | Image | Image | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|-------|-------|-------|----------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|-----|----------|
| | | | | | | | | | | | | | | 2/3x | 3x | |
| | | | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 14 | 96 | 100 | 80 | M6x12 | 4 | 515.5 | — | 82 |
| | | | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 515.5 | 587 | 82/82/78 |
| | | | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 515.5 | 587 | 82/82/78 |
| | | | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 515.5 | 587 | 82/82/78 |
| | | | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 515.5 | 587 | 82/82/78 |
| | | | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 515.5 | 587 | 83/83/79 |
| | | | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 515.5 | 587 | 83/83/79 |
| | | | M6 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 515.5 | 587 | 84/84/80 |
| | | | M8 36 Nm | 189 | 20 | 17 | 17.75 | 32 | 160 | 165 | 130 | M10x20 | 5 | 561.5 | — | 93/93 |
| | | | M8 36 Nm | 240 | 20 | 17.5 | 17.75 | 32 | 192 | 215 | 180 | M12x24 | 5 | 565.5 | — | 93/93 |
| | | | M8 36 Nm | 240 | 20 | 17.5 | 17.75 | 38 | 192 | 215 | 180 | M12x24 | 5 | 565.5 | — | 93/93 |

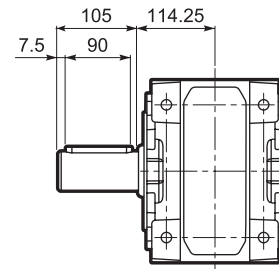
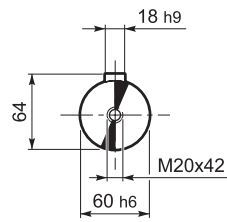
A 55...F...



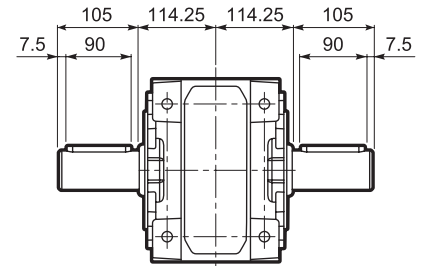
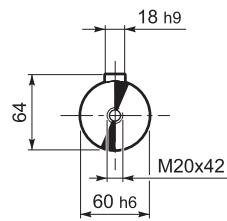


A 55

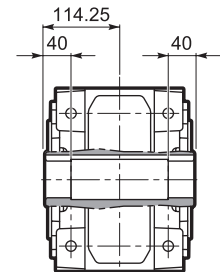
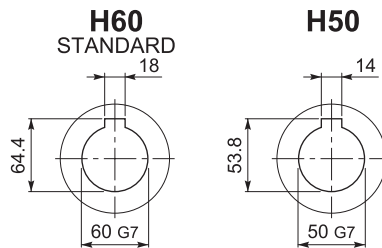
A 55...UR



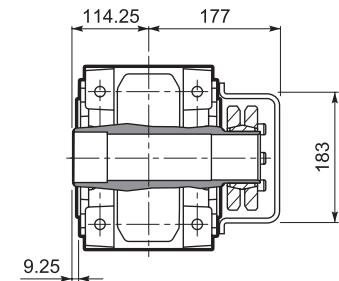
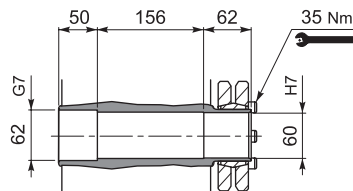
A 55...UD



A 55...UH

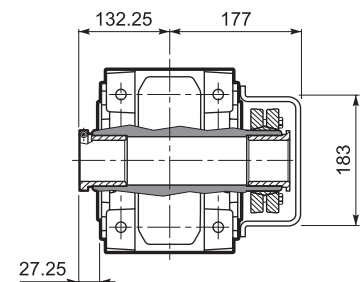
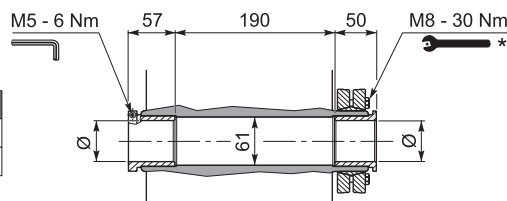


A 55...US

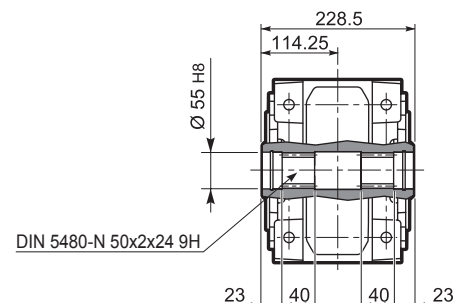


A 55...QF

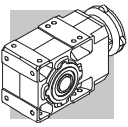
| | Ø |
|------|----|
| QF55 | 55 |
| QF60 | 60 |



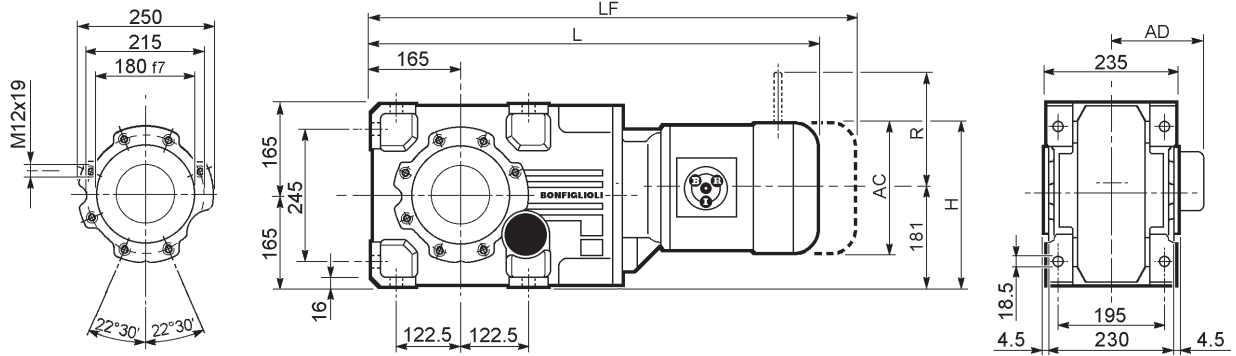
A 55...UV



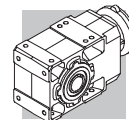
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



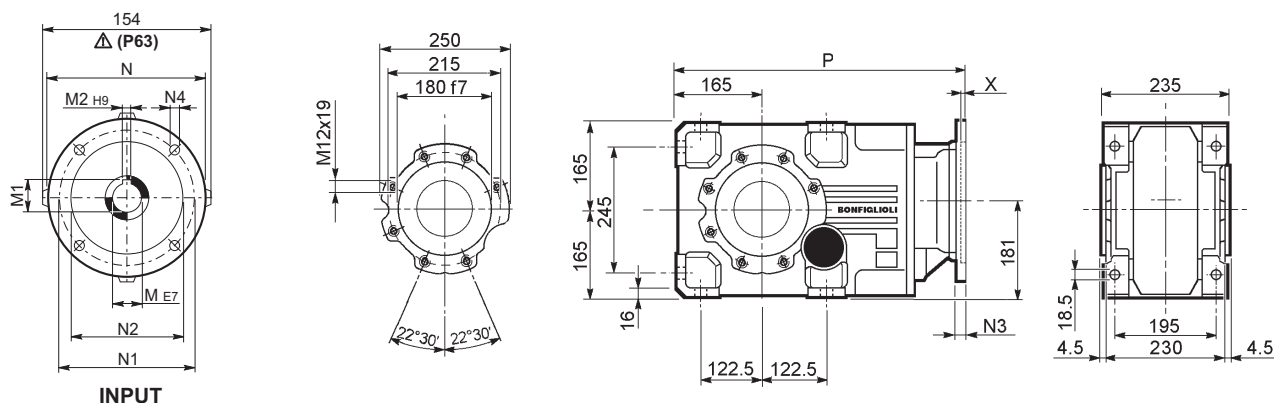
A 60...M



| | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | | | |
|--|--|--|----------|----|------|-----|-------|-------|------------------|-----|--------|-----|--------|-----|-----|-----|
| | | | AC | H | L | AD | | LF | | R | AD | R | AD | | | |
| | | | A 60 2/3 | S2 | M2S | 156 | 256.5 | 700.5 | 119 | 98 | 770.5 | 102 | 129 | 146 | 134 | 119 |
| | | | A 60 2/3 | S3 | M3S | 195 | 276 | 743.5 | 142 | 103 | 839.5 | 111 | 160 | 158 | 160 | 142 |
| | | | A 60 2/3 | S3 | M3L | 195 | 276 | 775.5 | 142 | 111 | 866.5 | 118 | 160 | 158 | 160 | 142 |
| | | | A 60 2/3 | S4 | M4 | 258 | 307.5 | 883.5 | 193 | 145 | 992.5 | 163 | 226 | 210 | 217 | 193 |
| | | | A 60 2/3 | S4 | M4LC | 258 | 307.5 | 918.5 | 193 | 153 | 1017.5 | 171 | 226 | 210 | 217 | 193 |
| | | | A 60 2/3 | S5 | M5S | 310 | 333.5 | 970 | 245 | 173 | 1110 | 203 | 266 | 245 | 247 | 245 |
| | | | A 60 2/3 | S5 | M5L | 310 | 333.5 | 1014 | 245 | 189 | 1154 | 219 | 266 | 245 | 247 | 245 |
| | | | A 60 4 | S1 | M1 | 138 | 247.5 | 742 | 108 | 100 | 803 | 103 | 103 | 135 | 124 | 108 |
| | | | A 60 4 | S2 | M2S | 156 | 256.5 | 771 | 119 | 104 | 841 | 108 | 129 | 146 | 134 | 119 |
| | | | A 60 4 | S3 | M3S | 195 | 276 | 814 | 142 | 109 | 910 | 117 | 160 | 158 | 160 | 142 |
| | | | A 60 4 | S3 | M3L | 195 | 276 | 846 | 142 | 117 | 937 | 124 | 160 | 158 | 160 | 142 |

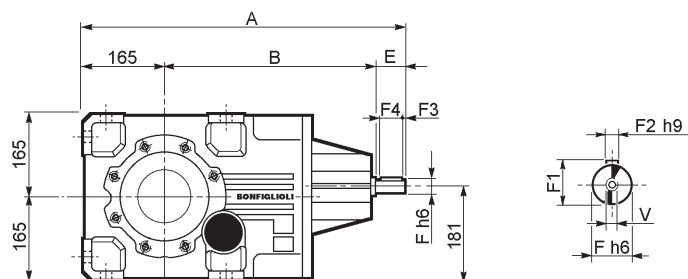


A 60...P(IEC)

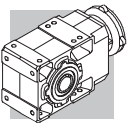


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg | | |
|--|--|----------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| | | A 60 3 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 516.5 | 90 |
| | | A 60 3 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 516.5 | 90 |
| | | A 60 2/3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 536 | 91 |
| | | A 60 2/3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 536 | 91 |
| | | A 60 2/3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 546 | 95 |
| | | A 60 2/3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 546 | 95 |
| | | A 60 2/3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 582.5 | 104 |
| | | A 60 2/3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 633 | 121 |
| | | A 60 2/3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 633 | 121 |
| | | A 60 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 587 | 88 |
| | | A 60 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 587 | 88 |
| | | A 60 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 606.5 | 90 |
| | | A 60 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 606.5 | 90 |
| | | A 60 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 616.5 | 94 |
| | | A 60 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 616.5 | 94 |

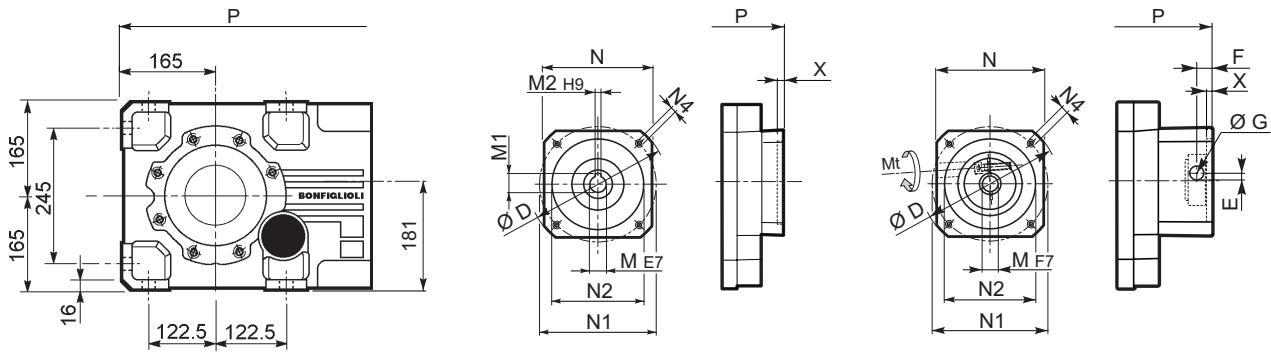
A 60...HS



| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg | | |
|--|--|--------|----|-----|-----|----|----|----|----|-----|----|--------|-----|
| | | A 60 2 | HS | 633 | 408 | 60 | 28 | 31 | 8 | 5.0 | 50 | M10x22 | 106 |
| | | A 60 3 | | 633 | 408 | 60 | 28 | 31 | 8 | 5.0 | 50 | M10x22 | 106 |
| | | A 60 4 | | 676 | 461 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 112 |



A 60...SK / SC



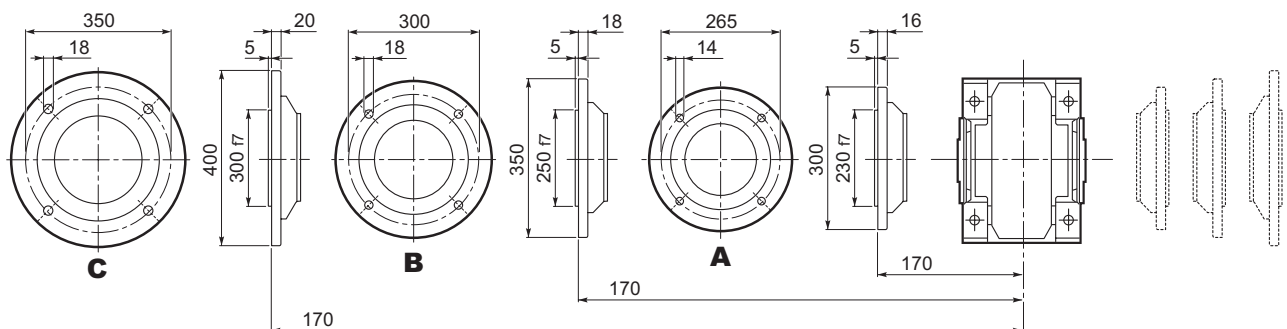
SK...

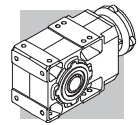
SC...

| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | | Kg |
|------------|--------|-----|----|------|----|-----|-----|-----|--------|---|-------|-------|-----------|
| | | | | | | | | | | | 2/3x | 4x | |
| A 60 4 | SK80B | 120 | 14 | 16.3 | 5 | 96 | 100 | 80 | M6x12 | 4 | — | 606.5 | 89 |
| A 60 2/3/4 | SK80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 536 | 606.5 | 93/93/92 |
| A 60 2/3/4 | SK95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 536 | 606.5 | 93/93/92 |
| A 60 2/3/4 | SK95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 536 | 606.5 | 93/93/92 |
| A 60 2/3/4 | SK95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 536 | 606.5 | 93/93/92 |
| A 60 2/3/4 | SK110A | 140 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 536 | 606.5 | 93/93/92 |
| A 60 2/3/4 | SK110B | 140 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 536 | 606.5 | 93/93/92 |
| A 60 2/3/4 | SK130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 536 | 606.5 | 97/97/103 |
| A 60 2/3 | SK130B | 189 | 32 | 35.3 | 10 | 160 | 165 | 130 | M10x20 | 5 | 582.5 | — | 102/102 |
| A 60 2/3 | SK180A | 240 | 32 | 35.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 582.5 | — | 102/102 |
| A 60 2/3 | SK180B | 240 | 38 | 41.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 582.5 | — | 102/102 |

| | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | | Kg |
|------------|--------|----------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|-----|-----------|
| | | | | | | | | | | | | | 2/3x | 3x | |
| A 60 4 | SC80B | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 14 | 96 | 100 | 80 | M6x12 | 4 | — | 630 | 90 |
| A 60 2/3/4 | SC80C | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 559.5 | 630 | 94/94/93 |
| A 60 2/3/4 | SC95A | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 559.5 | 630 | 94/94/93 |
| A 60 2/3/4 | SC95B | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 559.5 | 630 | 94/94/93 |
| A 60 2/3/4 | SC95C | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 559.5 | 630 | 94/94/93 |
| A 60 2/3/4 | SC110A | M6 15 Nm | 140 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 559.5 | 630 | 95/95/93 |
| A 60 2/3/4 | SC110B | M6 15 Nm | 140 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 559.5 | 630 | 95/95/93 |
| A 60 2/3/4 | SC130A | M6 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 559.5 | 630 | 96/96/104 |
| A 60 2/3 | SC130B | M8 36 Nm | 189 | 20 | 17 | 17.75 | 32 | 160 | 165 | 130 | M10x20 | 5 | 605.5 | — | 105/105 |
| A 60 2/3 | SC180A | M8 36 Nm | 240 | 20 | 17.5 | 17.75 | 32 | 192 | 215 | 180 | M12x24 | 5 | 609.5 | — | 105/105 |
| A 60 2/3 | SC180B | M8 36 Nm | 240 | 20 | 17.5 | 17.75 | 38 | 192 | 215 | 180 | M12x24 | 5 | 609.5 | — | 105/105 |

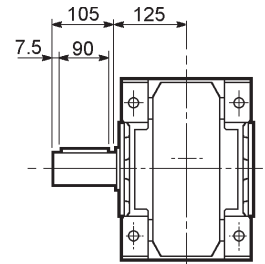
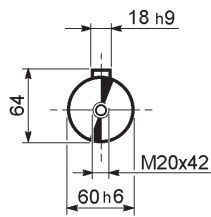
A 60...F...



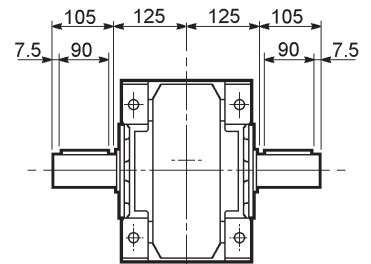
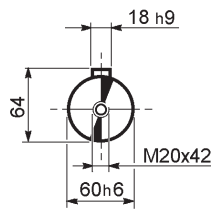


A 60

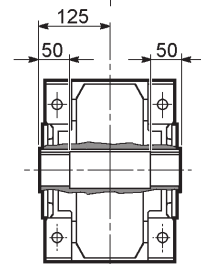
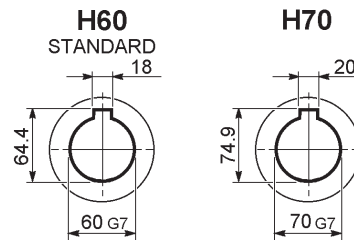
A 60...UR



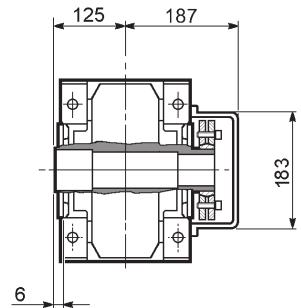
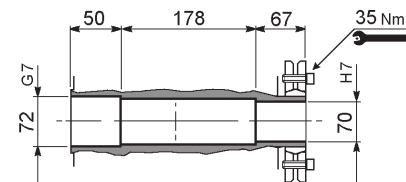
A 60...UD



A 60...UH

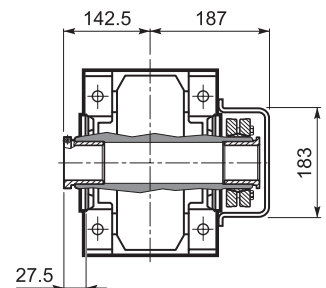
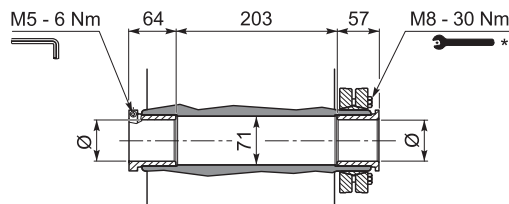


A 60...US

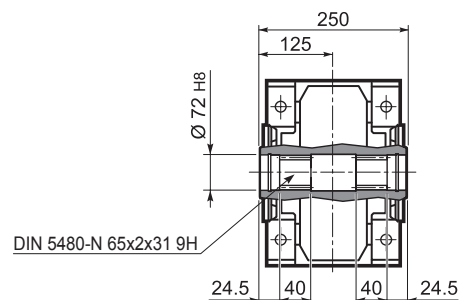


A 60...QF

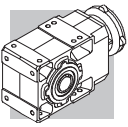
| | Ø |
|------|----|
| QF60 | 60 |
| QF65 | 65 |
| QF70 | 70 |



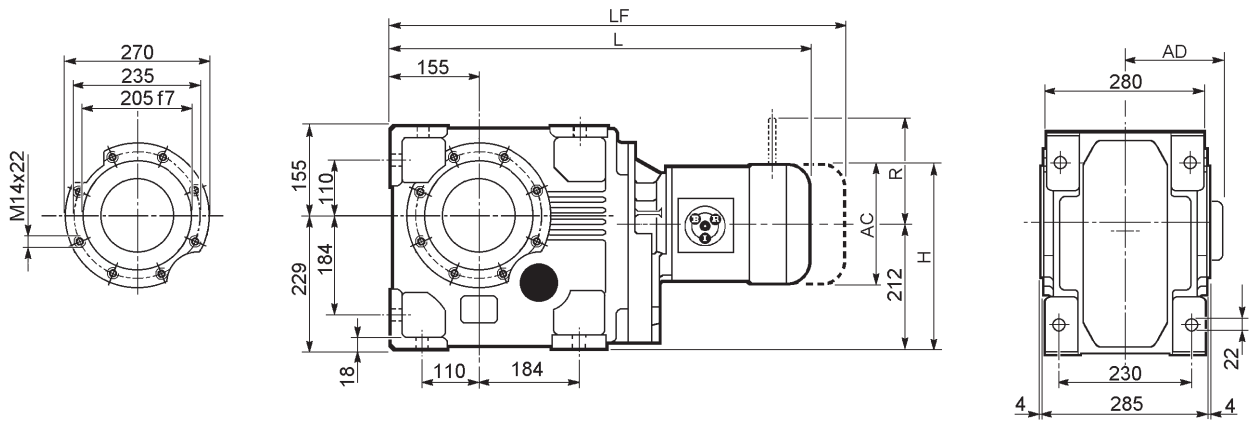
A 60...UV



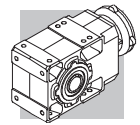
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



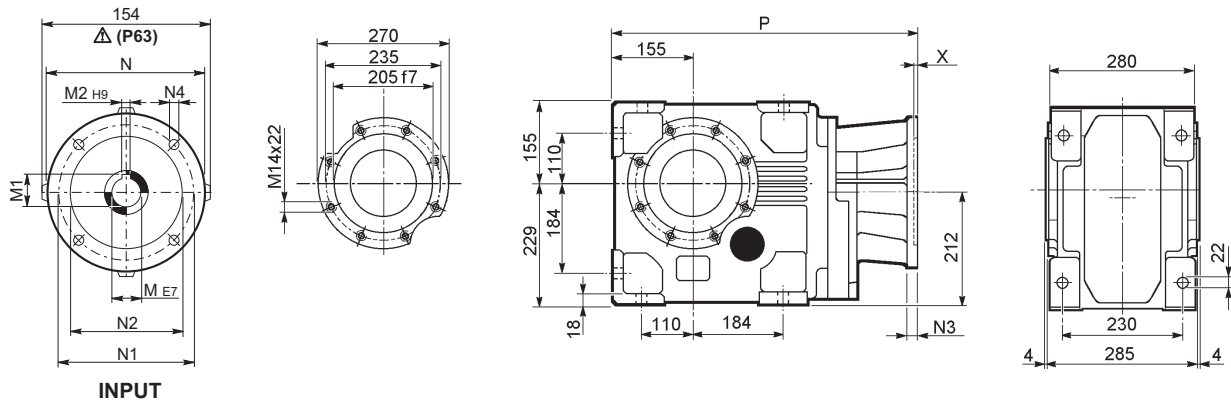
A 70...M



| | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|---------------|-----------|-------------|-----|-------|-------|-----|-----|--------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | AD | | LF | | R | AD | R | AD | |
| A 70 3 | S2 | M2S | 156 | 290 | 688.5 | 119 | 152 | 758.5 | 156 | 129 | 146 | 134 | 119 | |
| A 70 3 | S3 | M3S | 195 | 309.5 | 731.5 | 142 | 157 | 827.5 | 164 | 160 | 158 | 160 | 142 | |
| A 70 3 | S3 | M3L | 195 | 309.5 | 763.5 | 142 | 164 | 854.5 | 171 | 160 | 158 | 160 | 142 | |
| A 70 3 | S4 | M4 | 258 | 341 | 872.5 | 193 | 198 | 981.5 | 216 | 226 | 210 | 217 | 193 | |
| A 70 3 | S4 | M4LC | 258 | 341 | 907.5 | 193 | 206 | 1006.5 | 224 | 226 | 210 | 217 | 193 | |
| A 70 3 | S5 | M5S | 310 | 367 | 958 | 245 | 226 | 1098 | 256 | 266 | 245 | 247 | 245 | |
| A 70 3 | S5 | M5L | 310 | 367 | 1002 | 245 | 242 | 1142 | 272 | 266 | 245 | 247 | 245 | |
| A 70 4 | S1 | M1 | 138 | 281 | 710.5 | 108 | 152 | 771.5 | 155 | 103 | 135 | 124 | 108 | |
| A 70 4 | S2 | M2S | 156 | 290 | 739.5 | 119 | 156 | 809.5 | 160 | 129 | 146 | 134 | 119 | |
| A 70 4 | S3 | M3S | 195 | 309.5 | 782.5 | 142 | 161 | 878.5 | 168 | 160 | 158 | 160 | 142 | |
| A 70 4 | S3 | M3L | 195 | 309.5 | 814.5 | 142 | 168 | 905.5 | 175 | 160 | 158 | 160 | 142 | |
| A 70 4 | S4 | M4 | 258 | 341 | 922.5 | 193 | 202 | 1031.5 | 220 | 226 | 210 | 217 | 193 | |
| A 70 4 | S4 | M4LC | 258 | 341 | 957.5 | 193 | 210 | 1056.5 | 228 | 226 | 210 | 217 | 193 | |

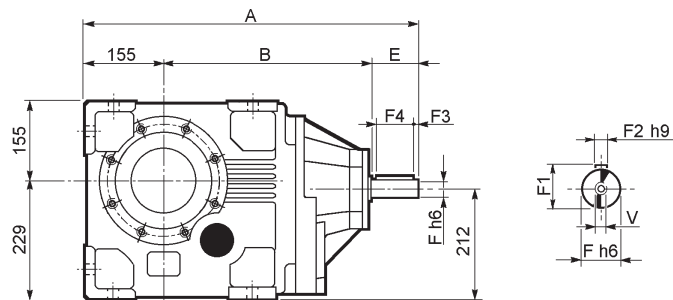


A 70...P(IEC)

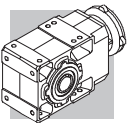


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| A 70 3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 524 | 144 |
| A 70 3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 524 | 144 |
| A 70 3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 534 | 146 |
| A 70 3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 534 | 146 |
| A 70 3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 570.5 | 154 |
| A 70 3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 6 | 626 | 169 |
| A 70 3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 6 | 626 | 169 |
| A 70 3 | P200 | 55 | 59.3 | 16 | 400 | 350 | 300 | — | M16x25 | 7 | 651 | 179 |
| A 70 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 555.5 | 146 |
| A 70 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 555.5 | 146 |
| A 70 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 575 | 147 |
| A 70 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 575 | 147 |
| A 70 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 585 | 148 |
| A 70 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 585 | 148 |
| A 70 4 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 618.5 | 157 |

A 70...HS

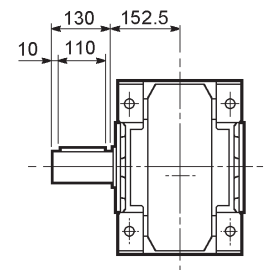
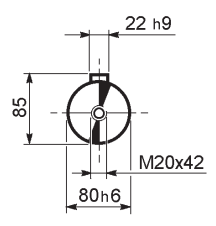


| | | A | B | E | F | F1 | F2 | F3 | F4 | V | |
|--------|----|-------|-------|-----|----|----|----|-----|----|--------|-----|
| A 70 3 | HS | 708.5 | 443.5 | 110 | 42 | 45 | 12 | 10 | 90 | M12x28 | 165 |
| A 70 4 | | 644.5 | 439.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 149 |

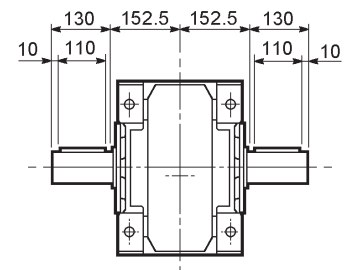
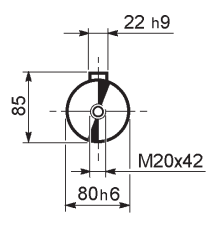


A 70

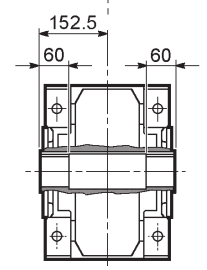
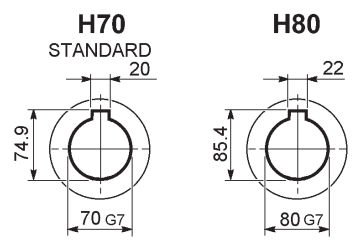
A 70...UR



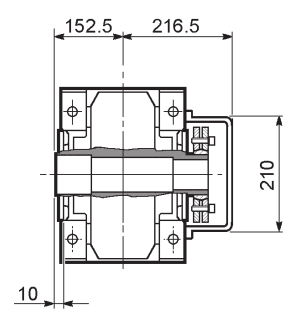
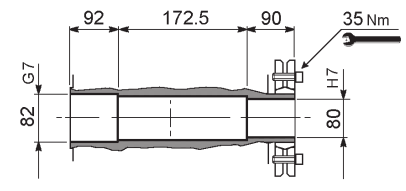
A 70...UD



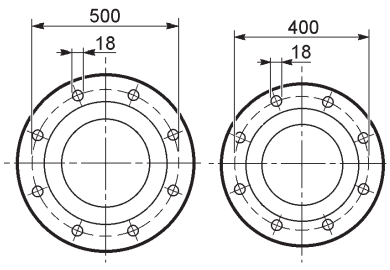
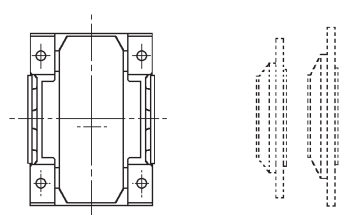
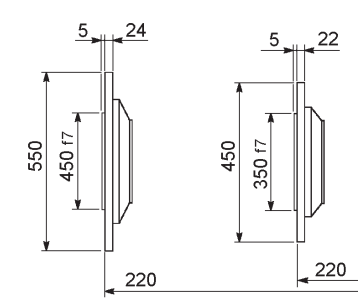
A 70...UH



A 70...US

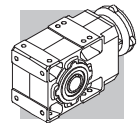


A 70...F...

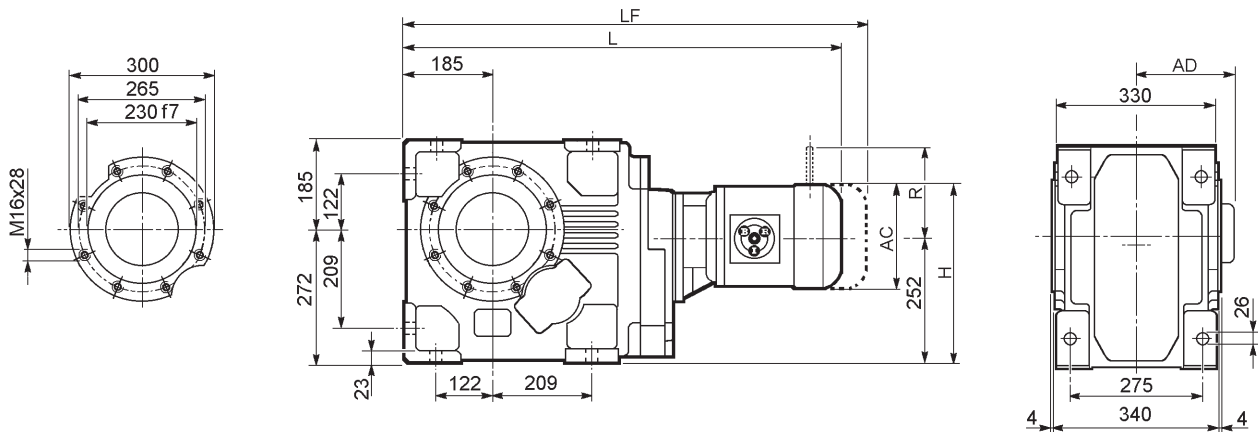


B

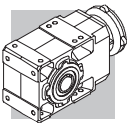
A



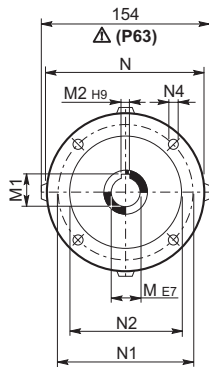
A 80...M



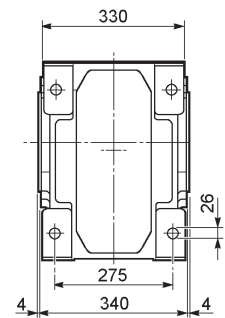
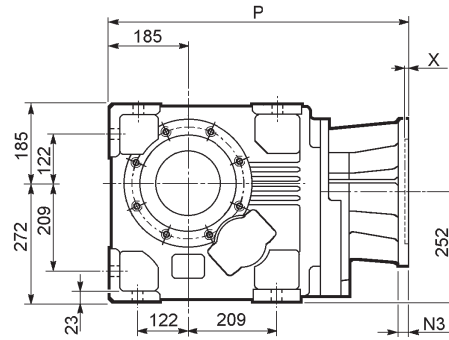
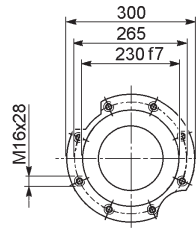
| | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|---------------|-----------|-------------|-----|-------|--------|-----|-----|--------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | AD | | LF | | R | AD | R | AD | |
| A 80 3 | S3 | M3S | 195 | 349.5 | 809.5 | 142 | 256 | 905.5 | 264 | 160 | 158 | 160 | 142 | |
| A 80 3 | S3 | M3L | 195 | 349.5 | 841.5 | 142 | 264 | 932.5 | 271 | 160 | 158 | 160 | 142 | |
| A 80 3 | S4 | M4 | 258 | 381 | 949.5 | 193 | 298 | 1058.5 | 316 | 226 | 210 | 217 | 193 | |
| A 80 3 | S4 | M4LC | 258 | 381 | 984.5 | 193 | 306 | 1083.5 | 324 | 226 | 210 | 217 | 193 | |
| A 80 3 | S5 | M5S | 310 | 407 | 1036 | 245 | 326 | 1176 | 356 | 266 | 245 | 247 | 245 | |
| A 80 3 | S5 | M5L | 310 | 407 | 1080 | 245 | 342 | 1220 | 372 | 266 | 245 | 247 | 245 | |
| A 80 4 | S1 | M1 | 138 | 321 | 800.5 | 108 | 246 | 861.5 | 249 | 103 | 135 | 124 | 108 | |
| A 80 4 | S2 | M2S | 156 | 330 | 829.5 | 119 | 250 | 899.5 | 254 | 129 | 146 | 134 | 119 | |
| A 80 4 | S3 | M3S | 195 | 349.5 | 872.5 | 142 | 255 | 968.5 | 262 | 160 | 158 | 160 | 142 | |
| A 80 4 | S3 | M3L | 195 | 349.5 | 904.5 | 142 | 262 | 995.5 | 269 | 160 | 158 | 160 | 142 | |
| A 80 4 | S4 | M4 | 258 | 381 | 1012.5 | 193 | 296 | 1121.5 | 314 | 226 | 210 | 217 | 193 | |
| A 80 4 | S4 | M4LC | 258 | 381 | 1047.5 | 193 | 304 | 1146.5 | 322 | 226 | 210 | 217 | 193 | |



A 80...P(IEC)

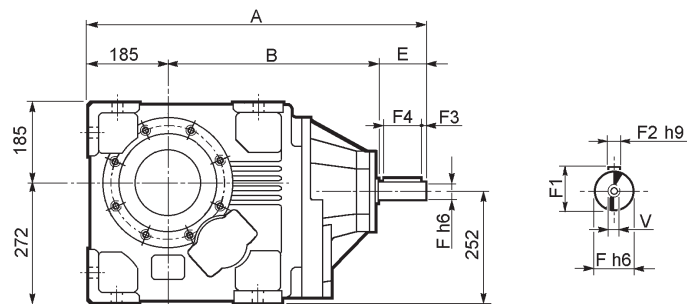


INPUT

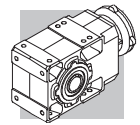


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg | | |
|--|--|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| | | A 80 3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 602 | 243 |
| | | A 80 3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 602 | 243 |
| | | A 80 3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 612 | 245 |
| | | A 80 3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 612 | 245 |
| | | A 80 3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 648.5 | 253 |
| | | A 80 3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 6 | 704 | 268 |
| | | A 80 3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 6 | 704 | 268 |
| | | A 80 3 | P200 | 55 | 59.3 | 16 | 400 | 350 | 300 | — | M16x25 | 7 | 729 | 279 |
| | | A 80 3 | P225 | 60 | 64.4 | 18 | 450 | 400 | 350 | 25 | 18 | 6 | 774.5 | 298 |
| | | A 80 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 645.5 | 248 |
| | | A 80 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 645.5 | 248 |
| | | A 80 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 665 | 249 |
| | | A 80 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 665 | 249 |
| | | A 80 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 675 | 250 |
| | | A 80 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 675 | 250 |
| | | A 80 4 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | M12x16 | 5 | 711.5 | 259 |

A 80...HS

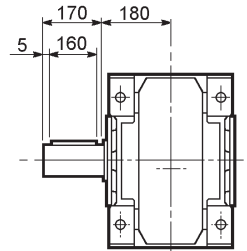
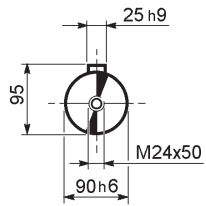


| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg | |
|--|--|--------|-------|-------|-----|----|----|----|-----|----|--------|-----|
| | | A 80 3 | 786.5 | 491.5 | 110 | 42 | 45 | 12 | 10 | 90 | M12x28 | 265 |
| | | A 80 4 | 735 | 499 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 250 |

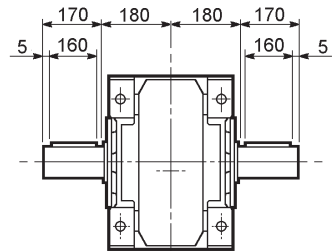
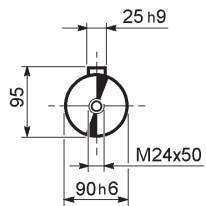


A 80

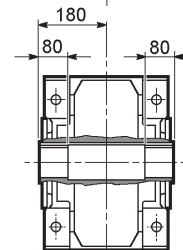
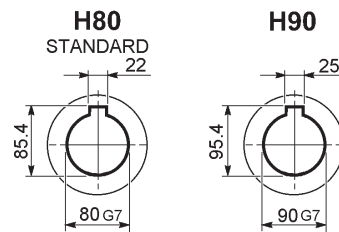
A 80...UR



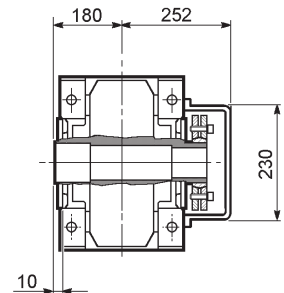
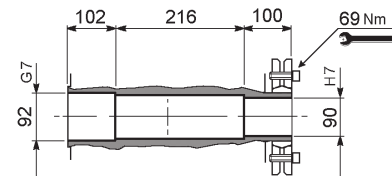
A 80...UD



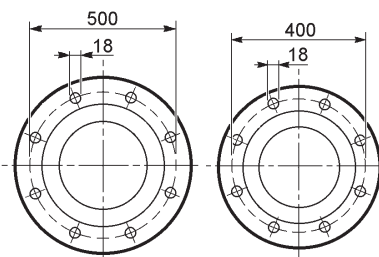
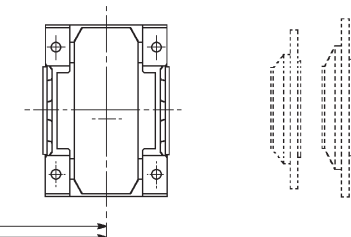
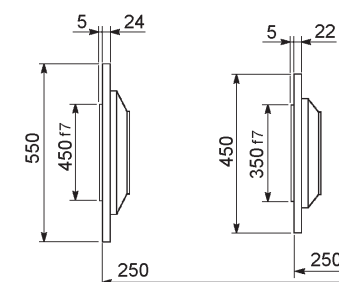
A 80...UH



A 80...US

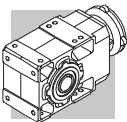


A 80...F...

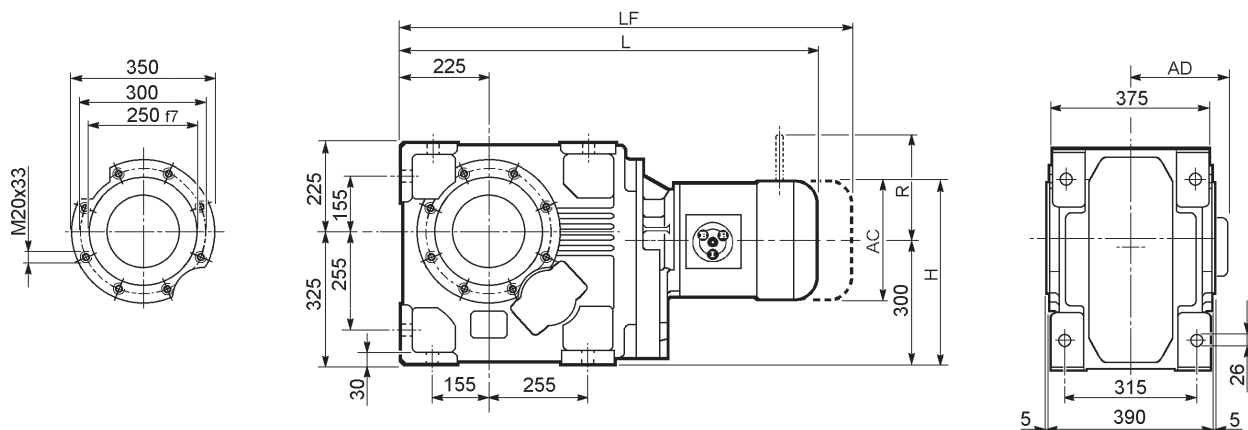


B

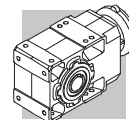
A



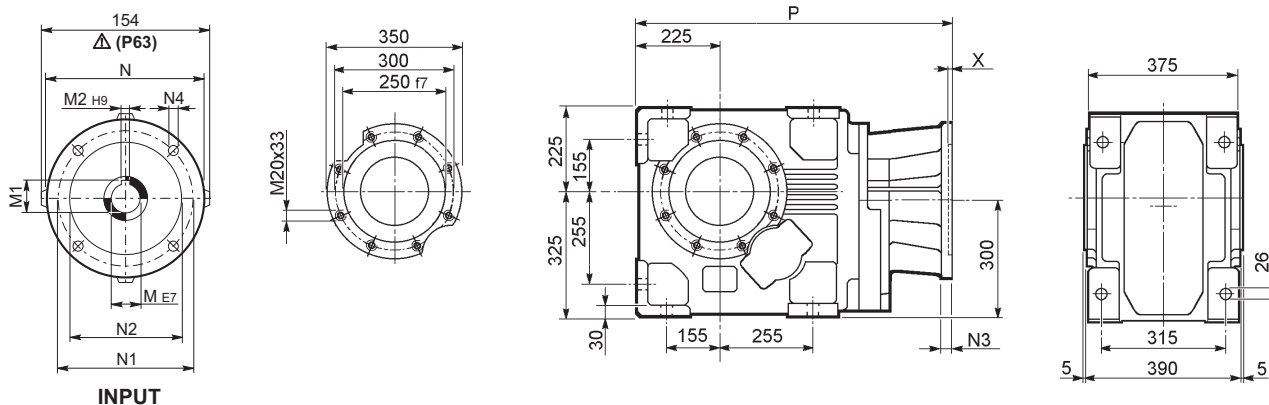
A 90...M



| | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|--|--|--|-----|-------|--------|-----|-----|--------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | AD | | LF | | R | AD | R | AD | |
| | | | 195 | 397.5 | 930.5 | 142 | 413 | 1026.5 | 420 | 160 | 158 | 160 | 142 | |
| | | | 195 | 397.5 | 962.5 | 142 | 420 | 1053.5 | 427 | 160 | 158 | 160 | 142 | |
| | | | 258 | 429 | 1070.5 | 193 | 454 | 1179.5 | 472 | 226 | 210 | 217 | 193 | |
| | | | 258 | 429 | 1105.5 | 193 | 462 | 1204.5 | 480 | 226 | 210 | 217 | 193 | |
| | | | 310 | 455 | 1157 | 245 | 482 | 1297 | 512 | 266 | 245 | 247 | 245 | |
| | | | 310 | 455 | 1201 | 245 | 498 | 1341 | 528 | 266 | 245 | 247 | 245 | |
| | | | 138 | 369 | 941.5 | 108 | 412 | 1002.5 | 249 | 103 | 135 | 124 | 108 | |
| | | | 156 | 378 | 970.5 | 119 | 422 | 1040.5 | 426 | 129 | 146 | 134 | 119 | |
| | | | 195 | 397.5 | 1013.5 | 142 | 427 | 1109.5 | 434 | 160 | 158 | 160 | 142 | |
| | | | 195 | 397.5 | 1045.5 | 142 | 434 | 1136.5 | 441 | 160 | 158 | 160 | 142 | |
| | | | 258 | 429 | 1153.5 | 193 | 468 | 1262.5 | 486 | 226 | 210 | 217 | 193 | |
| | | | 258 | 429 | 1188.5 | 193 | 476 | 1287.5 | 494 | 226 | 210 | 217 | 193 | |



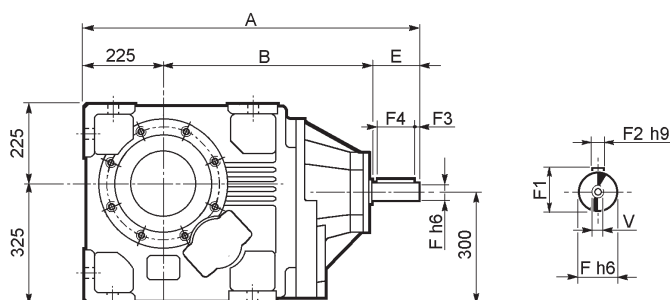
A 90...P(IEC)



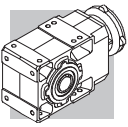
INPUT

| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| A 90 3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 723 | 400 |
| A 90 3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 723 | 400 |
| A 90 3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 733 | 401 |
| A 90 3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 733 | 401 |
| A 90 3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 769.5 | 409 |
| A 90 3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 6 | 825 | 428 |
| A 90 3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 6 | 825 | 429 |
| A 90 3 | P200 | 55 | 59.3 | 16 | 400 | 350 | 300 | — | M16x25 | 7 | 850 | 436 |
| A 90 3 | P225 | 60 | 64.4 | 18 | 450 | 400 | 350 | 30 | 18 | 6 | 895.5 | 472 |
| A 90 3 | P250 | 65 | 69.4 | 18 | 550 | 500 | 450 | 30 | 18 | 6 | 925.5 | 475 |
| A 90 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 786.5 | 411 |
| A 90 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 786.5 | 412 |
| A 90 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 806 | 413 |
| A 90 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 806 | 413 |
| A 90 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 816 | 415 |
| A 90 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 816 | 415 |
| A 90 4 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 852.5 | 423 |
| A 90 4 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 903 | 434 |
| A 90 4 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 903 | 434 |

A 90...HS

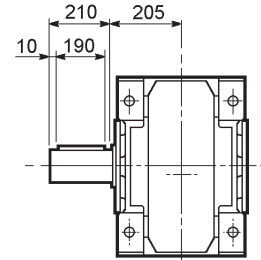
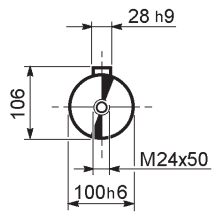


| | | A | B | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|-------|-----|----|----|----|-----|-----|--------|-----|
| A 90 3 | HS | 1009 | 644 | 140 | 60 | 64 | 18 | 10 | 120 | M16x36 | 465 |
| A 90 4 | | 875.5 | 600.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 415 |

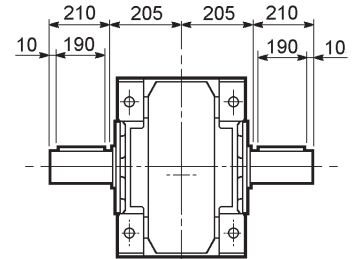
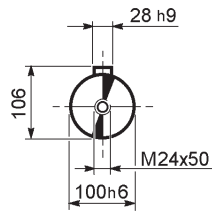


A 90

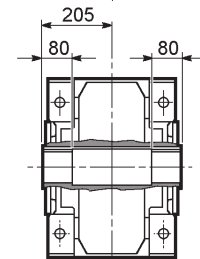
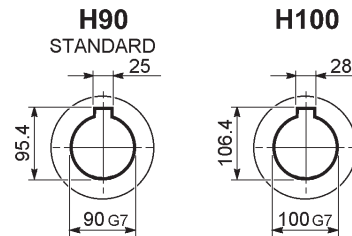
A 90...UR



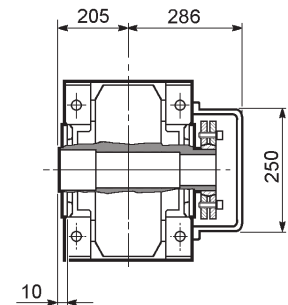
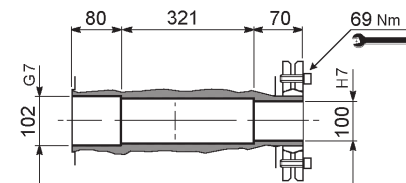
A 90...UD



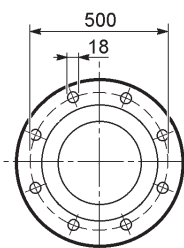
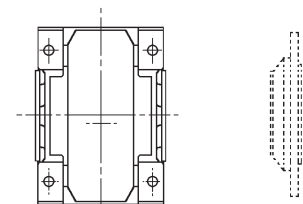
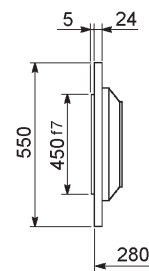
A 90...UH



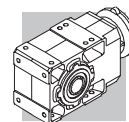
A 90...US



A 90...F...



A

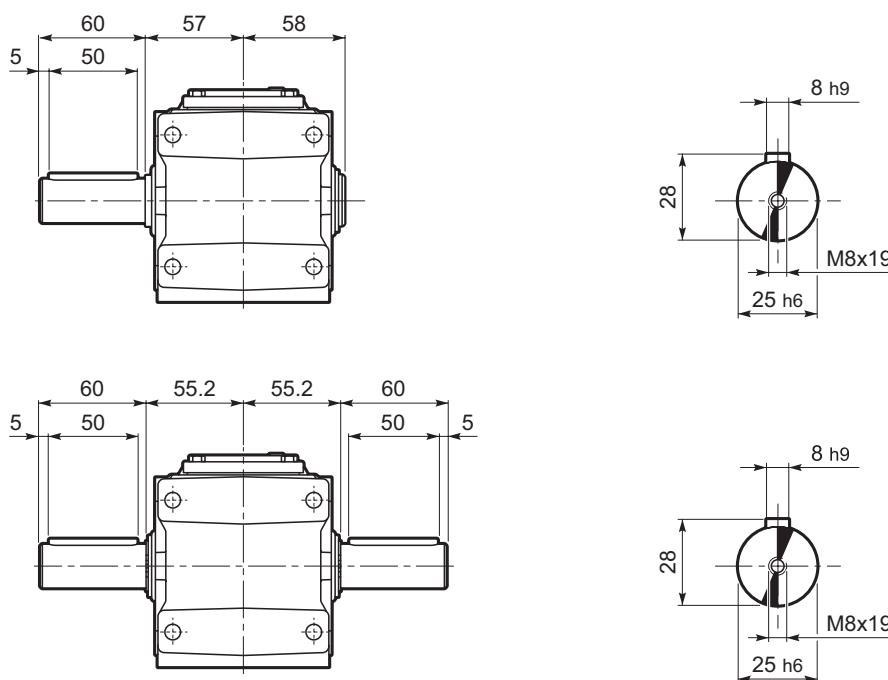


45 ACCESSOIRES

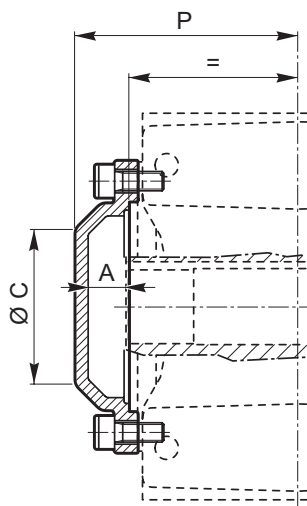
45.1 Arbre lent rapporté A05

Pour le réducteur A 05 est disponible un kit pour l'arbre lent comprenant : arbre, circlips, rondelle et clavettes. Le kit existe pour les exécutions « arbre lent simple » (**kit arbre lent simple A 05**) et « arbre lent double » (**kit arbre lent double A 05**).

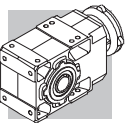
L'arbre simple peut être monté sur chacun des deux cotés et son montage ne demande aucun outillage spécifique.



45.2 Couvercle de sécurité

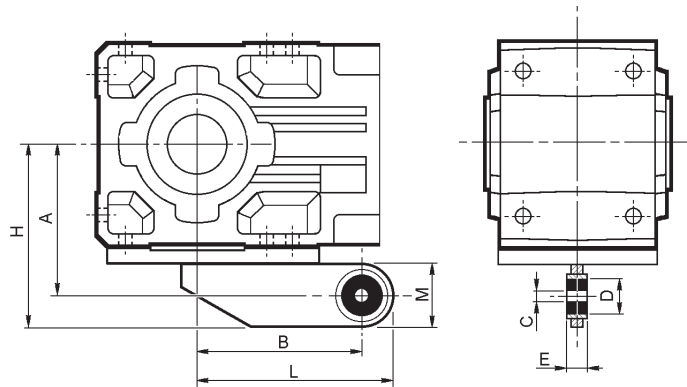


| | A | Ø C | P |
|-------------|------|-----|-------|
| A 05 | 17.5 | 36 | 73.5 |
| A 10 | 20.5 | 60 | 84.5 |
| A 20 | 20 | 75 | 94 |
| A 30 | 20 | 75 | 104 |
| A 35 | 19.5 | 80 | 114 |
| A 41 | 21 | 110 | 120 |
| A 50 | 26 | 100 | 148.5 |
| A 55 | 27 | 100 | 149 |
| A 60 | 25 | 100 | 158 |
| A 70 | 33.5 | 120 | 193.5 |
| A 80 | 38 | 140 | 228 |
| A 90 | 43 | 152 | 258 |

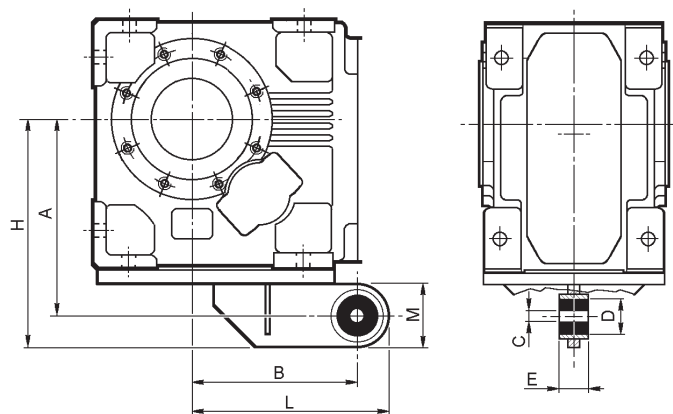


45.3 Bras de réaction

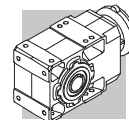
Le bras de réaction est fourni avec vis de serrage.



| | A | B | C | D | E | H | L | M |
|-------------|------|-----|----|----|----|-------|-----|----|
| A 05 | 90.5 | 80 | 10 | 30 | 20 | 115.5 | 105 | 50 |
| A 10 | 108 | 118 | 10 | 30 | 20 | 138 | 148 | 60 |
| A 20 | 118 | 137 | 10 | 30 | 20 | 148 | 167 | 60 |
| A 30 | 135 | 150 | 20 | 40 | 25 | 170 | 185 | 70 |
| A 35 | 145 | 165 | 20 | 40 | 25 | 180 | 200 | 70 |
| A 41 | 157 | 200 | 20 | 40 | 25 | 192 | 235 | 70 |
| A 50 | 200 | 250 | 32 | 56 | 40 | 245 | 295 | 90 |
| A 55 | 200 | 250 | 32 | 56 | 40 | 245 | 295 | 90 |
| A 60 | 225 | 300 | 32 | 56 | 40 | 270 | 345 | 90 |



| | A | B | C | D | E | H | L | M |
|-------------|-----|-----|----|----|----|-----|-----|-----|
| A 70 | 289 | 250 | 32 | 56 | 40 | 334 | 295 | 90 |
| A 80 | 357 | 300 | 42 | 78 | 60 | 422 | 365 | 130 |
| A 90 | 410 | 350 | 42 | 78 | 60 | 475 | 415 | 130 |

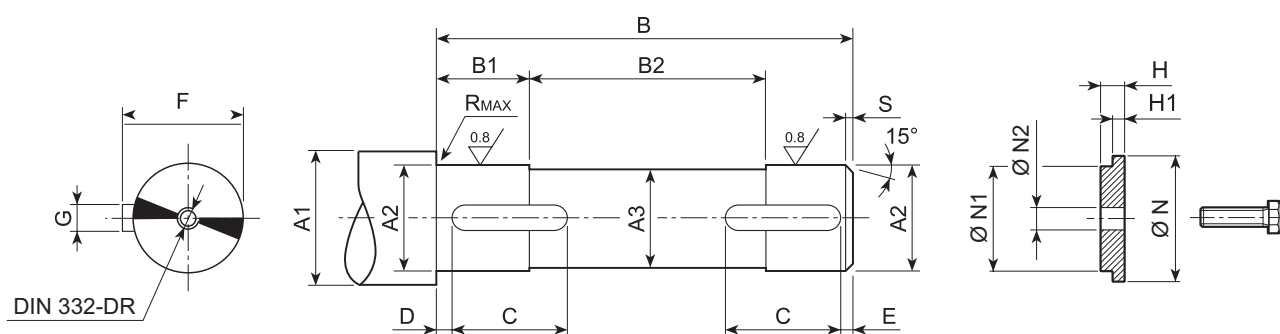




46 ARBRE MACHINE

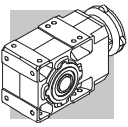
Nous conseillons de réaliser l'arbre accouplé avec le réducteur avec de l'acier de bonne qualité et de respecter les dimensions indiquées sur le tableau.

Il est recommandé de compléter le montage par un dispositif de blocage axial de l'arbre, à titre d'exemple voir comme illustré ci-dessous, en prenant soin de vérifier et de dimensionner les divers composants en fonction des différentes exigences de l'application.

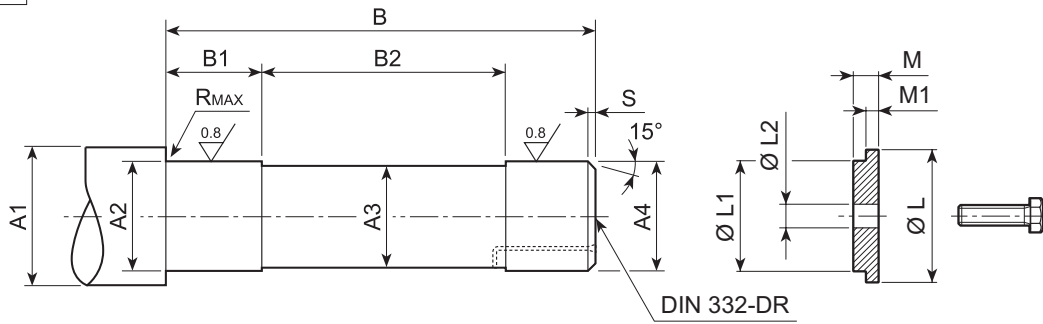
UH_




| | A1 | A2 | A3 | B | B1 | B2 | C | D | E | F | G | R | S |  | N | N1 | N2 | H | H1 |  |
|------------------|-------|--------|----|-----|------|-----|-----|-----|-----|------|-------|-----|-----|--|--------|--------|----|-----|------|---|
| | | | | | | | | | | | | | | UNI 6604 | | | | | | UNI 5739 |
| A05 UH25 | ≥ 30 | 25 h7 | 24 | 102 | 21 | 62 | 20 | 2 | 2 | 28 | 8 h9 | 0.5 | 1.5 | 8x7x20 A | 35 | 25 d9 | 9 | 7 | 5.5 | M8x25 |
| A10 UH30 | ≥ 35 | 30 h7 | 29 | 118 | 16 | 87 | 20 | 2 | 2 | 33 | 8 h9 | 0.5 | 1.5 | 8x7x20 A | 35 | 30 d9 | 11 | 8.5 | 7 | M10x30 |
| A10 UH25 | ≥ 30 | 25 h7 | 24 | 118 | 16 | 87 | 20 | 2 | 2 | 28 | 8 h9 | 0.5 | 1.5 | 8x7x20 A | 30÷35 | 25 d9 | 9 | 7 | 5.5 | M8x25 |
| A20 UH35 | ≥ 42 | 35 h7 | 34 | 138 | 20 | 98 | 20 | 2 | 2 | 38 | 10 h9 | 0.5 | 1.5 | 10x8x20 A | 42 | 35 d9 | 11 | 8.5 | 7 | M10x30 |
| A20 UH30 | ≥ 35 | 30 h7 | 29 | 138 | 20 | 98 | 25 | 2 | 2 | 33 | 8 h9 | 0.5 | 1.5 | 8x7x25 A | 35÷42 | 30 d9 | 11 | 8.5 | 7 | M10x30 |
| A30 UH40 | ≥ 47 | 40 h7 | 39 | 158 | 23 | 112 | 30 | 2 | 2 | 43 | 12 h9 | 0.5 | 1.5 | 12x8x30 A | 47 | 40 d9 | 14 | 8.5 | 7 | M12x35 |
| A30 UH35 | ≥ 42 | 35 h7 | 34 | 158 | 23 | 112 | 30 | 2 | 2 | 38 | 10 h9 | 0.5 | 1.5 | 10x8x30 A | 42÷47 | 35 d9 | 11 | 8.5 | 7 | M10x30 |
| A35 UH40 | ≥ 47 | 40 h7 | 39 | 175 | 33 | 109 | 40 | 2 | 2 | 43 | 12 h9 | 1 | 1.5 | 12x8x40 A | 47 | 40 d9 | 14 | 8.5 | 7 | M12x35 |
| A35 UH35 | ≥ 42 | 35 h7 | 34 | 175 | 33 | 109 | 40 | 2 | 2 | 38 | 10 h9 | 1 | 1.5 | 10x8x40 A | 42÷47 | 35 d9 | 11 | 8.5 | 7 | M10x30 |
| A41 UH45 | ≥ 52 | 45 h7 | 44 | 184 | 28 | 128 | 45 | 2.5 | 2.5 | 49.5 | 14 h9 | 1 | 2 | 14x9x45 A | 52 | 45 d9 | 14 | 8.5 | 7 | M12x35 |
| A41 UH40 | ≥ 47 | 40 h7 | 39 | 184 | 28 | 128 | 50 | 2.5 | 2.5 | 43 | 12 h9 | 1 | 2 | 12x8x50 A | 47÷52 | 40 d9 | 14 | 8.5 | 7 | M12x35 |
| A50 UH55 | ≥ 63 | 55 h7 | 54 | 226 | 37.5 | 151 | 55 | 2.5 | 2.5 | 59 | 16 h9 | 1 | 2 | 16x10x55 A | 63 | 55 d9 | 22 | 10 | 8 | M20x50 |
| A50 UH50 | ≥ 57 | 50 h7 | 49 | 226 | 37.5 | 151 | 65 | 2.5 | 2.5 | 53.5 | 14 h9 | 1 | 2 | 14x9x65 A | 57÷63 | 50 d9 | 18 | 10 | 8 | M16x45 |
| A55 UH60 | ≥ 70 | 60 h7 | 59 | 226 | 37.5 | 151 | 65 | 2.5 | 2.5 | 64 | 18 h9 | 2 | 2 | 18x11x65 A | 70 | 60 d9 | 22 | 10 | 8 | M20x50 |
| A55 UH50 | ≥ 60 | 50 h7 | 49 | 226 | 37.5 | 151 | 75 | 2.5 | 2.5 | 53.5 | 14 h9 | 2 | 2 | 14x9x75 A | 60÷70 | 50 d9 | 18 | 10 | 8 | M16x45 |
| A60 UH70 | ≥ 78 | 70 h7 | 69 | 248 | 48 | 152 | 70 | 2.5 | 2.5 | 74.5 | 20 h9 | 2.5 | 2 | 20x12x70 A | 78 | 70 d9 | 22 | 10 | 8.5 | M20x50 |
| A60 UH60 | ≥ 68 | 60 h7 | 59 | 248 | 48 | 152 | 80 | 2.5 | 2.5 | 64 | 18 h9 | 2.5 | 2 | 18x11x80 A | 68÷78 | 60 d9 | 22 | 10 | 8.5 | M20x50 |
| A70 UH80 | ≥ 89 | 80 h7 | 79 | 303 | 58 | 187 | 90 | 3 | 3 | 85 | 22 h9 | 2.5 | 2.5 | 22x14x90 A | 89 | 80 d9 | 22 | 10 | 8.5 | M20x50 |
| A70 UH70 | ≥ 78 | 70 h7 | 69 | 303 | 58 | 187 | 110 | 3 | 3 | 74.5 | 20 h9 | 2.5 | 2.5 | 20x12x110 A | 78÷89 | 70 d9 | 22 | 10 | 8.5 | M20x50 |
| A80 UH90 | ≥ 99 | 90 h7 | 89 | 358 | 78 | 202 | 120 | 3 | 3 | 95 | 25 h9 | 2.5 | 2.5 | 25x14x120 A | 99 | 90 d9 | 26 | 22 | 20.5 | M24x70 |
| A80 UH80 | ≥ 89 | 80 h7 | 79 | 358 | 78 | 202 | 130 | 3 | 3 | 85 | 22 h9 | 2.5 | 2.5 | 22x14x130 A | 89÷99 | 80 d9 | 22 | 10 | 8.5 | M20x50 |
| A90 UH100 | ≥ 111 | 100 h7 | 99 | 408 | 78 | 252 | 160 | 3 | 3 | 106 | 28 h9 | 2.5 | 2.5 | 28x16x160 A | 111 | 100 d9 | 26 | 22 | 20.5 | M24x70 |
| A90 UH90 | ≥ 99 | 90 h7 | 89 | 408 | 78 | 252 | 190 | 3 | 3 | 95 | 25 h9 | 2.5 | 2.5 | 25x14x190 A | 99÷111 | 90 d9 | 26 | 22 | 20.5 | M24x70 |

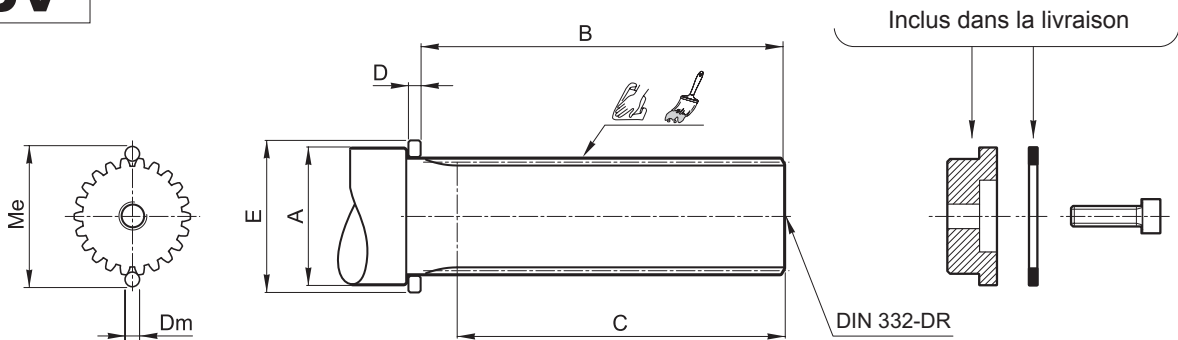




US

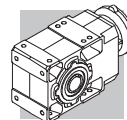


| | A1 | A2 | A3 | A4 | B | B1 | B2 | R | S | L | L1 | L2 | M | M1 |  UNI 5739 |
|-------------|-------|--------|----|--------|-------|-----|-------|-----|-----|------|--------|----|-----|------|--|
| A 05 | ≥ 35 | 27 h7 | 24 | 25 h6 | 129.5 | 32 | 63.5 | 0.5 | 1.5 | 29.5 | 25 d9 | 11 | 8.5 | 7 | M10x30 |
| A 10 | ≥ 42 | 32 h7 | 29 | 30 h6 | 147.5 | 34 | 77.5 | 0.5 | 1.5 | 35.5 | 30 d9 | 11 | 8.5 | 7 | M10x30 |
| A 20 | ≥ 48 | 37 h7 | 34 | 35 h6 | 170 | 40 | 89 | 0.5 | 1.5 | 43 | 35 d9 | 14 | 8.5 | 7 | M12x35 |
| A 30 | ≥ 54 | 42 h7 | 39 | 40 h6 | 191.5 | 48 | 95.5 | 0.5 | 1.5 | 49 | 40 d9 | 18 | 10 | 8.5 | M16x45 |
| A 35 | ≥ 54 | 42 h7 | 39 | 40 h6 | 208.5 | 48 | 112.5 | 0.5 | 1.5 | 49 | 40 d9 | 18 | 10 | 8.5 | M16x45 |
| A 41 | ≥ 60 | 47 h7 | 44 | 45 h6 | 222 | 53 | 117 | 1 | 2 | 54 | 45 d9 | 18 | 10 | 8.5 | M16x45 |
| A 50 | ≥ 72 | 57 h7 | 54 | 55 g6 | 264 | 46 | 156 | 1 | 2 | 72 | 55 d9 | 22 | 10 | 8.5 | M20x50 |
| A 55 | ≥ 72 | 62 h7 | 59 | 60 g6 | 266 | 46 | 158 | 2.5 | 2 | 72 | 60 d9 | 22 | 10 | 8.5 | M20x50 |
| A 60 | ≥ 90 | 72 h7 | 69 | 70 g6 | 293 | 48 | 178 | 2.5 | 2.5 | 85 | 70 d9 | 22 | 10 | 8.5 | M20x50 |
| A 70 | ≥ 104 | 82 h7 | 79 | 80 g6 | 352.5 | 90 | 172.5 | 2.5 | 2.5 | 95 | 80 d9 | 22 | 10 | 8.5 | M20x50 |
| A 80 | ≥ 114 | 92 h7 | 89 | 90 g6 | 416 | 100 | 216 | 2.5 | 2.5 | 105 | 90 d9 | 26 | 22 | 20.5 | M24x70 |
| A 90 | ≥ 126 | 102 h7 | 99 | 100 g6 | 469 | 78 | 321 | 2.5 | 2.5 | 120 | 100 d9 | 26 | 22 | 20.5 | M24x70 |

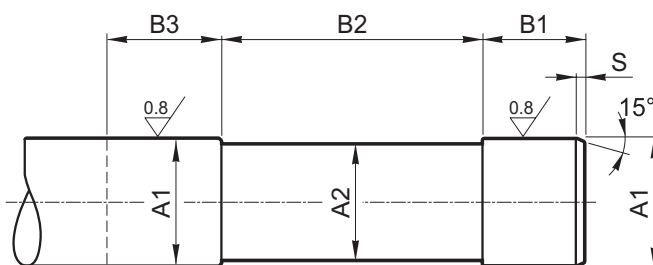
UV



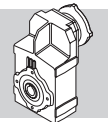
| |  DIN 5480 | Me | Dm | A | B | C | D | E |  ISO 4762 |
|-------------|--|----------------|------|------|-------|-------|---|----|--|
| A 20 | 30x1.25x30x22 | 33.04 +0/-0.04 | 2.75 | ≥ 40 | 111.5 | ≥ 95 | 7 | 45 | M10x35 |
| A 30 | 35x2x30x16 | 38.93 +0/-0.04 | 4 | ≥ 45 | 130.5 | ≥ 112 | 7 | 50 | M12x40 |
| A 35 | 35x2x30x16 | 38.93 +0/-0.04 | 4 | ≥ 45 | 147.5 | ≥ 129 | 7 | 50 | M12x40 |
| A 41 | 45x2x30x21 | 48.86 +0/-0.04 | 4 | ≥ 55 | 155.5 | ≥ 136 | 7 | 60 | M16x45 |
| A 50 | 50x2x30x24 | 54.14 +0/-0.05 | 4 | ≥ 60 | 196 | ≥ 175 | 7 | 65 | M16x45 |
| A 55 | 50x2x30x24 | 54.14 +0/-0.05 | 4 | ≥ 60 | 196 | ≥ 175 | 7 | 65 | M16x45 |
| A 60 | 65x2x30x31 | 68.97 +0/-0.05 | 4 | ≥ 75 | 213.5 | ≥ 191 | 7 | 80 | M20x55 |



QF



| | | A1 | A2 | B1 | B2 | B3 | S |
|------|------|-------|----|----|-------|------|-----|
| A 10 | QF25 | 25 h6 | 24 | 41 | 95 | ≥ 50 | 1.5 |
| | QF30 | 30 h6 | 29 | | | | |
| A 20 | QF25 | 25 h6 | 24 | 41 | 115 | ≥ 50 | 1.5 |
| | QF30 | 30 h6 | 29 | | | | |
| A 30 | QF35 | 35 h6 | 34 | 45 | 130 | ≥ 54 | 1.5 |
| | QF40 | 40 h6 | 39 | | | | |
| A 35 | QF35 | 35 h6 | 34 | 45 | 146.5 | ≥ 54 | 1.5 |
| | QF40 | 40 h6 | 39 | | | | |
| A 41 | QF40 | 40 h6 | 39 | 47 | 151.5 | ≥ 56 | 2 |
| | QF45 | 45 h6 | 44 | | | | |
| A 50 | QF50 | 50 h6 | 49 | 48 | 197 | ≥ 57 | 2 |
| | QF55 | 55 h6 | 54 | | | | |
| A 55 | QF55 | 55 h6 | 54 | 50 | 190 | ≥ 59 | 2 |
| | QF60 | 60 h6 | 59 | | | | |
| A 60 | QF60 | 60 h6 | 59 | 57 | 203 | ≥ 66 | 2.5 |
| | QF65 | 65 h6 | 64 | | | | |
| | QF70 | 70 h6 | 69 | | | | |



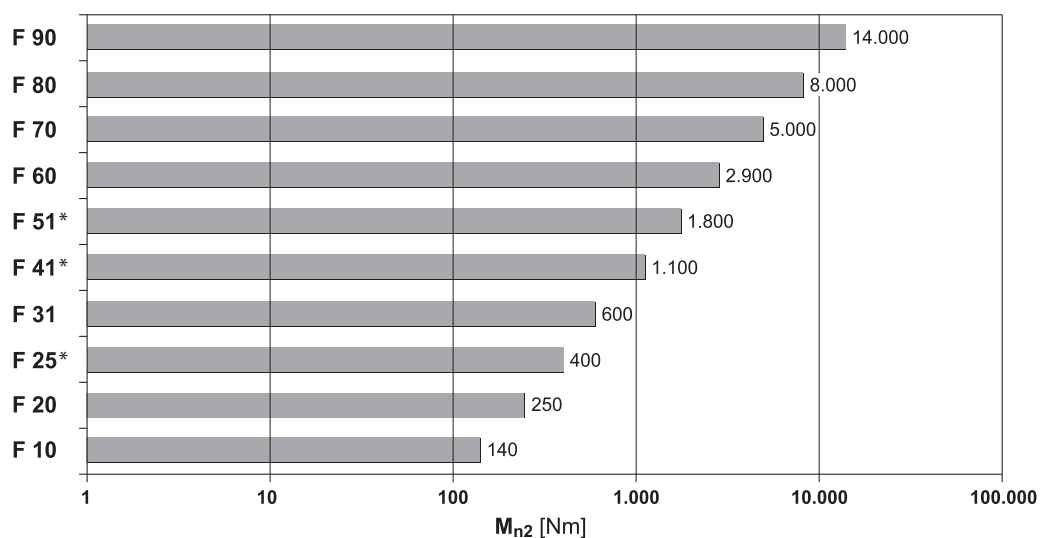
REDUCTEURS PENDULAIRES SERIE F

47 CARACTERISTIQUES DE CONSTRUCTION

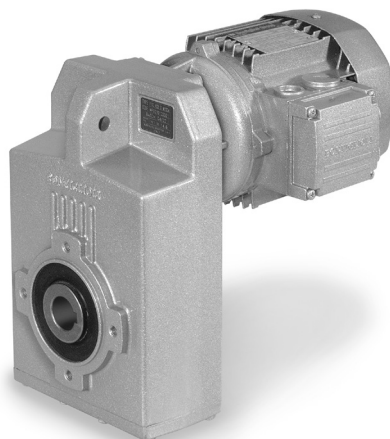
Les principales caractéristiques de construction sont :

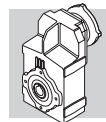
- modularité
- compacité
- montages universels
- rendements élevés
- faible niveau de bruit
- engrenages en acier allié cementés et trempés
- carters en aluminium non peints dans les tailles 10, 20 et 25, carters en fonte à haute résistance peints dans les autres tailles.

(D 43)

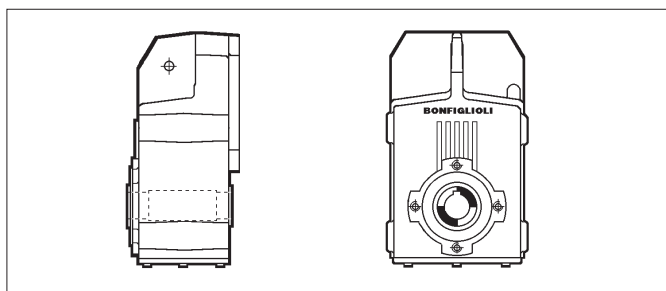


* Pour d'éventuelles limitations relatives à la forme de construction QF, voir le chapitre « FORMES DE CONSTRUCTION ».





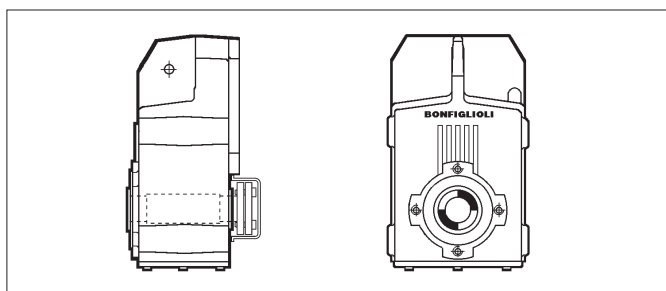
48 FORMES DE CONSTRUCTION



H

Arbre lent creux claveté

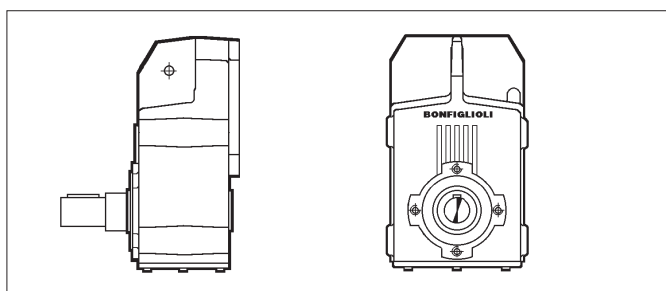
F 10 ... F 90



S

Arbre lent creux et frette de serrage

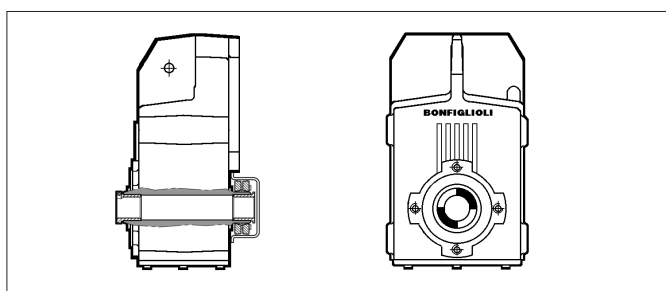
F 10 ... F 90



R

Arbre lent sortant

F 10 ... F 90



QF (Quick-fit)

Arbre creux avec douilles d'adaptation et frette de serrage

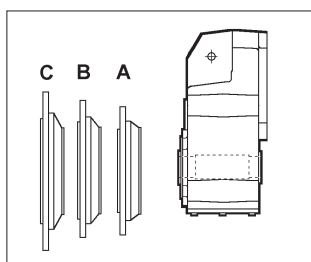
F 10 ... F 60

| M _{n2 max} [Nm] | |
|--------------------------|------|
| F 25 QF30 | 350 |
| F 41 QF42 | 850 |
| F 41 QF45 | 1000 |
| F 51 QF50 | 1750 |

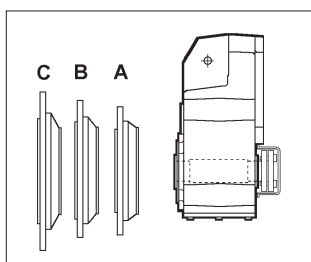
Formes de construction avec bride rapportée

Les schémas reportés définissent les brides applicables aux formes de construction standard.

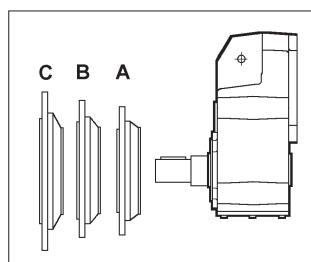
H... F...



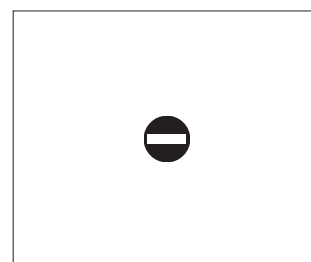
S F...

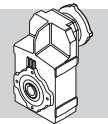


R F...



QF...





49 DESIGNATION

REDUCTEUR

F 10 2 H30 FA 48.7 S1 H5

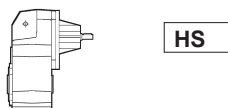
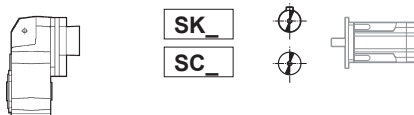
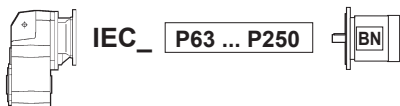
OPTIONS



POSITION DE MONTAGE
H1 (défaut), H2, H3, H4, H5, H6



DESIGNATION ENTREE

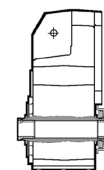
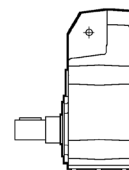
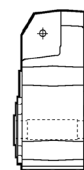
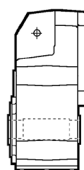


RAPPORT DE REDUCTION

TAILLE ET POSITION BRIDE EN SORTIE (spécifier si elle est demandée)

F = Version avec bride
A, B, C = Taille bride

FORME DE CONSTRUCTION



| | H | | | | | | | | | |
|-------------|------|------|------|------|------|------|------|------|------|------|
| | F 10 | F 20 | F 25 | F 31 | F 41 | F 51 | F 60 | F 70 | F 80 | F 90 |
| Standard | H25 | H30 | H35 | H35 | H40 | H50 | H60 | H80 | H90 | H100 |
| Alternative | H30 | H35 | H40 | H40 | H45 | H55 | H70 | H70 | H80 | H90 |

(F 10...F 90)

(F 10...F 90)

(F 10...F 60)

Diamètres alternatifs sur demande

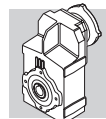
Nbre ETAGES DE REDUCTION

2 (F 10...F 51), 3 (F 20...F 90), 4 (F 31...F 90)

TAILLE REDUCTEUR

10, 20, 25, 31, 41, 51, 60, 70, 80, 90

TYPE: F = pendulaires



MOTEUR

FREIN

M 1LA 4 230/400-50 IP54 CLF W FD 7.5 R SB 220 SA

OPTIONS

328

ALIMENTATION
FREIN

521 526 531 534

TYPE REDRESSEUR
AC/DC
NB, SB, NBR, SBR

522 527

LEVIER DE DEBLOCAGE FREIN
R, RM

536

COUPLE FREIN

523 528 531 534

TYPE DE FREIN
FD, AFD (frein c.c.)
FA, BA (frein c.a.)

520 525 530 533

POSITION BOITE A BORNES
W (default), N, E, S

330

FORME DE CONSTRUCTION
— (moteur compact)
B5 (moteur IEC)CLASSE ISOLATION
CL F standard
CL H option

514

DEGRE DE PROTECTION
IP55 standard (IP54 - moteur frein)

509

TENSION - FREQUENCE

512

Nbre POLES

2, 4, 6, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8

TAILLE MOTEUR

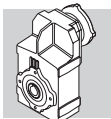
0B ... 5LA (moteur compact)

63A ... 280M (moteur IEC)

TYPE MOTEUR

M = 3phasé compact

BN = 3phasé IEC



49.1 Options réducteurs

AL, AR

Sur demande le réducteur peut être fourni avec un dispositif anti-retour. Ce dispositif permet la rotation de l'arbre lent seulement dans le sens souhaité.

Le tableau suivant indique les réducteurs dans lesquels on peut appliquer le dispositif anti-retour.

(D 44)

| | | | | | | |
|---------|-------------------------|--------|--------|--------|--------|--------|
| F 31 2* | F 41 2 ● (6.7; 10.8) | | | | | |
| F 31 3* | F 41 3 | F 51 3 | F 60 3 | F 70 3 | F 80 3 | F 90 3 |
| | | F 51 4 | F 60 4 | F 70 4 | F 80 4 | F 90 4 |

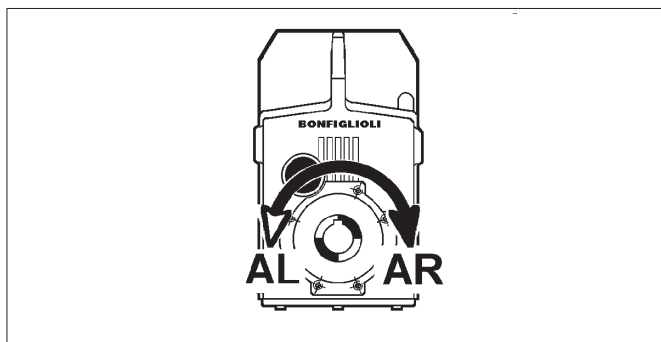
* La fourniture du dispositif antiretour empêche l'utilisation des adaptations pour servomoteur de type S 60A, S 60B, S 80A

A la commande on doit préciser le sens de rotation libre en indiquant les options AL ou AR (tab. D45) dans la désignation du réducteur ou du moteur.



REMARQUE : Lorsque le dispositif anti-retour intervient très souvent, vérifier que le couple de l'arbre de sortie, résultant de l'application de la charge, ne dépasse pas 70% du couple nominal M_{n2} du réducteur en question.

(D 45)



SO

Les réducteurs F 10...F 41, habituellement fournis avec lubrifiant par la société BONFIGLIOLI RIDUTTORI, sont demandés sans lubrifiant.

LO

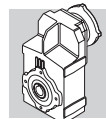
Les réducteurs F 51...F 90, habituellement dépourvus de lubrifiant, sont demandés avec huile synthétique du type couramment utilisé par BONFIGLIOLI RIDUTTORI et remplis conformément à la position de montage demandée.

DV

2 bagues d'étanchéité sur l'arbre rapide. (Disponible seulement sur motoréducteurs compacts).

VV

Bague d'étanchéité en élastomère fluoré sur l'arbre rapide.



PV

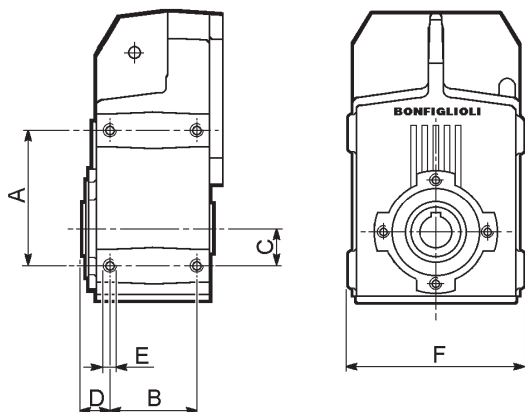
Toutes les bagues d'étanchéité en élastomère fluoré.

FL

Sur demande on peut recevoir le réducteur/motoréducteur F 10...F 41 avec ses faces latérales surfacées et taraudées pour en permettre l'assemblage.

Le tableau suivant comporte les dimensions des trous et les entraxes correspondants (ces usinages sont standard sur les réducteurs F 51...F 90).

(D 46)



| | A | B | C | D | E | F |
|-------------|-----|----|----|-------|--------|-----|
| F 10 | 115 | 60 | 35 | 21.25 | M8x16 | 163 |
| F 20 | 130 | 70 | 40 | 26.5 | M10x20 | 181 |
| F 25 | 130 | 70 | 40 | 27.5 | M10x20 | 181 |
| F 31 | 147 | 80 | 45 | 30 | M12x20 | 203 |
| F 41 | 190 | 95 | 60 | 32.5 | M12x22 | 235 |

PROTECTION DE SURFACE

Lorsque qu'aucune classe de protection n'est requise, les surfaces (ferreuses) des réducteurs fournissent une protection minimale de classe C2 (UNI EN ISO 12944-2). Afin d'améliorer la résistance à la corrosion atmosphérique, les réducteurs peuvent être fournis avec une protection de surface **C3** et **C4**, obtenue par recouvrement complet.

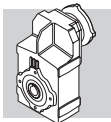
(D 47)

| PROTECTION DE SURFACE | Environnements typiques | Température maximum de surface | Classe de corrosivité en accord avec UNI EN ISO 12944-2 |
|-----------------------|--|--------------------------------|---|
| C3 | Environnement urbains et industriels avec jusqu'à 100% d'humidité relative (pollution de l'air moyenne) | 120°C | C3 |
| C4 | Zones industrielles, zones côtières, usines chimiques, avec jusqu'à 100% d'humidité relative (pollution de l'air élevée) | 120°C | C4 |

Les réducteurs avec une protection optionnelle en classes **C3** ou **C4** sont disponibles dans plusieurs teintes.

Si aucune teinte spécifique n'est requise (voir l'option "PEINTURE"), les réducteurs seront réalisés en RAL 7042.

Les réducteurs peuvent également être fournis avec une protection de surface pour une corrosivité en classe **C5** en accord avec UNI EN ISO 12944-2. Contacter notre Service Technique pour plus de détails.



PEINTURE

Les réducteurs avec une protection optionnelle en classe C3 ou C4 sont disponibles dans les teintes indiquées dans la table suivante.

(D 48)

| PEINTURE | Couleur | RAL numéro |
|-----------------|-----------------|------------|
| RAL7042* | Gris traffic A | 7042 |
| RAL5010 | Bleu gentiane | 5010 |
| RAL9005 | Noir foncé | 9005 |
| RAL9006 | Aluminium blanc | 9006 |
| RAL9010 | Blanc pur | 9010 |

* Les réducteurs sont fournis dans cette teinte standard si rien n'est spécifié.

NOTE – Les options “PEINTURE” peuvent seulement être spécifiées en accord avec les options “PROTECTION DE SURFACE”.

PREUVES DOCUMENTAIRES

AC - Certificat de conformité

Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

CC - Certificat de réception

La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des dimensions d'accouplement. En outre, des contrôles généraux de fonctionnement à vide et des vérifications de la fonctionnalité des joints d'étanchéité sont réalisés en modalité statique et en fonctionnement. La vérification s'applique à un échantillon statistique du lot d'expédition.

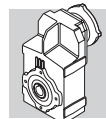
49.2 Accessoires

Voir le paragraphe 60 de ce catalogue.

49.3 Options moteurs

AA, AC, AD

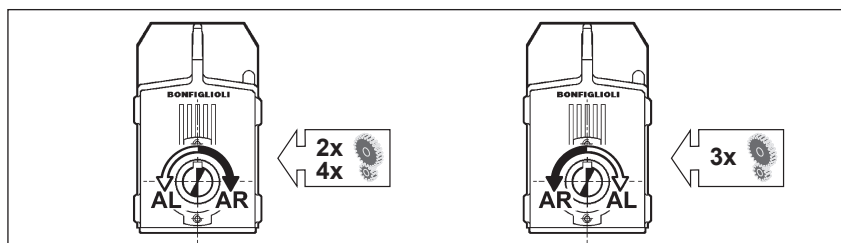
Position angulaire du levier de déblocage du frein par rapport à la position de la boîte à bornes en regardant du côté du ventilateur. Position standard = 90° sens horaire. AA = 0°, AC = 180°, AD = 90° sens anti-horaire.



AL, AR

Pour les motoréducteurs équipés d'un moteur compact de série M, l'option antidévireur située sur le moteur même et décrite dans la section moteurs électriques de ce catalogue est disponible. Le tableau suivant montre le sens de rotation libre du réducteur, sur la base duquel devra être effectué le choix de l'option.

(D 49)



CF

Filtre capacitif.

D3

3 sondes bimétalliques dans les enroulements à une température de 150 °C.

E3

3 thermistances dans les enroulements à une température de 150 °C.

F1

Volant pour démarrage progressif.

H1

Réchauffeurs anticondensation. Alimentation standard 1~ 230V ±10%.

PN

Puissance à 60 Hz correspondante à la puissance normalisée à 50 Hz.

PS

Double extrémité d'arbre (à l'exclusion de l'option RC et U1).

RC

Capot protection antipluie (option PS exclue).

RV

Equilibrage rotor avec degré de vibration B.

TC

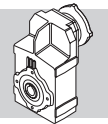
La variante du capot type TC est à spécifier lorsque le moteur est installé dans des sites de l'industrie textile. L'option exclue les variantes EN_ et n'est pas applicable aux moteurs avec frein type BA.

TP

Tropicalisation.

U1

Servo-ventilateur (options PS et CUS exclues).



U2

Servoventilateur sans boîte à bornes, doté de câbles précâblés à l'intérieur. Pas applicable avec les options PS et CUS. Disponible pour moteurs : BN 71 ... BN 132, M1 ... M4.

Pour de plus amples informations sur les options, consulter la section moteurs électriques.

50 LUBRIFICATION

Les organes internes des réducteurs Bonfiglioli sont lubrifiés avec un système mixte d'immersion et de barbotage de l'huile.

Les groupes F 10...F 41 sont normalement livrés avec charge de lubrifiant de l'usine, ou du réseau de vente officiel.

Les groupes de taille F 51 et supérieures sont normalement fournis sans lubrifiant, et le remplissage d'huile sera à la charge de l'utilisateur avant la mise en service.

Dans les deux cas, selon les versions, avant la mise en service du réducteur, il pourrait être nécessaire de remplacer le bouchon fermé utilisé pour le transport par le bouchon d'évent fourni.

Pour les tableaux de référence pour le placement des bouchons de service et la quantité de lubrifiant, se référer au Manuel d'Installation, Utilisation et Entretien (disponible sur www.bonfiglioli.com).

Le lubrifiant "long life", fourni de série est de nature synthétique et, à moins de contamination par l'extérieur, il ne demande pas des remplacements périodiques pour toute la durée de vie du réducteur.

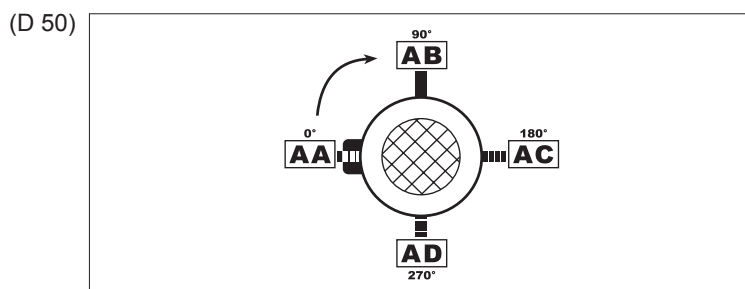
Le fonctionnement des réducteurs est admis pour des températures ambiantes comprises entre -20°C et $+40^{\circ}\text{C}$. Pour des températures ambiantes comprises entre -20°C et -10°C le démarrage du réducteur est admis seulement après un préchauffage progressif et homogène, ou avec un fonctionnement « à vide », sans charge appliquée. La charge pourra être ensuite appliquée à l'arbre du réducteur quand celui-ci aura atteint une température de -10°C , ou supérieure.

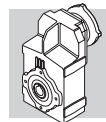
51 POSITIONS DE MONTAGE ET ORIENTATION BOITE A BORNES

Les orientations des boîtes à bornes des moteurs sont définies en regardant le moteur du côté ventilateur. L'orientation standard est indiquée en noir (W).

Position angulaire levier débloqué frein.

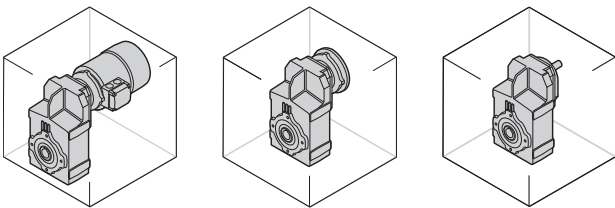
Dans les moteurs freins, ce levier (si requis) aura l'orientation standard de 90° par rapport à la boîte à bornes (position AB); spécifier avec options relatives si l'orientation désirée est différente.





F ...

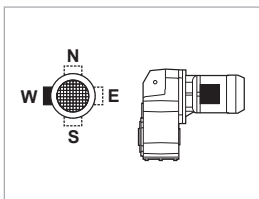
H1



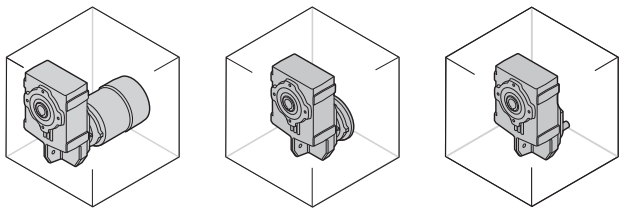
_S

_P(IEC) _SK / _SC

_HS



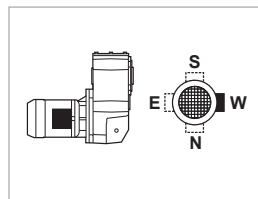
H2



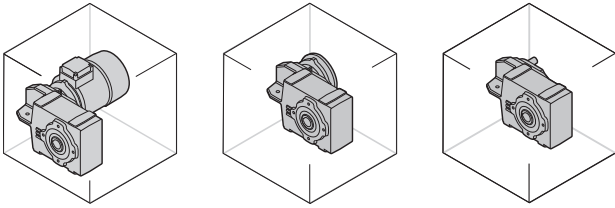
_S

_P(IEC) _SK / _SC

_HS



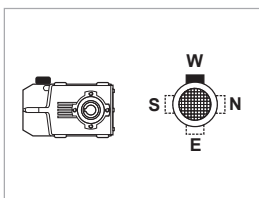
H3



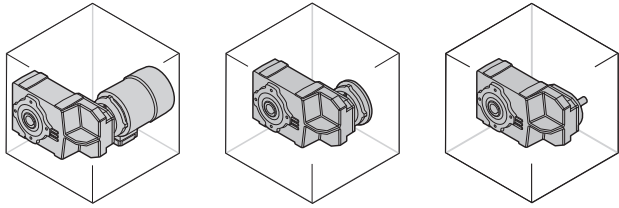
_S

_P(IEC) _SK / _SC

_HS



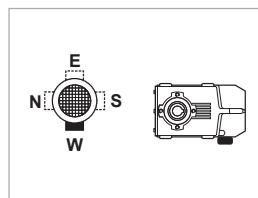
H4



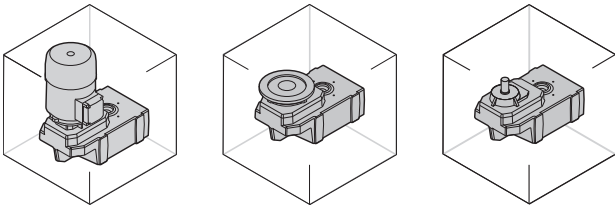
_S

_P(IEC) _SK / _SC

_HS



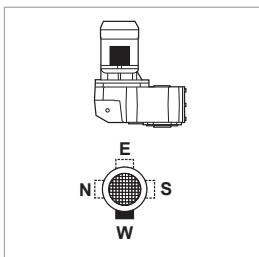
H5



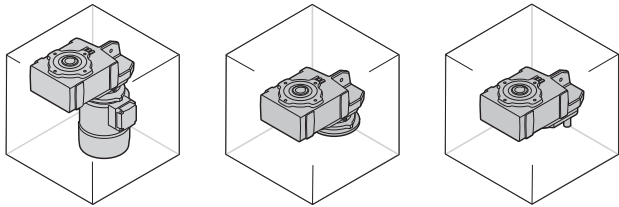
_S

_P(IEC) _SK / _SC

_HS



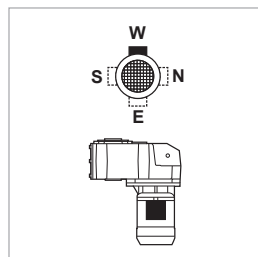
H6



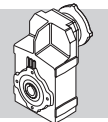
_S

_P(IEC) _SK / _SC

_HS



W = Default



52 CHARGES RADIALES

Les organes de transmission calés sur les arbres d'entrée et/ou de sortie du réducteur génèrent des forces dont la résultante agit sur l'arbre dans le sens radial.

L'entité de ces charges doit être compatible avec la capacité d'endurance du système arbre-roulements du réducteur. Plus particulièrement, la valeur absolue de la charge appliquée (R_{c1} pour l'arbre d'entrée, R_{c2} pour l'arbre de sortie) doit être inférieure à la valeur nominale (R_{n1} pour l'arbre d'entrée, R_{n2} pour l'arbre de sortie) indiquée dans les tableaux des données techniques.

Dans les formules qui suivent, l'indice (1) se réfère à des valeurs relatives à l'arbre rapide, l'indice (2) concerne l'arbre lent.

La charge générée par une transmission extérieure peut être calculée, avec une bonne approximation, au moyen de la formule suivante :

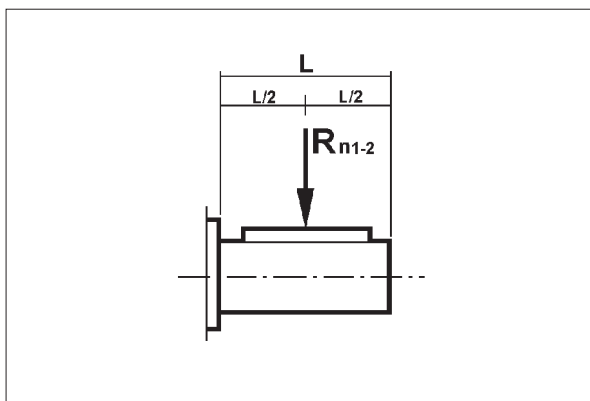
$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (35)$$

(D 51)

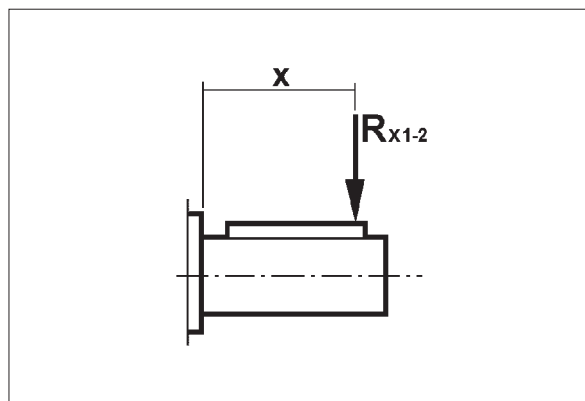
| | | | |
|------------|---|--------------|--------------------------------------|
| M_1 [Nm] | Couple appliqué à l'arbre rapide | $K_r = 1,25$ | Transmission à engrenage |
| M_2 [Nm] | Couple délivré par l'arbre lent | $K_r = 1,5$ | Transmission à courroie trapézoïdale |
| d [mm] | Diamètre primitif de l'organe monté sur l'arbre | $K_r = 2,0$ | Transmission à courroie plate |
| $K_r = 1$ | Transmission à chaîne | | |

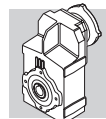
En fonction du point d'application de la charge sur l'arbre, la vérification de la compatibilité sera différente, plus particulièrement :

(D 52)



(D 53)





a) Application au milieu, tab. (D52)

La charge précédemment calculée doit être comparée avec la valeur nominale correspondante indiquée dans le catalogue, on doit vérifier :

$$R_{c1} \leq R_{n1} \text{ [arbre rapide]}$$

ou

$$R_{c2} \leq R_{n2} \text{ [arbre lent]}$$

b) Application déplacée du milieu, tab. (D53)

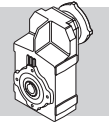
L'application de la charge à une distance "x" de la butée de l'arbre implique un nouveau calcul de la valeur admissible à cette distance.

La nouvelle valeur est indiquée par les symboles R_{x1} (entrée) et R_{x2} (sortie) ou peut être calculée d'après les valeurs de catalogue, respectivement R_{n1} et R_{n2} , en élaborant le facteur :

$$\frac{a}{b+x} \quad (36)$$

(D 54)

| | Constantes du réducteur | | | | | |
|------------------------|-------------------------|-------|------|--------------|------|------|
| | Arbre lent | | | Arbre rapide | | |
| | a | b | c | a | b | c |
| F 10 2 | 123 | 100.5 | 450 | 21 | 1 | 300 |
| F 20 2 | 145 | 115 | 600 | 40 | 20 | 350 |
| F 20 3 | 145 | 115 | 600 | 21 | 1 | 300 |
| F 25 2 - F 25 3 | 157.5 | 127.5 | 800 | 40 | 20 | 350 |
| F 25 4 | 157.5 | 127.5 | 800 | 21 | 1 | 300 |
| F 31 2 - F 31 3 | 165 | 135 | 850 | 38.5 | 18.5 | 350 |
| F 31 4 | 165 | 135 | 850 | 21 | 1 | 300 |
| F 41 2 - F 41 3 | 191.5 | 151.5 | 1000 | 49.5 | 24.5 | 450 |
| F 41 4 | 191.5 | 151.5 | 1000 | 40 | 20 | 350 |
| F 51 2 - F 51 3 | 233.5 | 183.5 | 1300 | 49.5 | 24.5 | 450 |
| F 51 4 | 233.5 | 183.5 | 1300 | 38.5 | 18.5 | 350 |
| F 60 3 | 258.5 | 198.5 | 1100 | 55.5 | 25.5 | 600 |
| F 60 4 | 258.5 | 198.5 | 1100 | 49.5 | 24.5 | 450 |
| F 70 3 | 342 | 277 | 1600 | 86 | 31 | 1000 |
| F 70 4 | 342 | 277 | 1600 | 49.5 | 24.5 | 450 |
| F 80 3 | 386.5 | 301.5 | 1800 | 86 | 31 | 1000 |
| F 80 4 | 386.5 | 301.5 | 1800 | 49.5 | 24.5 | 450 |
| F 90 3 | 458.5 | 353.5 | 2400 | 116 | 46 | 1400 |
| F 90 4 | 458.5 | 353.5 | 2400 | 49.5 | 24.5 | 450 |



La procédure de vérification comporte les pas successifs indiqués ici.

ARBRE RAPIDE

1. Calcul de :

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (37)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (38)$$

Ensuite, vérifier que :

$$R_{c1} \leq R_{x1} \quad (39)$$

ARBRE LENT

1. Calcul de :

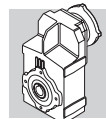
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (40)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (41)$$

Ensuite, vérifier que :

$$R_{c2} \leq R_{x2} \quad (42)$$



53 CHARGES AXIALES, A_{n1} , A_{n2}

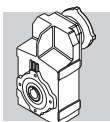
Les valeurs de charge axiale admissible sur les arbres rapides [A_{n1}] et lent [A_{n2}] peuvent être calculées, en se référant à la valeur de charge radiale correspondante [R_{n1}] et [R_{n2}] au moyen des formules suivantes.

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0,2 \\ A_{n2} &= R_{n2} \cdot 0,2 \end{aligned} \quad (43)$$

Les valeurs de charge axiale admissible ainsi calculées se réfèrent au cas de forces axiales agissant en même temps que les charges radiales nominales.



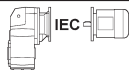

Dans le cas où la valeur de la charge radiale agissant sur l'arbre est nulle, l'on peut considérer la charge axiale admissible [A_n] égale à 50% de la valeur de la charge radiale admissible [R_n] sur le même arbre.

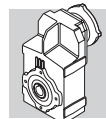
En présence de charges axiales excédant la valeur admissible, ou de forces axiales fortement supérieures aux charges radiales, il est conseillé de contacter le Service Technique Bonfiglioli Riduttori pour une vérification.





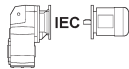

54 DONNEES TECHNIQUES MOTOREDUCTEURS

0.09 kW



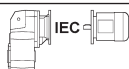

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 0.40 | 1945 | 2.6 | 2188 | 35000 | | | F704_2188 P63 BN63A6 | 445 |
| 0.50 | 1526 | 3.4 | 1717 | 35000 | | | F704_1717 P63 BN63A6 | 445 |
| 0.62 | 1254 | 0.9 | 1411 | 8500 | F414_1411 S05 M05A6 | 432 | F414_1411 P63 BN63A6 | 433 |
| 0.73 | 1079 | 1.0 | 1213 | 8500 | F414_1213 S05 M05A6 | 432 | F414_1213 P63 BN63A6 | 433 |
| 0.81 | 971 | 1.1 | 1092 | 8500 | F414_1092 S05 M05A6 | 432 | F414_1092 P63 BN63A6 | 433 |
| 0.90 | 874 | 1.3 | 982.4 | 8500 | F414_982.4 S05 M05A6 | 432 | F414_982.4 P63 BN63A6 | 433 |
| 0.98 | 801 | 1.4 | 900.5 | 8500 | F414_900.5 S05 M05A6 | 432 | F414_900.5 P63 BN63A6 | 433 |
| 1.1 | 724 | 1.5 | 813.8 | 8500 | F414_813.8 S05 M05A6 | 432 | F414_813.8 P63 BN63A6 | 433 |
| 1.2 | 678 | 0.9 | 762.3 | 6500 | F314_762.3 S05 M05A6 | 428 | F314_762.3 P63 BN63A6 | 429 |
| 1.2 | 658 | 1.7 | 739.4 | 8500 | F414_739.4 S05 M05A6 | 432 | F414_739.4 P63 BN63A6 | 433 |
| 1.3 | 610 | 1.0 | 685.6 | 6500 | F314_685.6 S05 M05A6 | 428 | F314_685.6 P63 BN63A6 | 429 |
| 1.3 | 614 | 1.8 | 690.1 | 8500 | F414_690.1 S05 M05A6 | 432 | F414_690.1 P63 BN63A6 | 433 |
| 1.4 | 551 | 1.1 | 619.9 | 6500 | F314_619.9 S05 M05A6 | 428 | F314_619.9 P63 BN63A6 | 429 |
| 1.5 | 515 | 1.2 | 578.6 | 6500 | F314_578.6 S05 M05A6 | 428 | F314_578.6 P63 BN63A6 | 429 |
| 1.6 | 489 | 2.2 | 549.8 | 8500 | F414_549.8 S05 M05A6 | 432 | F414_549.8 P63 BN63A6 | 433 |
| 1.7 | 469 | 0.9 | 527.3 | 6500 | F254_527.3 S05 M05A6 | 424 | F254_527.3 P63 BN63A6 | 425 |
| 1.7 | 469 | 1.3 | 527.8 | 6500 | F314_527.8 S05 M05A6 | 428 | F314_527.8 P63 BN63A6 | 429 |
| 1.9 | 414 | 1.0 | 466.0 | 6500 | F254_466.0 S05 M05A6 | 424 | F254_466.0 P63 BN63A6 | 425 |
| 1.9 | 411 | 1.5 | 462.6 | 6500 | F314_462.6 S05 M05A6 | 428 | F314_462.6 P63 BN63A6 | 429 |
| 2.0 | 387 | 1.0 | 434.9 | 6500 | F254_434.9 S05 M05A6 | 424 | F254_434.9 P63 BN63A6 | 425 |
| 2.0 | 386 | 2.9 | 433.7 | 8500 | F414_433.7 S05 M05A6 | 432 | F414_433.7 P63 BN63A6 | 433 |
| 2.1 | 372 | 1.6 | 418.9 | 6500 | F314_418.9 S05 M05A6 | 428 | F314_418.9 P63 BN63A6 | 429 |
| 2.2 | 350 | 1.1 | 393.9 | 6500 | F254_393.9 S05 M05A6 | 424 | F254_393.9 P63 BN63A6 | 425 |
| 2.4 | 340 | 1.8 | 374.4 | 6500 | | | F313_374.4 P63 BN63A6 | 429 |
| 2.6 | 302 | 2.0 | 332.8 | 6500 | | | F313_332.8 P63 BN63A6 | 429 |
| 2.6 | 313 | 3.5 | 344.8 | 8500 | | | F413_344.8 P63 BN63A6 | 433 |
| 2.8 | 288 | 0.9 | 316.9 | 4000 | F203_316.9 S05 M05A6 | 420 | F203_316.9 P63 BN63A6 | 421 |
| 3.0 | 267 | 2.2 | 293.8 | 6500 | | | F313_293.8 P63 BN63A6 | 429 |
| 3.1 | 259 | 1.0 | 285.2 | 4000 | F203_285.2 S05 M05A6 | 420 | F203_285.2 P63 BN63A6 | 421 |
| 3.4 | 232 | 1.1 | 255.3 | 4000 | F203_255.3 S05 M05A6 | 420 | F203_255.3 P63 BN63A6 | 421 |
| 3.5 | 230 | 2.6 | 253.6 | 6500 | | | F313_253.6 P63 BN63A6 | 429 |
| 3.9 | 207 | 2.9 | 228.2 | 6500 | | | F313_228.2 P63 BN63A6 | 429 |
| 4.2 | 190 | 1.3 | 209.3 | 4000 | F203_209.3 S05 M05A6 | 420 | F203_209.3 P63 BN63A6 | 421 |
| 4.4 | 184 | 3.3 | 202.3 | 6500 | | | F313_202.3 P63 BN63A6 | 429 |
| 4.8 | 168 | 1.5 | 184.9 | 4000 | F203_184.9 S05 M05A6 | 420 | F203_184.9 P63 BN63A6 | 421 |
| 5.1 | 157 | 1.6 | 172.6 | 4000 | F203_172.6 S05 M05A6 | 420 | F203_172.6 P63 BN63A6 | 421 |
| 5.6 | 142 | 1.8 | 156.3 | 4000 | F203_156.3 S05 M05A6 | 420 | F203_156.3 P63 BN63A6 | 421 |
| 6.7 | 123 | 2.0 | 132.2 | 4000 | F202_132.2 S05 M05A6 | 420 | F202_132.2 P63 BN63A6 | 421 |
| 6.9 | 118 | 1.2 | 127.1 | 2800 | F102_127.1 S05 M05A6 | 416 | F102_127.1 P63 BN63A6 | 417 |
| 7.7 | 106 | 2.4 | 114.3 | 4000 | F202_114.3 S05 M05A6 | 420 | F202_114.3 P63 BN63A6 | 421 |
| 8.3 | 98 | 1.4 | 106.0 | 2800 | F102_106.0 S05 M05A6 | 416 | F102_106.0 P63 BN63A6 | 417 |
| 8.7 | 94 | 2.6 | 101.6 | 4000 | F202_101.6 S05 M05A6 | 420 | F202_101.6 P63 BN63A6 | 421 |
| 9.6 | 85 | 1.6 | 91.5 | 2800 | F102_91.5 S05 M05A6 | 416 | F102_91.5 P63 BN63A6 | 417 |
| 9.7 | 84 | 3.0 | 90.4 | 4000 | F202_90.4 S05 M05A6 | 420 | F202_90.4 P63 BN63A6 | 421 |
| 10.8 | 75 | 1.9 | 81.3 | 2800 | F102_81.3 S05 M05A6 | 416 | F102_81.3 P63 BN63A6 | 417 |
| 11.5 | 71 | 3.5 | 76.8 | 4000 | F202_76.8 S05 M05A6 | 420 | F202_76.8 P63 BN63A6 | 421 |
| 12.4 | 66 | 2.1 | 71.1 | 2800 | F102_71.1 S05 M05A6 | 416 | F102_71.1 P63 BN63A6 | 417 |
| 14.0 | 58 | 2.4 | 63.0 | 2800 | F102_63.0 S05 M05A6 | 416 | F102_63.0 P63 BN63A6 | 417 |

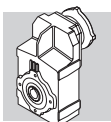


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

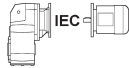

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 15.5 | 53 | 2.7 | 56.7 | 2800 | F102_56.7 S05 M05A6 | 416 | F102_56.7 P63 BN63A6 | 417 |
| 18.1 | 45 | 3.1 | 48.7 | 2800 | F102_48.7 S05 M05A6 | 416 | F102_48.7 P63 BN63A6 | 417 |
| 19.7 | 41 | 3.4 | 44.7 | 2800 | F102_44.7 S05 M05A6 | 416 | F102_44.7 P63 BN63A6 | 417 |
| 22.2 | 37 | 3.8 | 39.6 | 2800 | F102_39.6 S05 M05A6 | 416 | F102_39.6 P63 BN63A6 | 417 |
| 24.9 | 33 | 4.3 | 35.3 | 2800 | F102_35.3 S05 M05A6 | 416 | F102_35.3 P63 BN63A6 | 417 |
| 26.7 | 31 | 4.6 | 33.0 | 2800 | F102_33.0 S05 M05A6 | 416 | F102_33.0 P63 BN63A6 | 417 |
| 29.7 | 28 | 5.1 | 29.6 | 2800 | F102_29.6 S05 M05A6 | 416 | F102_29.6 P63 BN63A6 | 417 |
| 34 | 24 | 5.9 | 25.8 | 2800 | F102_25.8 S05 M05A6 | 416 | F102_25.8 P63 BN63A6 | 417 |
| 39 | 21 | 6.6 | 22.8 | 2800 | F102_22.8 S05 M05A6 | 416 | F102_22.8 P63 BN63A6 | 417 |
| 46 | 18 | 7.8 | 19.3 | 2800 | F102_19.3 S05 M05A6 | 416 | F102_19.3 P63 BN63A6 | 417 |
| 52 | 16 | 8.9 | 17.0 | 2800 | F102_17.0 S05 M05A6 | 416 | F102_17.0 P63 BN63A6 | 417 |
| 60 | 14 | 10.1 | 14.6 | 2700 | F102_14.6 S05 M05A6 | 416 | F102_14.6 P63 BN63A6 | 417 |
| 68 | 12 | 10.3 | 13.0 | 2600 | F102_13.0 S05 M05A6 | 416 | F102_13.0 P63 BN63A6 | 417 |
| 76 | 11 | 10.3 | 11.5 | 2500 | F102_11.5 S05 M05A6 | 416 | F102_11.5 P63 BN63A6 | 417 |
| 90 | 9 | 11.8 | 9.8 | 2370 | F102_9.8 S05 M05A6 | 416 | F102_9.8 P63 BN63A6 | 417 |
| 103 | 8 | 11.8 | 8.6 | 2270 | F102_8.6 S05 M05A6 | 416 | F102_8.6 P63 BN63A6 | 417 |
| 119 | 7 | 13.2 | 7.4 | 2160 | F102_7.4 S05 M05A6 | 416 | F102_7.4 P63 BN63A6 | 417 |

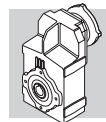
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| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 0.40 | 2623 | 1.9 | 2188 | 35000 | | | F704_2188 P63 BN63B6 | 445 |
| 0.51 | 2058 | 2.5 | 1717 | 35000 | | | F704_1717 P63 BN63B6 | 445 |
| 0.60 | 1742 | 2.9 | 2188 | 35000 | | | F704_2188 P63 BN63A4 | 445 |
| 0.65 | 1607 | 3.1 | 2019 | 35000 | | | F704_2019 P63 BN63A4 | 445 |
| 0.76 | 1368 | 2.1 | 1141 | 20000 | | | F604_1141 P63 BN63B6 | 441 |
| 0.89 | 1178 | 0.9 | 982.4 | 8500 | F414_982.4 S05 M05B6 | 432 | F414_982.4 P63 BN63B6 | 433 |
| 0.96 | 1090 | 1.0 | 1411 | 8500 | F414_1411 S05 M05A4 | 432 | F414_1411 P63 BN63A4 | 433 |
| 1.1 | 938 | 1.2 | 1213 | 8500 | F414_1213 S05 M05A4 | 432 | F414_1213 P63 BN63A4 | 433 |
| 1.2 | 844 | 1.3 | 1092 | 8500 | F414_1092 S05 M05A4 | 432 | F414_1092 P63 BN63A4 | 433 |
| 1.4 | 759 | 1.4 | 982.4 | 8500 | F414_982.4 S05 M05A4 | 432 | F414_982.4 P63 BN63A4 | 433 |
| 1.5 | 696 | 1.6 | 900.5 | 8500 | F414_900.5 S05 M05A4 | 432 | F414_900.5 P63 BN63A4 | 433 |
| 1.6 | 643 | 0.9 | 831.6 | 6500 | F314_831.6 S05 M05A4 | 428 | F314_831.6 P63 BN63A4 | 429 |
| 1.7 | 629 | 1.7 | 813.8 | 8500 | F414_813.8 S05 M05A4 | 432 | F414_813.8 P63 BN63A4 | 433 |
| 1.8 | 589 | 1.0 | 762.3 | 6500 | F314_762.3 S05 M05A4 | 428 | F314_762.3 P63 BN63A4 | 429 |
| 1.8 | 571 | 1.9 | 739.4 | 8500 | F414_739.4 S05 M05A4 | 432 | F414_739.4 P63 BN63A4 | 433 |
| 2.0 | 530 | 1.1 | 685.6 | 6500 | F314_685.6 S05 M05A4 | 428 | F314_685.6 P63 BN63A4 | 429 |
| 2.0 | 533 | 2.1 | 690.1 | 8500 | F414_690.1 S05 M05A4 | 432 | F414_690.1 P63 BN63A4 | 433 |
| 2.2 | 479 | 1.3 | 619.9 | 6500 | F314_619.9 S05 M05A4 | 428 | F314_619.9 P63 BN63A4 | 429 |
| 2.3 | 456 | 0.9 | 589.7 | 6500 | F254_589.7 S05 M05A4 | 424 | F254_589.7 P63 BN63A4 | 425 |
| 2.3 | 447 | 1.3 | 578.6 | 6500 | F314_578.6 S05 M05A4 | 428 | F314_578.6 P63 BN63A4 | 429 |
| 2.5 | 425 | 2.6 | 549.8 | 8500 | F414_549.8 S05 M05A4 | 432 | F414_549.8 P63 BN63A4 | 433 |
| 2.6 | 408 | 1.0 | 527.3 | 6500 | F254_527.3 S05 M05A4 | 424 | F254_527.3 P63 BN63A4 | 425 |
| 2.6 | 408 | 1.5 | 527.8 | 6500 | F314_527.8 S05 M05A4 | 428 | F314_527.8 P63 BN63A4 | 429 |
| 2.9 | 360 | 1.1 | 466.0 | 6500 | F254_466.0 S05 M05A4 | 424 | F254_466.0 P63 BN63A4 | 425 |
| 2.9 | 358 | 1.7 | 462.6 | 6500 | F314_462.6 S05 M05A4 | 428 | F314_462.6 P63 BN63A4 | 429 |
| 3.1 | 336 | 1.2 | 434.9 | 6500 | F254_434.9 S05 M05A4 | 424 | F254_434.9 P63 BN63A4 | 425 |
| 3.1 | 335 | 3.3 | 433.7 | 8500 | F414_433.7 S05 M05A4 | 432 | F414_433.7 P63 BN63A4 | 433 |



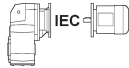



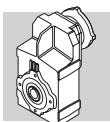
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| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|------|-------|----------------------|---|--|---|---|
| 3.2 | 324 | 1.9 | 418.9 | 6500 | F314_418.9 S05 M05A4 | 428 | F314_418.9 P63 BN63A4 | 429 |
| 3.4 | 304 | 1.3 | 393.9 | 6500 | F254_393.9 S05 M05A4 | 424 | F254_393.9 P63 BN63A4 | 425 |
| 3.6 | 296 | 2.0 | 374.4 | 6500 | | | F313_374.4 P63 BN63A4 | 429 |
| 4.1 | 263 | 1.5 | 333.1 | 6500 | F253_333.1 S05 M05A4 | 424 | F253_333.1 P63 BN63A4 | 425 |
| 4.1 | 263 | 2.3 | 332.8 | 6500 | | | F313_332.8 P63 BN63A4 | 429 |
| 4.3 | 250 | 1.0 | 316.9 | 4000 | F203_316.9 S05 M05A4 | 420 | F203_316.9 P63 BN63A4 | 421 |
| 4.6 | 232 | 2.6 | 293.8 | 6500 | | | F313_293.8 P63 BN63A4 | 429 |
| 4.7 | 225 | 1.1 | 285.2 | 4000 | F203_285.2 S05 M05A4 | 420 | F203_285.2 P63 BN63A4 | 421 |
| 4.7 | 228 | 1.8 | 288.1 | 6500 | F253_288.1 S05 M05A4 | 424 | F253_288.1 P63 BN63A4 | 425 |
| 5.3 | 202 | 1.2 | 255.3 | 4000 | F203_255.3 S05 M05A4 | 420 | F203_255.3 P63 BN63A4 | 421 |
| 5.3 | 202 | 2.0 | 256.1 | 6500 | F253_256.1 S05 M05A4 | 424 | F253_256.1 P63 BN63A4 | 425 |
| 5.3 | 200 | 3.0 | 253.6 | 6500 | | | F313_253.6 P63 BN63A4 | 429 |
| 5.9 | 180 | 2.2 | 227.8 | 6500 | F253_227.8 S05 M05A4 | 424 | F253_227.8 P63 BN63A4 | 425 |
| 5.9 | 180 | 3.3 | 228.2 | 6500 | | | F313_228.2 P63 BN63A4 | 429 |
| 6.5 | 165 | 1.5 | 209.3 | 4000 | F203_209.3 S05 M05A4 | 420 | F203_209.3 P63 BN63A4 | 421 |
| 7.0 | 153 | 2.6 | 193.6 | 6500 | F253_193.6 S05 M05A4 | 424 | F253_193.6 P63 BN63A4 | 425 |
| 7.3 | 146 | 1.7 | 184.9 | 4000 | F203_184.9 S05 M05A4 | 420 | F203_184.9 P63 BN63A4 | 421 |
| 7.7 | 138 | 2.9 | 174.2 | 6500 | F253_174.2 S05 M05A4 | 424 | F253_174.2 P63 BN63A4 | 425 |
| 7.8 | 136 | 1.8 | 172.6 | 4000 | F203_172.6 S05 M05A4 | 420 | F203_172.6 P63 BN63A4 | 421 |
| 8.6 | 123 | 2.0 | 156.3 | 4000 | F203_156.3 S05 M05A4 | 420 | F203_156.3 P63 BN63A4 | 421 |
| 8.7 | 123 | 3.2 | 155.9 | 6500 | F253_155.9 S05 M05A4 | 424 | F253_155.9 P63 BN63A4 | 425 |
| 9.4 | 113 | 3.5 | 143.0 | 6500 | F253_143.0 S05 M05A4 | 424 | F253_143.0 P63 BN63A4 | 425 |
| 10.2 | 107 | 2.3 | 132.2 | 4000 | F202_132.2 S05 M05A4 | 420 | F202_132.2 P63 BN63A4 | 421 |
| 10.6 | 103 | 1.4 | 127.1 | 2800 | F102_127.1 S05 M05A4 | 416 | F102_127.1 P63 BN63A4 | 417 |
| 11.8 | 92 | 2.7 | 114.3 | 4000 | F202_114.3 S05 M05A4 | 420 | F202_114.3 P63 BN63A4 | 421 |
| 12.7 | 86 | 1.6 | 106.0 | 2800 | F102_106.0 S05 M05A4 | 416 | F102_106.0 P63 BN63A4 | 417 |
| 13.3 | 82 | 3.0 | 101.6 | 4000 | F202_101.6 S05 M05A4 | 420 | F202_101.6 P63 BN63A4 | 421 |
| 14.8 | 74 | 1.9 | 91.5 | 2800 | F102_91.5 S05 M05A4 | 416 | F102_91.5 P63 BN63A4 | 417 |
| 14.9 | 73 | 3.4 | 90.4 | 4000 | F202_90.4 S05 M05A4 | 420 | F202_90.4 P63 BN63A4 | 421 |
| 16.6 | 66 | 2.1 | 81.3 | 2800 | F102_81.3 S05 M05A4 | 416 | F102_81.3 P63 BN63A4 | 417 |
| 19.0 | 57 | 2.4 | 71.1 | 2800 | F102_71.1 S05 M05A4 | 416 | F102_71.1 P63 BN63A4 | 417 |
| 21.4 | 51 | 2.8 | 63.0 | 2800 | F102_63.0 S05 M05A4 | 416 | F102_63.0 P63 BN63A4 | 417 |
| 23.8 | 46 | 3.1 | 56.7 | 2800 | F102_56.7 S05 M05A4 | 416 | F102_56.7 P63 BN63A4 | 417 |
| 27.7 | 39 | 3.6 | 48.7 | 2800 | F102_48.7 S05 M05A4 | 416 | F102_48.7 P63 BN63A4 | 417 |
| 30 | 36 | 3.9 | 44.7 | 2800 | F102_44.7 S05 M05A4 | 416 | F102_44.7 P63 BN63A4 | 417 |
| 34 | 32 | 4.4 | 39.6 | 2800 | F102_39.6 S05 M05A4 | 416 | F102_39.6 P63 BN63A4 | 417 |
| 38 | 29 | 4.9 | 35.3 | 2800 | F102_35.3 S05 M05A4 | 416 | F102_35.3 P63 BN63A4 | 417 |
| 41 | 27 | 5.3 | 33 | 2800 | F102_33.0 S05 M05A4 | 416 | F102_33.0 P63 BN63A4 | 417 |
| 46 | 24 | 5.9 | 29.6 | 2800 | F102_29.6 S05 M05A4 | 416 | F102_29.6 P63 BN63A4 | 417 |
| 52 | 21 | 6.7 | 25.8 | 2800 | F102_25.8 S05 M05A4 | 416 | F102_25.8 P63 BN63A4 | 417 |
| 59 | 18 | 7.6 | 22.8 | 2700 | F102_22.8 S05 M05A4 | 416 | F102_22.8 P63 BN63A4 | 417 |
| 70 | 16 | 8.7 | 19.3 | 2560 | F102_19.3 S05 M05A4 | 416 | F102_19.3 P63 BN63A4 | 417 |
| 80 | 14 | 9.3 | 17.0 | 2450 | F102_17.0 S05 M05A4 | 416 | F102_17.0 P63 BN63A4 | 417 |
| 92 | 12 | 10.1 | 14.6 | 2340 | F102_14.6 S05 M05A4 | 416 | F102_14.6 P63 BN63A4 | 417 |
| 104 | 11 | 9.9 | 13.0 | 2250 | F102_13.0 S05 M05A4 | 416 | F102_13.0 P63 BN63A4 | 417 |
| 117 | 9 | 10.3 | 11.5 | 2160 | F102_11.5 S05 M05A4 | 416 | F102_11.5 P63 BN63A4 | 417 |
| 138 | 8 | 11.3 | 9.8 | 2050 | F102_9.8 S05 M05A4 | 416 | F102_9.8 P63 BN63A4 | 417 |
| 157 | 7 | 11.8 | 8.6 | 1970 | F102_8.6 S05 M05A4 | 416 | F102_8.6 P63 BN63A4 | 417 |
| 182 | 6 | 12.7 | 7.4 | 1870 | F102_7.4 S05 M05A4 | 416 | F102_7.4 P63 BN63A4 | 417 |



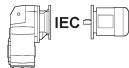



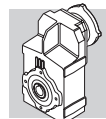
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| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 0.41 | 3804 | 1.3 | 2188 | 35000 | F704_2188 S1 M1SC6 | 444 | F704_2188 P71 BN71A6 | 445 |
| 0.45 | 3511 | 1.4 | 2019 | 35000 | F704_2019 S1 M1SC6 | 444 | F704_2019 P71 BN71A6 | 445 |
| 0.45 | 3455 | 2.3 | 1987 | 45000 | F804_1987 S1 M1SC6 | 447 | F804_1987 P71 BN71A6 | 448 |
| 0.49 | 3189 | 2.5 | 1834 | 45000 | F804_1834 S1 M1SC6 | 447 | F804_1834 P71 BN71A6 | 448 |
| 0.52 | 2985 | 1.7 | 1717 | 35000 | F704_1717 S1 M1SC6 | 444 | F704_1717 P71 BN71A6 | 445 |
| 0.53 | 2972 | 2.7 | 1709 | 45000 | F804_1709 S1 M1SC6 | 447 | F804_1709 P71 BN71A6 | 448 |
| 0.57 | 2756 | 1.8 | 1585 | 35000 | F704_1585 S1 M1SC6 | 444 | F704_1585 P71 BN71A6 | 445 |
| 0.57 | 2744 | 2.9 | 1578 | 45000 | F804_1578 S1 M1SC6 | 447 | F804_1578 P71 BN71A6 | 448 |
| 0.61 | 2576 | 1.9 | 1481 | 35000 | F704_1481 S1 M1SC6 | 444 | F704_1481 P71 BN71A6 | 445 |
| 0.65 | 2406 | 3.3 | 1384 | 45000 | F804_1384 S1 M1SC6 | 447 | F804_1384 P71 BN71A6 | 448 |
| 0.66 | 2378 | 2.1 | 1368 | 35000 | F704_1368 S1 M1SC6 | 444 | F704_1368 P71 BN71A6 | 445 |
| 0.76 | 2055 | 2.4 | 1182 | 35000 | F704_1182 S1 M1SC6 | 444 | F704_1182 P71 BN71A6 | 445 |
| 0.77 | 2030 | 0.9 | 1168 | 12000 | F514_1168 S1 M1SC6 | 436 | F514_1168 P71 BN71A6 | 437 |
| 0.79 | 1985 | 1.5 | 1141 | 20000 | F604_1141 S1 M1SC6 | 440 | F604_1141 P71 BN71A6 | 441 |
| 0.83 | 1897 | 2.6 | 1091 | 35000 | F704_1091 S1 M1SC6 | 444 | F704_1091 P71 BN71A6 | 445 |
| 0.84 | 1861 | 1.0 | 1070 | 12000 | F514_1070 S1 M1SC6 | 436 | F514_1070 P71 BN71A6 | 437 |
| 0.85 | 1832 | 1.6 | 1054 | 20000 | F604_1054 S1 M1SC6 | 440 | F604_1054 P71 BN71A6 | 441 |
| 0.92 | 1703 | 1.1 | 979.4 | 12000 | F514_979.4 S1 M1SC6 | 436 | F514_979.4 P71 BN71A6 | 437 |
| 0.92 | 1694 | 3.0 | 974.4 | 35000 | F704_974.4 S1 M1SC6 | 444 | F704_974.4 P71 BN71A6 | 445 |
| 0.94 | 1667 | 1.7 | 958.9 | 20000 | F604_958.9 S1 M1SC6 | 440 | F604_958.9 P71 BN71A6 | 441 |
| 1.0 | 1540 | 1.2 | 885.5 | 12000 | F514_885.5 S1 M1SC6 | 436 | F514_885.5 P71 BN71A6 | 437 |
| 1.0 | 1539 | 1.9 | 885.1 | 20000 | F604_885.1 S1 M1SC6 | 440 | F604_885.1 P71 BN71A6 | 441 |
| 1.0 | 1564 | 3.2 | 899.4 | 35000 | F704_899.4 S1 M1SC6 | 444 | F704_899.4 P71 BN71A6 | 445 |
| 1.1 | 1437 | 1.3 | 826.4 | 12000 | F514_826.4 S1 M1SC6 | 436 | F514_826.4 P71 BN71A6 | 437 |
| 1.1 | 1430 | 3.5 | 822.2 | 35000 | F704_822.2 S1 M1SC6 | 444 | F704_822.2 P71 BN71A6 | 445 |
| 1.2 | 1286 | 0.9 | 739.4 | 8500 | F414_739.4 S1 M1SC6 | 432 | F414_739.4 P71 BN71A6 | 433 |
| 1.2 | 1286 | 0.9 | 739.4 | 8500 | F414_739.4 S1 M1SC6 | 432 | F414_739.4 P71 BN71A6 | 433 |
| 1.3 | 1200 | 0.9 | 690.1 | 8500 | F414_690.1 S1 M1SC6 | 432 | F414_690.1 P71 BN71A6 | 433 |
| 1.3 | 1200 | 0.9 | 690.1 | 8500 | F414_690.1 S1 M1SC6 | 432 | F414_690.1 P71 BN71A6 | 433 |
| 1.3 | 1165 | 0.9 | 982.4 | 8500 | F414_982.4 S05 M05B4 | 432 | F414_982.4 P63 BN63B4 | 433 |
| 1.5 | 1068 | 1.0 | 900.5 | 8500 | F414_900.5 S05 M05B4 | 432 | F414_900.5 P63 BN63B4 | 433 |
| 1.6 | 965 | 1.1 | 813.8 | 8500 | F414_813.8 S05 M05B4 | 432 | F414_813.8 P63 BN63B4 | 433 |
| 1.8 | 877 | 1.3 | 739.4 | 8500 | F414_739.4 S05 M05B4 | 432 | F414_739.4 P63 BN63B4 | 433 |
| 1.9 | 818 | 1.3 | 690.1 | 8500 | F414_690.1 S05 M05B4 | 432 | F414_690.1 P63 BN63B4 | 433 |
| 2.3 | 686 | 0.9 | 578.6 | 6500 | F314_578.6 S05 M05B4 | 428 | F314_578.6 P63 BN63B4 | 429 |
| 2.4 | 652 | 1.7 | 549.8 | 8500 | F414_549.8 S05 M05B4 | 432 | F414_549.8 P63 BN63B4 | 433 |
| 2.5 | 626 | 1.0 | 527.8 | 6500 | F314_527.8 S05 M05B4 | 428 | F314_527.8 P63 BN63B4 | 429 |
| 2.9 | 549 | 1.1 | 462.6 | 6500 | F314_462.6 S05 M05B4 | 428 | F314_462.6 P63 BN63B4 | 429 |
| 3.0 | 514 | 2.1 | 433.7 | 8500 | F414_433.7 S05 M05B4 | 432 | F414_433.7 P63 BN63B4 | 433 |
| 3.2 | 497 | 1.2 | 418.9 | 6500 | F314_418.9 S05 M05B4 | 428 | F314_418.9 P63 BN63B4 | 429 |
| 3.4 | 467 | 0.9 | 393.9 | 6500 | F254_393.9 S05 M05B4 | 424 | F254_393.9 P63 BN63B4 | 425 |
| 3.5 | 454 | 1.3 | 374.4 | 6500 | | | F313_374.4 P63 BN63B4 | 429 |
| 3.8 | 418 | 2.6 | 344.8 | 8500 | | | F413_344.8 P63 BN63B4 | 433 |
| 4.0 | 404 | 1.0 | 333.1 | 6500 | F253_333.1 S05 M05B4 | 424 | F253_333.1 P63 BN63B4 | 425 |
| 4.0 | 403 | 1.5 | 332.8 | 6500 | | | F313_332.8 P63 BN63B4 | 429 |
| 4.5 | 356 | 1.7 | 293.8 | 6500 | | | F313_293.8 P63 BN63B4 | 429 |
| 4.5 | 359 | 3.1 | 296.6 | 8500 | | | F413_296.6 P63 BN63B4 | 433 |
| 4.6 | 349 | 1.1 | 288.1 | 6500 | F253_288.1 S05 M05B4 | 424 | F253_288.1 P63 BN63B4 | 425 |
| 4.9 | 323 | 3.4 | 266.9 | 8500 | | | F413_266.9 P63 BN63B4 | 433 |
| 5.2 | 310 | 1.3 | 256.1 | 6500 | F253_256.1 S05 M05B4 | 424 | F253_256.1 P63 BN63B4 | 425 |
| 5.2 | 307 | 2.0 | 253.6 | 6500 | | | F313_253.6 P63 BN63B4 | 429 |







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



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|------|-------|----------------------|---|--|---|---|
| 5.8 | 276 | 1.4 | 227.8 | 6500 | F253_227.8 S05 M05B4 | 424 | F253_227.8 P63 BN63B4 | 425 |
| 5.8 | 277 | 2.2 | 228.2 | 6500 | | | F313_228.2 P63 BN63B4 | 429 |
| 6.3 | 254 | 1.0 | 209.3 | 4000 | F203_209.3 S05 M05B4 | 420 | F203_209.3 P63 BN63B4 | 421 |
| 6.5 | 245 | 2.4 | 202.3 | 6500 | | | F313_202.3 P63 BN63B4 | 429 |
| 6.8 | 235 | 1.7 | 193.6 | 6500 | F253_193.6 S05 M05B4 | 424 | F253_193.6 P63 BN63B4 | 425 |
| 7.1 | 224 | 1.1 | 184.9 | 4000 | F203_184.9 S05 M05B4 | 420 | F203_184.9 P63 BN63B4 | 421 |
| 7.1 | 225 | 2.7 | 185.4 | 6500 | | | F313_185.4 P63 BN63B4 | 429 |
| 7.6 | 209 | 1.2 | 172.6 | 4000 | F203_172.6 S05 M05B4 | 420 | F203_172.6 P63 BN63B4 | 421 |
| 7.6 | 211 | 1.9 | 174.2 | 6500 | F253_174.2 S05 M05B4 | 424 | F253_174.2 P63 BN63B4 | 425 |
| 7.9 | 202 | 3.0 | 166.8 | 6500 | | | F313_166.8 P63 BN63B4 | 429 |
| 8.4 | 189 | 1.3 | 156.3 | 4000 | F203_156.3 S05 M05B4 | 420 | F203_156.3 P63 BN63B4 | 421 |
| 8.5 | 189 | 2.1 | 155.9 | 6500 | F253_155.9 S05 M05B4 | 424 | F253_155.9 P63 BN63B4 | 425 |
| 8.8 | 183 | 3.3 | 150.8 | 6500 | | | F313_150.8 P63 BN63B4 | 429 |
| 9.2 | 173 | 2.3 | 143.0 | 6500 | F253_143.0 S05 M05B4 | 424 | F253_143.0 P63 BN63B4 | 425 |
| 9.4 | 171 | 3.5 | 140.7 | 6500 | | | F313_140.7 P63 BN63B4 | 429 |
| 10.0 | 164 | 1.5 | 132.2 | 4000 | F202_132.2 S05 M05B4 | 420 | F202_132.2 P63 BN63B4 | 421 |
| 10.3 | 155 | 2.6 | 127.8 | 6500 | F253_127.8 S05 M05B4 | 424 | F253_127.8 P63 BN63B4 | 425 |
| 10.4 | 157 | 0.9 | 127.1 | 2800 | F102_127.1 S05 M05B4 | 416 | F102_127.1 P63 BN63B4 | 417 |
| 11.5 | 142 | 1.8 | 114.3 | 4000 | F202_114.3 S05 M05B4 | 420 | F202_114.3 P63 BN63B4 | 421 |
| 11.7 | 137 | 2.9 | 113.0 | 6500 | F253_113.0 S05 M05B4 | 424 | F253_113.0 P63 BN63B4 | 425 |
| 12.5 | 131 | 1.1 | 106.0 | 2800 | F102_106.0 S05 M05B4 | 416 | F102_106.0 P63 BN63B4 | 417 |
| 12.5 | 128 | 3.1 | 105.4 | 6500 | F253_105.4 S05 M05B4 | 424 | F253_105.4 P63 BN63B4 | 425 |
| 13.0 | 126 | 2.0 | 101.6 | 4000 | F202_101.6 S05 M05B4 | 420 | F202_101.6 P63 BN63B4 | 421 |
| 13.8 | 116 | 3.5 | 95.5 | 6500 | F253_95.5 S05 M05B4 | 424 | F253_95.5 P63 BN63B4 | 425 |
| 14.4 | 113 | 1.2 | 91.5 | 2800 | F102_91.5 S05 M05B4 | 416 | F102_91.5 P63 BN63B4 | 417 |
| 14.6 | 112 | 2.2 | 90.4 | 4000 | F202_90.4 S05 M05B4 | 420 | F202_90.4 P63 BN63B4 | 421 |
| 16.2 | 101 | 1.4 | 81.3 | 2800 | F102_81.3 S05 M05B4 | 416 | F102_81.3 P63 BN63B4 | 417 |
| 17.2 | 95 | 2.6 | 76.8 | 4000 | F202_76.8 S05 M05B4 | 420 | F202_76.8 P63 BN63B4 | 421 |
| 18.6 | 88 | 1.6 | 71.1 | 2800 | F102_71.1 S05 M05B4 | 416 | F102_71.1 P63 BN63B4 | 417 |
| 19.1 | 86 | 2.9 | 69.1 | 4000 | F202_69.1 S05 M05B4 | 420 | F202_69.1 P63 BN63B4 | 421 |
| 21.0 | 78 | 1.8 | 63.0 | 2800 | F102_63.0 S05 M05B4 | 416 | F102_63.0 P63 BN63B4 | 417 |
| 21.3 | 77 | 3.3 | 61.9 | 4000 | F202_61.9 S05 M05B4 | 420 | F202_61.9 P63 BN63B4 | 421 |
| 23.3 | 70 | 2.0 | 56.7 | 2800 | F102_56.7 S05 M05B4 | 416 | F102_56.7 P63 BN63B4 | 417 |
| 27.1 | 60 | 2.3 | 48.7 | 2800 | F102_48.7 S05 M05B4 | 416 | F102_48.7 P63 BN63B4 | 417 |
| 29.6 | 55 | 2.5 | 44.7 | 2800 | F102_44.7 S05 M05B4 | 416 | F102_44.7 P63 BN63B4 | 417 |
| 33 | 49 | 2.9 | 39.6 | 2800 | F102_39.6 S05 M05B4 | 416 | F102_39.6 P63 BN63B4 | 417 |
| 37 | 44 | 3.2 | 35.3 | 2800 | F102_35.3 S05 M05B4 | 416 | F102_35.3 P63 BN63B4 | 417 |
| 40 | 41 | 3.4 | 33.0 | 2800 | F102_33.0 S05 M05B4 | 416 | F102_33.0 P63 BN63B4 | 417 |
| 45 | 37 | 3.8 | 29.6 | 2800 | F102_29.6 S05 M05B4 | 416 | F102_29.6 P63 BN63B4 | 417 |
| 51 | 32 | 4.4 | 25.8 | 2780 | F102_25.8 S05 M05B4 | 416 | F102_25.8 P63 BN63B4 | 417 |
| 58 | 28 | 5.0 | 22.8 | 2680 | F102_22.8 S05 M05B4 | 416 | F102_22.8 P63 BN63B4 | 417 |
| 68 | 24 | 5.7 | 19.3 | 2540 | F102_19.3 S05 M05B4 | 416 | F102_19.3 P63 BN63B4 | 417 |
| 78 | 21 | 6.1 | 17.0 | 2440 | F102_17.0 S05 M05B4 | 416 | F102_17.0 P63 BN63B4 | 417 |
| 90 | 18 | 6.6 | 14.6 | 2330 | F102_14.6 S05 M05B4 | 416 | F102_14.6 P63 BN63B4 | 417 |
| 101 | 16 | 6.4 | 13.0 | 2240 | F102_13.0 S05 M05B4 | 416 | F102_13.0 P63 BN63B4 | 417 |
| 114 | 14 | 6.7 | 11.5 | 2150 | F102_11.5 S05 M05B4 | 416 | F102_11.5 P63 BN63B4 | 417 |
| 135 | 12 | 7.4 | 9.8 | 2040 | F102_9.8 S05 M05B4 | 416 | F102_9.8 P63 BN63B4 | 417 |
| 154 | 11 | 7.7 | 8.6 | 1960 | F102_8.6 S05 M05B4 | 416 | F102_8.6 P63 BN63B4 | 417 |
| 178 | 9 | 8.3 | 7.4 | 1870 | F102_7.4 S05 M05B4 | 416 | F102_7.4 P63 BN63B4 | 417 |
| 186 | 9 | 10.7 | 14.6 | 1860 | F102_14.6 S05 M05A2 | 416 | F102_14.6 P63 BN63A2 | 417 |
| 210 | 8 | 10.9 | 13.0 | 1790 | F102_13.0 S05 M05A2 | 416 | F102_13.0 P63 BN63A2 | 417 |

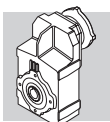


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

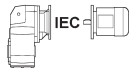

| n ₂ min-1 | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------|----------------------|------|------|----------------------|---|--|---|---|
| 237 | 7 | 11.3 | 11.5 | 1720 | F102_11.5 S05 M05A2 | 416 | F102_11.5 P63 BN63A2 | 417 |
| 279 | 6 | 12.5 | 9.8 | 1630 | F102_9.8 S05 M05A2 | 416 | F102_9.8 P63 BN63A2 | 417 |
| 318 | 5 | 13.0 | 8.6 | 1560 | F102_8.6 S05 M05A2 | 416 | F102_8.6 P63 BN63A2 | 417 |
| 369 | 4 | 14.2 | 7.4 | 1490 | F102_7.4 S05 M05A2 | 416 | F102_7.4 P63 BN63A2 | 417 |

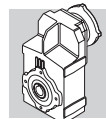
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| n ₂ min-1 | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 0.41 | 5283 | 0.9 | 2188 | 35000 | F704_2188 S1 M1SD6 | 444 | F704_2188 P71 BN71B6 | 445 |
| 0.45 | 4877 | 1.0 | 2019 | 35000 | F704_2019 S1 M1SD6 | 444 | F704_2019 P71 BN71B6 | 445 |
| 0.45 | 4799 | 1.7 | 1987 | 45000 | F804_1987 S1 M1SD6 | 447 | F804_1987 P71 BN71B6 | 448 |
| 0.49 | 4430 | 1.8 | 1834 | 45000 | F804_1834 S1 M1SD6 | 447 | F804_1834 P71 BN71B6 | 448 |
| 0.52 | 4146 | 1.2 | 1717 | 35000 | F704_1717 S1 M1SD6 | 444 | F704_1717 P71 BN71B6 | 445 |
| 0.53 | 4128 | 1.9 | 1709 | 45000 | F804_1709 S1 M1SD6 | 447 | F804_1709 P71 BN71B6 | 448 |
| 0.57 | 3827 | 1.3 | 1585 | 35000 | F704_1585 S1 M1SD6 | 444 | F704_1585 P71 BN71B6 | 445 |
| 0.57 | 3810 | 2.1 | 1578 | 45000 | F804_1578 S1 M1SD6 | 447 | F804_1578 P71 BN71B6 | 448 |
| 0.61 | 3578 | 1.4 | 1481 | 35000 | F704_1481 S1 M1SD6 | 444 | F704_1481 P71 BN71B6 | 445 |
| 0.65 | 3342 | 2.4 | 1384 | 45000 | F804_1384 S1 M1SD6 | 447 | F804_1384 P71 BN71B6 | 448 |
| 0.66 | 3303 | 1.5 | 1368 | 35000 | F704_1368 S1 M1SD6 | 444 | F704_1368 P71 BN71B6 | 445 |
| 0.70 | 3085 | 2.6 | 1277 | 45000 | F804_1277 S1 M1SD6 | 447 | F804_1277 P71 BN71B6 | 448 |
| 0.76 | 2854 | 1.8 | 1182 | 35000 | F704_1182 S1 M1SD6 | 444 | F704_1182 P71 BN71B6 | 445 |
| 0.79 | 2757 | 1.1 | 1141 | 20000 | F604_1141 S1 M1SD6 | 440 | F604_1141 P71 BN71B6 | 441 |
| 0.79 | 2769 | 2.9 | 1146 | 45000 | F804_1146 S1 M1SD6 | 447 | F804_1146 P71 BN71B6 | 448 |
| 0.83 | 2635 | 1.9 | 1091 | 35000 | F704_1091 S1 M1SD6 | 444 | F704_1091 P71 BN71B6 | 445 |
| 0.85 | 2545 | 1.1 | 1054 | 20000 | F604_1054 S1 M1SD6 | 440 | F604_1054 P71 BN71B6 | 441 |
| 0.85 | 2556 | 3.1 | 1058 | 45000 | F804_1058 S1 M1SD6 | 447 | F804_1058 P71 BN71B6 | 448 |
| 0.92 | 2353 | 2.1 | 974.4 | 35000 | F704_974.4 S1 M1SD6 | 444 | F704_974.4 P71 BN71B6 | 445 |
| 0.94 | 2316 | 1.3 | 958.9 | 20000 | F604_958.9 S1 M1SD6 | 440 | F604_958.9 P71 BN71B6 | 441 |
| 1.0 | 2138 | 1.4 | 885.1 | 20000 | F604_885.1 S1 M1SD6 | 440 | F604_885.1 P71 BN71B6 | 441 |
| 1.0 | 2172 | 2.3 | 899.4 | 35000 | F704_899.4 S1 M1SD6 | 444 | F704_899.4 P71 BN71B6 | 445 |
| 1.1 | 1996 | 0.9 | 826.4 | 12000 | F514_826.4 S1 M1SD6 | 436 | F514_826.4 P71 BN71B6 | 437 |
| 1.1 | 1986 | 2.5 | 822.2 | 35000 | F704_822.2 S1 M1SD6 | 444 | F704_822.2 P71 BN71B6 | 445 |
| 1.3 | 1633 | 1.1 | 676.3 | 12000 | F514_676.3 S1 M1SD6 | 436 | F514_676.3 P71 BN71B6 | 437 |
| 1.4 | 1600 | 1.8 | 662.4 | 20000 | F604_662.4 S1 M1SD6 | 440 | F604_662.4 P71 BN71B6 | 441 |
| 1.4 | 1588 | 3.1 | 657.4 | 35000 | F704_657.4 S1 M1SD6 | 444 | F704_657.4 P71 BN71B6 | 445 |
| 1.5 | 1477 | 2.0 | 611.4 | 20000 | F604_611.4 S1 M1SD6 | 440 | F604_611.4 P71 BN71B6 | 441 |
| 1.5 | 1466 | 3.4 | 606.8 | 35000 | F704_606.8 S1 M1SD6 | 444 | F704_606.8 P71 BN71B6 | 445 |
| 1.7 | 1282 | 0.9 | 813.8 | 8500 | F414_813.8 S05 M05C4 | 432 | F414_813.8 P71 BN71A4 | 433 |
| 1.8 | 1199 | 0.9 | 739.4 | 8500 | F414_739.4 S05 M05C4 | 432 | F414_739.4 P71 BN71A4 | 433 |
| 1.9 | 1119 | 1.0 | 690.1 | 8500 | F414_690.1 S05 M05C4 | 432 | F414_690.1 P71 BN71A4 | 433 |
| 2.4 | 892 | 1.2 | 549.8 | 8500 | F414_549.8 S05 M05C4 | 432 | F414_549.8 P71 BN71A4 | 433 |
| 2.8 | 783 | 2.3 | 317.3 | 12000 | F513_317.3 S1 M1SD6 | 436 | F513_317.3 P71 BN71B6 | 437 |
| 3.1 | 704 | 1.6 | 433.7 | 8500 | F414_433.7 S05 M05C4 | 432 | F414_433.7 P71 BN71A4 | 433 |
| 3.2 | 679 | 0.9 | 418.9 | 6500 | F314_418.9 S05 M05C4 | 428 | F314_418.9 P71 BN71A4 | 429 |
| 3.7 | 603 | 1.0 | 374.4 | 6500 | | | F313_374.4 P71 BN71A4 | 429 |
| 4.0 | 555 | 2.0 | 344.8 | 8500 | | | F413_344.8 P71 BN71A4 | 433 |
| 4.1 | 536 | 1.1 | 332.8 | 6500 | | | F313_332.8 P71 BN71A4 | 429 |
| 4.7 | 473 | 1.3 | 293.8 | 6500 | | | F313_293.8 P71 BN71A4 | 429 |



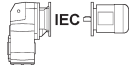



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

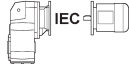

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 4.7 | 477 | 2.3 | 296.6 | 8500 | F253_256.1 S05 M05C4 | 424 | F413_296.6 P71 BN71A4 | 433 |
| 5.2 | 425 | 0.9 | 256.1 | 6500 | | | F253_256.1 P71 BN71A4 | 425 |
| 5.2 | 430 | 2.6 | 266.9 | 8500 | | | F413_266.9 P71 BN71A4 | 433 |
| 5.4 | 408 | 1.5 | 253.6 | 6500 | | | F313_253.6 P71 BN71A4 | 429 |
| 5.7 | 387 | 2.8 | 240.1 | 8500 | | | F413_240.1 P71 BN71A4 | 433 |
| 5.9 | 378 | 1.1 | 227.8 | 6500 | F253_227.8 S05 M05C4 | 424 | F253_227.8 P71 BN71A4 | 425 |
| 6.0 | 367 | 1.6 | 228.2 | 6500 | | | F313_228.2 P71 BN71A4 | 429 |
| 6.3 | 354 | 3.1 | 220.1 | 8500 | | | F413_220.1 P71 BN71A4 | 433 |
| 6.8 | 326 | 1.8 | 202.3 | 6500 | | | F313_202.3 P71 BN71A4 | 429 |
| 6.9 | 321 | 1.2 | 193.6 | 6500 | F253_193.6 S05 M05C4 | 424 | F253_193.6 P71 BN71A4 | 425 |
| 6.9 | 320 | 3.4 | 198.9 | 8500 | | | F413_198.9 P71 BN71A4 | 433 |
| 7.4 | 299 | 2.0 | 185.4 | 6500 | F253_174.2 S05 M05C4 | 424 | F313_185.4 P71 BN71A4 | 429 |
| 7.7 | 289 | 1.4 | 174.2 | 6500 | | | F253_174.2 P71 BN71A4 | 425 |
| 8.0 | 278 | 0.9 | 172.6 | 4000 | | | F203_172.6 P71 BN71A4 | 421 |
| 8.3 | 268 | 2.2 | 166.8 | 6500 | F203_156.3 S05 M05C4 | 420 | F313_166.8 P71 BN71A4 | 429 |
| 8.6 | 259 | 1.0 | 156.3 | 4000 | | | F203_156.3 P71 BN71A4 | 421 |
| 8.6 | 259 | 1.5 | 155.9 | 6500 | F253_155.9 S05 M05C4 | 424 | F253_155.9 P71 BN71A4 | 425 |
| 9.2 | 243 | 2.5 | 150.8 | 6500 | | | F313_150.8 P71 BN71A4 | 429 |
| 9.7 | 230 | 1.7 | 143.0 | 6500 | F253_143.0 S05 M05C4 | 424 | F253_143.0 P71 BN71A4 | 425 |
| 9.8 | 227 | 2.6 | 140.7 | 6500 | | | F313_140.7 P71 BN71A4 | 429 |
| 10.1 | 224 | 1.1 | 132.2 | 4000 | F202_132.2 S05 M05C4 | 420 | F202_132.2 P71 BN71A4 | 421 |
| 10.5 | 212 | 1.9 | 127.8 | 6500 | F253_127.8 S05 M05C4 | 424 | F253_127.8 P71 BN71A4 | 425 |
| 10.7 | 207 | 2.9 | 128.4 | 6500 | | | F313_128.4 P71 BN71A4 | 429 |
| 11.7 | 194 | 1.3 | 114.3 | 4000 | F202_114.3 S05 M05C4 | 420 | F202_114.3 P71 BN71A4 | 421 |
| 12.2 | 182 | 2.2 | 113.0 | 6500 | F253_113.0 S05 M05C4 | 424 | F253_113.0 P71 BN71A4 | 425 |
| 12.3 | 181 | 3.3 | 112.5 | 6500 | | | F313_112.5 P71 BN71A4 | 429 |
| 12.7 | 175 | 2.3 | 105.4 | 6500 | F253_105.4 S05 M05C4 | 424 | F253_105.4 P71 BN71A4 | 425 |
| 13.2 | 172 | 1.5 | 101.6 | 4000 | | | F202_101.6 P71 BN71A4 | 421 |
| 14.0 | 158 | 2.5 | 95.5 | 6500 | F253_95.5 S05 M05C4 | 424 | F253_95.5 P71 BN71A4 | 425 |
| 14.6 | 155 | 0.9 | 91.5 | 2800 | F102_91.5 S05 M05C4 | 416 | F102_91.5 P71 BN71A4 | 417 |
| 14.8 | 153 | 1.6 | 90.4 | 4000 | | | F202_90.4 P71 BN71A4 | 421 |
| 16.1 | 138 | 2.9 | 83.4 | 6500 | F253_83.4 S05 M05C4 | 424 | F253_83.4 P71 BN71A4 | 425 |
| 16.5 | 138 | 1.0 | 81.3 | 2800 | | | F102_81.3 P71 BN71A4 | 417 |
| 17.4 | 130 | 1.9 | 76.8 | 4000 | F202_76.8 S05 M05C4 | 420 | F202_76.8 P71 BN71A4 | 421 |
| 17.5 | 127 | 3.2 | 76.6 | 6420 | F253_76.6 S05 M05C4 | 424 | F253_76.6 P71 BN71A4 | 425 |
| 18.8 | 120 | 1.2 | 71.1 | 2800 | | | F102_71.1 P71 BN71A4 | 417 |
| 19.4 | 117 | 2.1 | 69.1 | 4000 | F202_69.1 S05 M05C4 | 420 | F202_69.1 P71 BN71A4 | 421 |
| 21.3 | 107 | 1.3 | 63.0 | 2800 | F102_63.0 S05 M05C4 | 416 | F102_63.0 P71 BN71A4 | 417 |
| 21.7 | 105 | 2.4 | 61.9 | 4000 | | | F202_61.9 P71 BN71A4 | 421 |
| 23.6 | 96 | 1.5 | 56.7 | 2800 | F102_56.7 S05 M05C4 | 416 | F102_56.7 P71 BN71A4 | 417 |
| 23.6 | 96 | 2.6 | 56.7 | 4000 | | | F202_56.7 P71 BN71A4 | 421 |
| 26.4 | 86 | 2.9 | 50.7 | 4000 | F202_50.7 S05 M05C4 | 420 | F202_50.7 P71 BN71A4 | 421 |
| 27.5 | 83 | 1.7 | 48.7 | 2800 | F102_48.7 S05 M05C4 | 416 | F102_48.7 P71 BN71A4 | 417 |
| 29.9 | 76 | 3.3 | 44.8 | 3870 | | | F202_44.8 P71 BN71A4 | 421 |
| 30.0 | 76 | 1.9 | 44.7 | 2800 | F102_44.7 S05 M05C4 | 416 | F102_44.7 P71 BN71A4 | 417 |
| 34 | 67 | 2.1 | 39.6 | 2800 | | | F102_39.6 P71 BN71A4 | 417 |
| 38 | 60 | 2.3 | 35.3 | 2800 | F102_35.3 S05 M05C4 | 416 | F102_35.3 P71 BN71A4 | 417 |
| 41 | 56 | 2.5 | 33.0 | 2800 | | | F102_33.0 P71 BN71A4 | 417 |
| 45 | 50 | 2.8 | 29.6 | 2800 | F102_29.6 S05 M05C4 | 416 | F102_29.6 P71 BN71A4 | 417 |
| 52 | 44 | 3.2 | 25.8 | 2750 | | | F102_25.8 P71 BN71A4 | 417 |
| 59 | 39 | 3.6 | 22.8 | 2650 | F102_22.8 S05 M05C4 | 416 | F102_22.8 P71 BN71A4 | 417 |

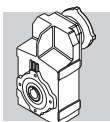


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

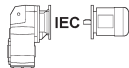

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|------|------|----------------------|---|--|---|---|
| 69 | 33 | 4.2 | 19.3 | 2520 | F102_19.3 S05 M05C4 | 416 | F102_19.3 P71 BN71A4 | 417 |
| 81 | 28 | 4.6 | 17.0 | 2420 | F102_17.0 S05 M05C4 | 416 | F102_17.0 P71 BN71A4 | 417 |
| 91 | 25 | 4.8 | 14.6 | 2310 | F102_14.6 S05 M05C4 | 416 | F102_14.6 P71 BN71A4 | 417 |
| 103 | 22 | 4.7 | 13.0 | 2230 | F102_13.0 S05 M05C4 | 416 | F102_13.0 P71 BN71A4 | 417 |
| 120 | 19 | 5.1 | 11.5 | 2140 | F102_11.5 S05 M05C4 | 416 | F102_11.5 P71 BN71A4 | 417 |
| 137 | 17 | 5.4 | 9.8 | 2030 | F102_9.8 S05 M05C4 | 416 | F102_9.8 P71 BN71A4 | 417 |
| 161 | 14 | 5.8 | 8.6 | 1950 | F102_8.6 S05 M05C4 | 416 | F102_8.6 P71 BN71A4 | 417 |
| 181 | 13 | 6.1 | 7.4 | 1860 | F102_7.4 S05 M05C4 | 416 | F102_7.4 P71 BN71A4 | 417 |
| 187 | 12 | 7.7 | 14.6 | 1850 | F102_14.6 S05 M05B2 | 416 | F102_14.6 P63 BN63B2 | 417 |
| 210 | 11 | 7.9 | 13.0 | 1780 | F102_13.0 S05 M05B2 | 416 | F102_13.0 P63 BN63B2 | 417 |
| 237 | 10 | 8.2 | 11.5 | 1710 | F102_11.5 S05 M05B2 | 416 | F102_11.5 P63 BN63B2 | 417 |
| 280 | 8 | 9.0 | 9.8 | 1620 | F102_9.8 S05 M05B2 | 416 | F102_9.8 P63 BN63B2 | 417 |
| 319 | 7 | 9.4 | 8.6 | 1550 | F102_8.6 S05 M05B2 | 416 | F102_8.6 P63 BN63B2 | 417 |
| 370 | 6 | 10.3 | 7.4 | 1480 | F102_7.4 S05 M05B2 | 416 | F102_7.4 P63 BN63B2 | 417 |

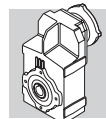
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| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|--|---|--|--|
| 0.46 | 7024 | 1.1 | 1987 | 45000 | F804_1987 S1 M1LA6 | 447 | F804_1987 P80 BN80A6 | 448 |
| 0.50 | 6484 | 1.2 | 1834 | 45000 | F804_1834 S1 M1LA6 | 447 | F804_1834 P80 BN80A6 | 448 |
| 0.53 | 6042 | 1.3 | 1709 | 45000 | F804_1709 S1 M1LA6 | 447 | F804_1709 P80 BN80A6 | 448 |
| 0.57 | 5602 | 0.9 | 1585 | 35000 | F704_1585 S1 M1LA6 | 444 | F704_1585 P80 BN80A6 | 445 |
| 0.58 | 5577 | 1.4 | 1578 | 45000 | F804_1578 S1 M1LA6 | 447 | F804_1578 P80 BN80A6 | 448 |
| 0.61 | 5238 | 1.0 | 1481 | 35000 | F704_1481 S1 M1LA6 | 444 | F704_1481 P80 BN80A6 | 445 |
| 0.63 | 5137 | 1.0 | 2188 | 35000 | F704_2188 S1 M1SD4 | 444 | F704_2188 P71 BN71B4 | 445 |
| 0.68 | 4742 | 1.1 | 2019 | 35000 | F704_2019 S1 M1SD4 | 444 | F704_2019 P71 BN71B4 | 445 |
| 0.69 | 4666 | 1.7 | 1987 | 45000 | F804_1987 S1 M1SD4 | 447 | F804_1987 P71 BN71B4 | 448 |
| 0.75 | 4307 | 1.9 | 1834 | 45000 | F804_1834 S1 M1SD4 | 447 | F804_1834 P71 BN71B4 | 448 |
| 0.80 | 4031 | 1.2 | 1717 | 35000 | F704_1717 S1 M1SD4 | 444 | F704_1717 P71 BN71B4 | 445 |
| 0.80 | 4013 | 2.0 | 1709 | 45000 | F804_1709 S1 M1SD4 | 447 | F804_1709 P71 BN71B4 | 448 |
| 0.86 | 3721 | 1.3 | 1585 | 35000 | F704_1585 S1 M1SD4 | 444 | F704_1585 P71 BN71B4 | 445 |
| 0.87 | 3705 | 2.2 | 1578 | 45000 | F804_1578 S1 M1SD4 | 447 | F804_1578 P71 BN71B4 | 448 |
| 0.92 | 3479 | 1.4 | 1481 | 35000 | F704_1481 S1 M1SD4 | 444 | F704_1481 P71 BN71B4 | 445 |
| 0.99 | 3250 | 2.5 | 1384 | 45000 | F804_1384 S1 M1SD4 | 447 | F804_1384 P71 BN71B4 | 448 |
| 1.0 | 3211 | 1.6 | 1368 | 35000 | F704_1368 S1 M1SD4 | 444 | F704_1368 P71 BN71B4 | 445 |
| 1.1 | 3000 | 2.7 | 1277 | 45000 | F804_1277 S1 M1SD4 | 447 | F804_1277 P71 BN71B4 | 448 |
| 1.2 | 2680 | 1.1 | 1141 | 20000 | F604_1141 S1 M1SD4 | 440 | F604_1141 P71 BN71B4 | 441 |
| 1.2 | 2775 | 1.8 | 1182 | 35000 | F704_1182 S1 M1SD4 | 444 | F704_1182 P71 BN71B4 | 445 |
| 1.2 | 2692 | 3.0 | 1146 | 45000 | F804_1146 S1 M1SD4 | 447 | F804_1146 P71 BN71B4 | 448 |
| 1.3 | 2474 | 1.2 | 1054 | 20000 | F604_1054 S1 M1SD4 | 440 | F604_1054 P71 BN71B4 | 441 |
| 1.3 | 2562 | 2.0 | 1091 | 35000 | F704_1091 S1 M1SD4 | 444 | F704_1091 P71 BN71B4 | 445 |
| 1.3 | 2485 | 3.2 | 1058 | 45000 | F804_1058 S1 M1SD4 | 447 | F804_1058 P71 BN71B4 | 448 |
| 1.4 | 2252 | 1.3 | 958.9 | 20000 | F604_958.9 S1 M1SD4 | 440 | F604_958.9 P71 BN71B4 | 441 |
| 1.4 | 2288 | 2.2 | 974.4 | 35000 | F704_974.4 S1 M1SD4 | 444 | F704_974.4 P71 BN71B4 | 445 |
| 1.5 | 2079 | 0.9 | 885.5 | 12000 | F514_885.5 S1 M1SD4 | 436 | F514_885.5 P71 BN71B4 | 437 |
| 1.5 | 2078 | 1.4 | 885.1 | 20000 | F604_885.1 S1 M1SD4 | 440 | F604_885.1 P71 BN71B4 | 441 |
| 1.5 | 2112 | 2.4 | 899.4 | 35000 | F704_899.4 S1 M1SD4 | 444 | F704_899.4 P71 BN71B4 | 445 |
| 1.7 | 1941 | 0.9 | 826.4 | 12000 | F514_826.4 S1 M1SD4 | 436 | F514_826.4 P71 BN71B4 | 437 |







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

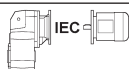

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 1.7 | 1931 | 2.6 | 822.2 | 35000 | F704_822.2 S1 M1SD4 | 444 | F704_822.2 P71 BN71B4 | 445 |
| 2.0 | 1588 | 1.1 | 676.3 | 12000 | F514_676.3 S1 M1SD4 | 436 | F514_676.3 P71 BN71B4 | 437 |
| 2.1 | 1556 | 1.9 | 662.4 | 20000 | F604_662.4 S1 M1SD4 | 440 | F604_662.4 P71 BN71B4 | 441 |
| 2.1 | 1544 | 3.2 | 657.4 | 35000 | F704_657.4 S1 M1SD4 | 444 | F704_657.4 P71 BN71B4 | 445 |
| 2.2 | 1436 | 2.0 | 611.4 | 20000 | F604_611.4 S1 M1SD4 | 440 | F604_611.4 P71 BN71B4 | 441 |
| 2.3 | 1425 | 3.5 | 606.8 | 35000 | F704_606.8 S1 M1SD4 | 444 | F704_606.8 P71 BN71B4 | 445 |
| 2.5 | 1291 | 0.9 | 549.8 | 8500 | F414_549.8 S1 M1SD4 | 432 | F414_549.8 P71 BN71B4 | 433 |
| 2.6 | 1246 | 1.4 | 530.5 | 12000 | F514_530.5 S1 M1SD4 | 436 | F514_530.5 P71 BN71B4 | 437 |
| 2.6 | 1246 | 2.3 | 530.7 | 20000 | F604_530.7 S1 M1SD4 | 440 | F604_530.7 P71 BN71B4 | 441 |
| 2.8 | 1150 | 2.5 | 489.8 | 20000 | F604_489.8 S1 M1SD4 | 440 | F604_489.8 P71 BN71B4 | 441 |
| 3.2 | 1018 | 1.1 | 433.7 | 8500 | F414_433.7 S1 M1SD4 | 432 | F414_433.7 P71 BN71B4 | 433 |
| 3.2 | 1008 | 1.8 | 429.1 | 12000 | F514_429.1 S1 M1SD4 | 436 | F514_429.1 P71 BN71B4 | 437 |
| 3.2 | 1016 | 2.9 | 432.6 | 20000 | F604_432.6 S1 M1SD4 | 440 | F604_432.6 P71 BN71B4 | 441 |
| 3.4 | 938 | 3.1 | 399.3 | 20000 | F604_399.3 S1 M1SD4 | 440 | F604_399.3 P71 BN71B4 | 441 |
| 3.9 | 846 | 2.1 | 352.5 | 12000 | F513_352.5 S1 M1SD4 | 436 | F513_352.5 P71 BN71B4 | 437 |
| 4.0 | 827 | 1.3 | 344.8 | 8500 | F413_344.8 S1 M1SD4 | 432 | F413_344.8 P71 BN71B4 | 433 |
| 4.3 | 761 | 2.4 | 317.3 | 12000 | F513_317.3 S1 M1SD4 | 436 | F513_317.3 P71 BN71B4 | 437 |
| 4.6 | 712 | 1.5 | 296.6 | 8500 | F413_296.6 S1 M1SD4 | 432 | F413_296.6 P71 BN71B4 | 433 |
| 4.8 | 686 | 2.6 | 285.9 | 12000 | F513_285.9 S1 M1SD4 | 436 | F513_285.9 P71 BN71B4 | 437 |
| 5.1 | 641 | 1.7 | 266.9 | 8500 | F413_266.9 S1 M1SD4 | 432 | F413_266.9 P71 BN71B4 | 433 |
| 5.2 | 629 | 2.9 | 262.1 | 12000 | F513_262.1 S1 M1SD4 | 436 | F513_262.1 P71 BN71B4 | 437 |
| 5.4 | 609 | 1.0 | 253.6 | 6500 | F313_253.6 S1 M1SD4 | 428 | F313_253.6 P71 BN71B4 | 429 |
| 5.7 | 576 | 1.9 | 240.1 | 8500 | F413_240.1 S1 M1SD4 | 432 | F413_240.1 P71 BN71B4 | 433 |
| 5.7 | 576 | 3.1 | 239.8 | 12000 | F513_239.8 S1 M1SD4 | 436 | F513_239.8 P71 BN71B4 | 437 |
| 6.0 | 548 | 1.1 | 228.2 | 6500 | F313_228.2 S1 M1SD4 | 428 | F313_228.2 P71 BN71B4 | 429 |
| 6.2 | 528 | 2.1 | 220.1 | 8500 | F413_220.1 S1 M1SD4 | 432 | F413_220.1 P71 BN71B4 | 433 |
| 6.3 | 520 | 3.5 | 216.9 | 12000 | F513_216.9 S1 M1SD4 | 436 | F513_216.9 P71 BN71B4 | 437 |
| 6.8 | 485 | 1.2 | 202.3 | 6500 | F313_202.3 S1 M1SD4 | 428 | F313_202.3 P71 BN71B4 | 429 |
| 6.9 | 477 | 2.3 | 198.9 | 8500 | F413_198.9 S1 M1SD4 | 432 | F413_198.9 P71 BN71B4 | 433 |
| 7.4 | 445 | 1.3 | 185.4 | 6500 | F313_185.4 S1 M1SD4 | 428 | F313_185.4 P71 BN71B4 | 429 |
| 7.6 | 434 | 2.5 | 180.7 | 8500 | F413_180.7 S1 M1SD4 | 432 | F413_180.7 P71 BN71B4 | 433 |
| 7.9 | 418 | 1.0 | 174.2 | 6500 | F253_174.2 S1 M1SD4 | 424 | F253_174.2 P71 BN71B4 | 425 |
| 8.1 | 405 | 2.7 | 168.7 | 8500 | F413_168.7 S1 M1SD4 | 432 | F413_168.7 P71 BN71B4 | 433 |
| 8.2 | 400 | 1.5 | 166.8 | 6500 | F313_166.8 S1 M1SD4 | 428 | F313_166.8 P71 BN71B4 | 429 |
| 8.8 | 374 | 1.1 | 155.9 | 6500 | F253_155.9 S1 M1SD4 | 424 | F253_155.9 P71 BN71B4 | 425 |
| 9.1 | 362 | 1.7 | 150.8 | 6500 | F313_150.8 S1 M1SD4 | 428 | F313_150.8 P71 BN71B4 | 429 |
| 9.6 | 343 | 1.2 | 143.0 | 6500 | F253_143.0 S1 M1SD4 | 424 | F253_143.0 P71 BN71B4 | 425 |
| 9.7 | 338 | 1.8 | 140.7 | 6500 | F313_140.7 S1 M1SD4 | 428 | F313_140.7 P71 BN71B4 | 429 |
| 10.2 | 323 | 3.4 | 134.4 | 8500 | F413_134.4 S1 M1SD4 | 432 | F413_134.4 P71 BN71B4 | 433 |
| 10.7 | 307 | 1.3 | 127.8 | 6500 | F253_127.8 S1 M1SD4 | 424 | F253_127.8 P71 BN71B4 | 425 |
| 10.7 | 308 | 1.9 | 128.4 | 6500 | F313_128.4 S1 M1SD4 | 428 | F313_128.4 P71 BN71B4 | 429 |
| 12.1 | 271 | 1.5 | 113.0 | 6500 | F253_113.0 S1 M1SD4 | 424 | F253_113.0 P71 BN71B4 | 425 |
| 12.2 | 270 | 2.2 | 112.5 | 6500 | F313_112.5 S1 M1SD4 | 428 | F313_112.5 P71 BN71B4 | 429 |
| 13.0 | 253 | 1.6 | 105.4 | 6500 | F253_105.4 S1 M1SD4 | 424 | F253_105.4 P71 BN71B4 | 425 |
| 13.4 | 245 | 2.5 | 101.9 | 6500 | F313_101.9 S1 M1SD4 | 428 | F313_101.9 P71 BN71B4 | 429 |
| 13.5 | 249 | 1.0 | 101.6 | 4000 | | | F202_101.6 P71 BN71B4 | 421 |
| 14.3 | 229 | 1.7 | 95.5 | 6490 | F253_95.5 S1 M1SD4 | 424 | F253_95.5 P71 BN71B4 | 425 |
| 15.2 | 222 | 1.1 | 90.4 | 4000 | F202_90.4 S1 M1SD4 | 420 | F202_90.4 P71 BN71B4 | 421 |
| 15.7 | 210 | 2.9 | 87.4 | 6500 | F313_87.4 S1 M1SD4 | 428 | F313_87.4 P71 BN71B4 | 429 |
| 16.4 | 200 | 2.0 | 83.4 | 6280 | F253_83.4 S1 M1SD4 | 424 | F253_83.4 P71 BN71B4 | 425 |
| 17.4 | 189 | 3.2 | 78.9 | 6500 | F313_78.9 S1 M1SD4 | 428 | F313_78.9 P71 BN71B4 | 429 |

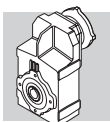


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


| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 17.8 | 188 | 1.3 | 76.8 | 4000 | F202_76.8 S1 M1SD4 | 420 | F202_76.8 P71 BN71B4 | 421 |
| 17.9 | 184 | 2.2 | 76.6 | 6160 | F253_76.6 S1 M1SD4 | 424 | F253_76.6 P71 BN71B4 | 425 |
| 19.8 | 169 | 1.5 | 69.1 | 4000 | F202_69.1 S1 M1SD4 | 420 | F202_69.1 P71 BN71B4 | 421 |
| 21.0 | 157 | 2.6 | 65.3 | 5920 | F253_65.3 S1 M1SD4 | 424 | F253_65.3 P71 BN71B4 | 425 |
| 21.7 | 154 | 0.9 | 63.0 | 2800 | F102_63.0 S1 M1SD4 | 416 | F102_63.0 P71 BN71B4 | 417 |
| 22.1 | 152 | 1.6 | 61.9 | 4000 | F202_61.9 S1 M1SD4 | 420 | F202_61.9 P71 BN71B4 | 421 |
| 23.5 | 140 | 2.9 | 58.3 | 5750 | F253_58.3 S1 M1SD4 | 424 | F253_58.3 P71 BN71B4 | 425 |
| 24.2 | 139 | 1.0 | 56.7 | 2800 | F102_56.7 S1 M1SD4 | 416 | F102_56.7 P71 BN71B4 | 417 |
| 24.2 | 139 | 1.8 | 56.7 | 4000 | F202_56.7 S1 M1SD4 | 420 | F202_56.7 P71 BN71B4 | 421 |
| 27.0 | 124 | 2.0 | 50.7 | 3900 | F202_50.7 S1 M1SD4 | 420 | F202_50.7 P71 BN71B4 | 421 |
| 27.0 | 122 | 3.3 | 50.8 | 5540 | F253_50.8 S1 M1SD4 | 424 | F253_50.8 P71 BN71B4 | 425 |
| 28.1 | 119 | 1.2 | 48.7 | 2800 | F102_48.7 S1 M1SD4 | 416 | F102_48.7 P71 BN71B4 | 417 |
| 31 | 110 | 1.3 | 44.7 | 2800 | F102_44.7 S1 M1SD4 | 416 | F102_44.7 P71 BN71B4 | 417 |
| 31 | 110 | 2.3 | 44.8 | 3770 | F202_44.8 S1 M1SD4 | 420 | F202_44.8 P71 BN71B4 | 421 |
| 31 | 109 | 3.5 | 44.4 | 5370 | F252_44.4 S1 M1SD4 | 424 | F252_44.4 P71 BN71B4 | 425 |
| 33 | 103 | 2.4 | 41.8 | 3700 | F202_41.8 S1 M1SD4 | 420 | F202_41.8 P71 BN71B4 | 421 |
| 35 | 97 | 1.4 | 39.6 | 2800 | F102_39.6 S1 M1SD4 | 416 | F102_39.6 P71 BN71B4 | 417 |
| 36 | 93 | 2.7 | 37.9 | 3600 | F202_37.9 S1 M1SD4 | 420 | F202_37.9 P71 BN71B4 | 421 |
| 39 | 87 | 1.6 | 35.3 | 2800 | F102_35.3 S1 M1SD4 | 416 | F102_35.3 P71 BN71B4 | 417 |
| 41 | 81 | 3.1 | 33.1 | 3460 | F202_33.1 S1 M1SD4 | 420 | F202_33.1 P71 BN71B4 | 421 |
| 42 | 81 | 1.7 | 33.0 | 2800 | F102_33.0 S1 M1SD4 | 416 | F102_33.0 P71 BN71B4 | 417 |
| 45 | 75 | 3.4 | 30.4 | 3380 | F202_30.4 S1 M1SD4 | 420 | F202_30.4 P71 BN71B4 | 421 |
| 46 | 73 | 1.9 | 29.6 | 2800 | F102_29.6 S1 M1SD4 | 416 | F102_29.6 P71 BN71B4 | 417 |
| 53 | 63 | 2.2 | 25.8 | 2690 | F102_25.8 S1 M1SD4 | 416 | F102_25.8 P71 BN71B4 | 417 |
| 60 | 56 | 2.5 | 22.8 | 2600 | F102_22.8 S1 M1SD4 | 416 | F102_22.8 P71 BN71B4 | 417 |
| 71 | 47 | 2.9 | 19.3 | 2470 | F102_19.3 S1 M1SD4 | 416 | F102_19.3 P71 BN71B4 | 417 |
| 81 | 42 | 3.1 | 17.0 | 2380 | F102_17.0 S1 M1SD4 | 416 | F102_17.0 P71 BN71B4 | 417 |
| 94 | 36 | 3.3 | 14.6 | 2280 | F102_14.6 S1 M1SD4 | 416 | F102_14.6 P71 BN71B4 | 417 |
| 105 | 32 | 3.3 | 13.0 | 2200 | F102_13.0 S1 M1SD4 | 416 | F102_13.0 P71 BN71B4 | 417 |
| 119 | 28 | 3.4 | 11.5 | 2120 | F102_11.5 S1 M1SD4 | 416 | F102_11.5 P71 BN71B4 | 417 |
| 140 | 24 | 3.7 | 9.8 | 2010 | F102_9.8 S1 M1SD4 | 416 | F102_9.8 P71 BN71B4 | 417 |
| 160 | 21 | 3.9 | 8.6 | 1930 | F102_8.6 S1 M1SD4 | 416 | F102_8.6 P71 BN71B4 | 417 |
| 185 | 18 | 4.2 | 7.4 | 1850 | F102_7.4 S1 M1SD4 | 416 | F102_7.4 P71 BN71B4 | 417 |
| 193 | 17 | 5.4 | 14.6 | 1830 | F102_14.6 S05 M05C2 | 416 | F102_14.6 P71 BN71A2 | 417 |
| 216 | 16 | 5.5 | 13.0 | 1760 | F102_13.0 S05 M05C2 | 416 | F102_13.0 P71 BN71A2 | 417 |
| 244 | 14 | 5.7 | 11.5 | 1690 | F102_11.5 S05 M05C2 | 416 | F102_11.5 P71 BN71A2 | 417 |
| 289 | 12 | 6.3 | 9.8 | 1610 | F102_9.8 S05 M05C2 | 416 | F102_9.8 P71 BN71A2 | 417 |
| 329 | 10 | 6.6 | 8.6 | 1540 | F102_8.6 S05 M05C2 | 416 | F102_8.6 P71 BN71A2 | 417 |
| 381 | 9 | 7.1 | 7.4 | 1470 | F102_7.4 S05 M05C2 | 416 | F102_7.4 P71 BN71A2 | 417 |

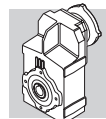
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| n ₂ | M ₂ | S | i | R _{n2} |  |  |  |  |
|----------------|----------------|-----|------|-----------------|---|--|---|---|
| 0.44 | 10909 | 1.3 | 2099 | 55000 | F904_2099 S2 M2SA6 | 450 | F904_2099 P80 BN80B6 | 451 |
| 0.47 | 10070 | 1.4 | 1937 | 55000 | F904_1937 S2 M2SA6 | 450 | F904_1937 P80 BN80B6 | 451 |
| 0.54 | 8884 | 0.9 | 1709 | 45000 | F804_1709 S2 M2SA6 | 447 | F804_1709 P80 BN80B6 | 448 |
| 0.54 | 8849 | 1.6 | 1702 | 55000 | F904_1702 S2 M2SA6 | 450 | F904_1702 P80 BN80B6 | 451 |
| 0.58 | 8201 | 1.0 | 1578 | 45000 | F804_1578 S2 M2SA6 | 447 | F804_1578 P80 BN80B6 | 448 |






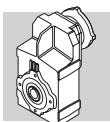
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| n ₂ | M ₂ | S | i | R _{n2} |  |  |  | |
|----------------|----------------|-----|-------|-----------------|---|--|---|-----|
| 0.59 | 8168 | 1.7 | 1571 | 55000 | F904_1571 S2 M2SA6 | 450 | F904_1571 P80 BN80B6 | 451 |
| 0.64 | 7422 | 1.9 | 1428 | 55000 | F904_1428 S2 M2SA6 | 450 | F904_1428 P80 BN80B6 | 451 |
| 0.66 | 7193 | 1.1 | 1384 | 45000 | F804_1384 S2 M2SA6 | 447 | F804_1384 P80 BN80B6 | 448 |
| 0.69 | 6885 | 1.2 | 1987 | 45000 | F804_1987 S1 M1LA4 | 447 | F804_1987 P80 BN80A4 | 448 |
| 0.75 | 6356 | 1.3 | 1834 | 45000 | F804_1834 S1 M1LA4 | 447 | F804_1834 P80 BN80A4 | 448 |
| 0.81 | 5923 | 1.4 | 1709 | 45000 | F804_1709 S1 M1LA4 | 447 | F804_1709 P80 BN80A4 | 448 |
| 0.87 | 5491 | 0.9 | 1585 | 35000 | F704_1585 S1 M1LA4 | 444 | F704_1585 P80 BN80A4 | 445 |
| 0.87 | 5467 | 1.5 | 1578 | 45000 | F804_1578 S1 M1LA4 | 447 | F804_1578 P80 BN80A4 | 448 |
| 0.93 | 5134 | 1.0 | 1481 | 35000 | F704_1481 S1 M1LA4 | 444 | F704_1481 P80 BN80A4 | 445 |
| 1.0 | 4739 | 1.1 | 1368 | 35000 | F704_1368 S1 M1LA4 | 444 | F704_1368 P80 BN80A4 | 445 |
| 1.0 | 4795 | 1.7 | 1384 | 45000 | F804_1384 S1 M1LA4 | 447 | F804_1384 P80 BN80A4 | 448 |
| 1.1 | 4427 | 1.8 | 1277 | 45000 | F804_1277 S1 M1LA4 | 447 | F804_1277 P80 BN80A4 | 448 |
| 1.2 | 4095 | 1.2 | 1182 | 35000 | F704_1182 S1 M1LA4 | 444 | F704_1182 P80 BN80A4 | 445 |
| 1.2 | 3972 | 2.0 | 1146 | 45000 | F804_1146 S1 M1LA4 | 447 | F804_1146 P80 BN80A4 | 448 |
| 1.3 | 3780 | 1.3 | 1091 | 35000 | F704_1091 S1 M1LA4 | 444 | F704_1091 P80 BN80A4 | 445 |
| 1.3 | 3667 | 2.2 | 1058 | 45000 | F804_1058 S1 M1LA4 | 447 | F804_1058 P80 BN80A4 | 448 |
| 1.4 | 3323 | 0.9 | 958.9 | 20000 | F604_958.9 S1 M1LA4 | 440 | F604_958.9 P80 BN80A4 | 441 |
| 1.4 | 3377 | 1.5 | 974.4 | 35000 | F704_974.4 S1 M1LA4 | 444 | F704_974.4 P80 BN80A4 | 445 |
| 1.5 | 3117 | 1.6 | 899.4 | 35000 | F704_899.4 S1 M1LA4 | 444 | F704_899.4 P80 BN80A4 | 445 |
| 1.5 | 3109 | 2.6 | 897.3 | 45000 | F804_897.3 S1 M1LA4 | 447 | F804_897.3 P80 BN80A4 | 448 |
| 1.6 | 3067 | 0.9 | 885.1 | 20000 | F604_885.1 S1 M1LA4 | 440 | F604_885.1 P80 BN80A4 | 441 |
| 1.7 | 2849 | 1.8 | 822.2 | 35000 | F704_822.2 S1 M1LA4 | 444 | F704_822.2 P80 BN80A4 | 445 |
| 1.8 | 2684 | 3.0 | 774.4 | 45000 | F804_774.4 S1 M1LA4 | 447 | F804_774.4 P80 BN80A4 | 448 |
| 1.9 | 2477 | 3.2 | 714.9 | 45000 | F804_714.9 S1 M1LA4 | 447 | F804_714.9 P80 BN80A4 | 448 |
| 2.1 | 2295 | 1.3 | 662.4 | 20000 | F604_662.4 S1 M1LA4 | 440 | F604_662.4 P80 BN80A4 | 441 |
| 2.1 | 2278 | 2.2 | 657.4 | 35000 | F704_657.4 S1 M1LA4 | 444 | F704_657.4 P80 BN80A4 | 445 |
| 2.3 | 2119 | 1.4 | 611.4 | 20000 | F604_611.4 S1 M1LA4 | 440 | F604_611.4 P80 BN80A4 | 441 |
| 2.3 | 2103 | 2.4 | 606.8 | 35000 | F704_606.8 S1 M1LA4 | 444 | F704_606.8 P80 BN80A4 | 445 |
| 2.6 | 1838 | 1.0 | 530.5 | 12000 | F514_530.5 S1 M1LA4 | 436 | F514_530.5 P80 BN80A4 | 437 |
| 2.6 | 1839 | 1.6 | 530.7 | 20000 | F604_530.7 S1 M1LA4 | 440 | F604_530.7 P80 BN80A4 | 441 |
| 2.7 | 1769 | 2.8 | 510.4 | 35000 | F704_510.4 S1 M1LA4 | 444 | F704_510.4 P80 BN80A4 | 445 |
| 2.8 | 1698 | 1.7 | 489.8 | 20000 | F604_489.8 S1 M1LA4 | 440 | F604_489.8 P80 BN80A4 | 441 |
| 2.9 | 1633 | 3.1 | 471.2 | 35000 | F704_471.2 S1 M1LA4 | 444 | F704_471.2 P80 BN80A4 | 445 |
| 3.2 | 1487 | 1.2 | 429.1 | 12000 | F514_429.1 S1 M1LA4 | 436 | F514_429.1 P80 BN80A4 | 437 |
| 3.2 | 1499 | 1.9 | 432.6 | 20000 | F604_432.6 S1 M1LA4 | 440 | F604_432.6 P80 BN80A4 | 441 |
| 3.5 | 1384 | 2.1 | 399.3 | 20000 | F604_399.3 S1 M1LA4 | 440 | F604_399.3 P80 BN80A4 | 441 |
| 3.9 | 1248 | 1.4 | 352.5 | 12000 | F513_352.5 S1 M1LA4 | 436 | F513_352.5 P80 BN80A4 | 437 |
| 4.0 | 1221 | 0.9 | 344.8 | 8500 | F413_344.8 S1 M1LA4 | 432 | F413_344.8 P80 BN80A4 | 433 |
| 4.0 | 1184 | 2.4 | 341.7 | 20000 | F604_341.7 S1 M1LA4 | 440 | F604_341.7 P80 BN80A4 | 441 |
| 4.3 | 1124 | 1.6 | 317.3 | 12000 | F513_317.3 S1 M1LA4 | 436 | F513_317.3 P80 BN80A4 | 437 |
| 4.4 | 1093 | 2.7 | 315.4 | 20000 | F604_315.4 S1 M1LA4 | 440 | F604_315.4 P80 BN80A4 | 441 |
| 4.7 | 1050 | 1.0 | 296.6 | 8500 | F413_296.6 S1 M1LA4 | 432 | F413_296.6 P80 BN80A4 | 433 |
| 4.8 | 1013 | 1.8 | 285.9 | 12000 | F513_285.9 S1 M1LA4 | 436 | F513_285.9 P80 BN80A4 | 437 |
| 5.2 | 945 | 1.2 | 266.9 | 8500 | F413_266.9 S1 M1LA4 | 432 | F413_266.9 P80 BN80A4 | 433 |
| 5.3 | 928 | 1.9 | 262.1 | 12000 | F513_262.1 S1 M1LA4 | 436 | F513_262.1 P80 BN80A4 | 437 |
| 5.7 | 850 | 1.3 | 240.1 | 8500 | F413_240.1 S1 M1LA4 | 432 | F413_240.1 P80 BN80A4 | 433 |
| 5.8 | 849 | 2.1 | 239.8 | 12000 | F513_239.8 S1 M1LA4 | 436 | F513_239.8 P80 BN80A4 | 437 |
| 6.3 | 780 | 1.4 | 220.1 | 8500 | F413_220.1 S1 M1LA4 | 432 | F413_220.1 P80 BN80A4 | 433 |
| 6.4 | 768 | 2.3 | 216.9 | 12000 | F513_216.9 S1 M1LA4 | 436 | F513_216.9 P80 BN80A4 | 437 |
| 6.8 | 717 | 2.5 | 202.4 | 12000 | F513_202.4 S1 M1LA4 | 436 | F513_202.4 P80 BN80A4 | 437 |
| 6.9 | 704 | 1.6 | 198.9 | 8500 | F413_198.9 S1 M1LA4 | 432 | F413_198.9 P80 BN80A4 | 433 |






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

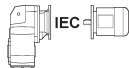

| n ₂ | M ₂ | S | i | R _{n2} |  |  |  | |
|----------------|----------------|-----|-------|-----------------|---|--|---|-----|
| 7.4 | 657 | 0.9 | 185.4 | 6500 | F313_185.4 S1 M1LA4 | 428 | F313_185.4 P80 BN80A4 | 429 |
| 7.6 | 640 | 1.7 | 180.7 | 8500 | F413_180.7 S1 M1LA4 | 432 | F413_180.7 P80 BN80A4 | 433 |
| 8.2 | 597 | 1.8 | 168.7 | 8500 | F413_168.7 S1 M1LA4 | 432 | F413_168.7 P80 BN80A4 | 433 |
| 8.3 | 591 | 1.0 | 166.8 | 6500 | F313_166.8 S1 M1LA4 | 428 | F313_166.8 P80 BN80A4 | 429 |
| 8.3 | 587 | 3.1 | 165.6 | 12000 | F513_165.6 S1 M1LA4 | 436 | F513_165.6 P80 BN80A4 | 437 |
| 9.2 | 534 | 1.1 | 150.8 | 6500 | F313_150.8 S1 M1LA4 | 428 | F313_150.8 P80 BN80A4 | 429 |
| 9.8 | 498 | 1.2 | 140.7 | 6500 | F313_140.7 S1 M1LA4 | 428 | F313_140.7 P80 BN80A4 | 429 |
| 10.3 | 476 | 2.3 | 134.4 | 8500 | F413_134.4 S1 M1LA4 | 432 | F413_134.4 P80 BN80A4 | 433 |
| 10.7 | 455 | 1.3 | 128.4 | 6500 | F313_128.4 S1 M1LA4 | 428 | F313_128.4 P80 BN80A4 | 429 |
| 12.2 | 400 | 1.0 | 113.0 | 6130 | F253_113.0 S1 M1LA4 | 424 | F253_113.0 P80 BN80A4 | 425 |
| 12.3 | 399 | 1.5 | 112.5 | 6500 | F313_112.5 S1 M1LA4 | 428 | F313_112.5 P80 BN80A4 | 429 |
| 13.0 | 375 | 2.9 | 106.0 | 8500 | F413_106.0 S1 M1LA4 | 432 | F413_106.0 P80 BN80A4 | 433 |
| 13.1 | 373 | 1.1 | 105.4 | 6070 | F253_105.4 S1 M1LA4 | 424 | F253_105.4 P80 BN80A4 | 425 |
| 13.5 | 361 | 1.7 | 101.9 | 6500 | F313_101.9 S1 M1LA4 | 428 | F313_101.9 P80 BN80A4 | 429 |
| 14.5 | 338 | 1.2 | 95.5 | 5980 | F253_95.5 S1 M1LA4 | 424 | F253_95.5 P80 BN80A4 | 425 |
| 15.8 | 309 | 1.9 | 87.4 | 6500 | F313_87.4 S1 M1LA4 | 428 | F313_87.4 P80 BN80A4 | 429 |
| 16.5 | 295 | 1.4 | 83.4 | 5840 | F253_83.4 S1 M1LA4 | 424 | F253_83.4 P80 BN80A4 | 425 |
| 17.5 | 279 | 2.1 | 78.9 | 6500 | F313_78.9 S1 M1LA4 | 428 | F313_78.9 P80 BN80A4 | 429 |
| 18.0 | 278 | 0.9 | 76.8 | 4000 | F202_76.8 S1 M1LA4 | 420 | F202_76.8 P80 BN80A4 | 421 |
| 18.0 | 271 | 1.5 | 76.6 | 5750 | F253_76.6 S1 M1LA4 | 424 | F253_76.6 P80 BN80A4 | 425 |
| 20.0 | 250 | 1.0 | 69.1 | 3980 | F202_69.1 S1 M1LA4 | 420 | F202_69.1 P80 BN80A4 | 421 |
| 20.0 | 245 | 2.5 | 69.1 | 6500 | F313_69.1 S1 M1LA4 | 428 | F313_69.1 P80 BN80A4 | 429 |
| 21.1 | 231 | 1.7 | 65.3 | 5570 | F253_65.3 S1 M1LA4 | 424 | F253_65.3 P80 BN80A4 | 425 |
| 22.1 | 221 | 2.7 | 62.8 | 6500 | | | F313_62.8 P80 BN80A4 | 429 |
| 22.3 | 224 | 1.1 | 61.9 | 3890 | F202_61.9 S1 M1LA4 | 420 | F202_61.9 P80 BN80A4 | 421 |
| 23.7 | 207 | 1.9 | 58.3 | 5430 | F253_58.3 S1 M1LA4 | 424 | F253_58.3 P80 BN80A4 | 425 |
| 24.3 | 205 | 1.2 | 56.7 | 3810 | F202_56.7 S1 M1LA4 | 420 | F202_56.7 P80 BN80A4 | 421 |
| 26.7 | 183 | 3.3 | 52.1 | 6500 | | | F313_52.1 P80 BN80A4 | 429 |
| 27.2 | 184 | 1.4 | 50.7 | 3720 | F202_50.7 S1 M1LA4 | 420 | F202_50.7 P80 BN80A4 | 421 |
| 27.2 | 180 | 2.2 | 50.8 | 5270 | F253_50.8 S1 M1LA4 | 424 | F253_50.8 P80 BN80A4 | 425 |
| 29.2 | 167 | 3.5 | 47.5 | 6500 | | | F313_47.5 P80 BN80A4 | 429 |
| 31 | 162 | 1.5 | 44.8 | 3610 | F202_44.8 S1 M1LA4 | 420 | F202_44.8 P80 BN80A4 | 421 |
| 31 | 161 | 2.4 | 44.4 | 5140 | F252_44.4 S1 M1LA4 | 424 | F252_44.4 P80 BN80A4 | 425 |
| 31 | 160 | 2.5 | 45.6 | 5130 | | | F253_45.6 P80 BN80A4 | 425 |
| 33 | 151 | 1.7 | 41.8 | 3550 | F202_41.8 S1 M1LA4 | 420 | F202_41.8 P80 BN80A4 | 421 |
| 34 | 147 | 2.5 | 40.7 | 5030 | F252_40.7 S1 M1LA4 | 424 | F252_40.7 P80 BN80A4 | 425 |
| 35 | 143 | 1.0 | 39.6 | 2800 | F102_39.6 S1 M1LA4 | 416 | F102_39.6 P80 BN80A4 | 417 |
| 36 | 137 | 1.8 | 37.9 | 3460 | F202_37.9 S1 M1LA4 | 420 | F202_37.9 P80 BN80A4 | 421 |
| 38 | 132 | 3.0 | 36.4 | 4890 | F252_36.4 S1 M1LA4 | 424 | F252_36.4 P80 BN80A4 | 425 |
| 39 | 128 | 1.1 | 35.3 | 2800 | F102_35.3 S1 M1LA4 | 416 | F102_35.3 P80 BN80A4 | 417 |
| 42 | 119 | 1.2 | 33.0 | 2750 | F102_33.0 S1 M1LA4 | 416 | F102_33.0 P80 BN80A4 | 417 |
| 42 | 120 | 2.1 | 33.1 | 3340 | F202_33.1 S1 M1LA4 | 420 | F202_33.1 P80 BN80A4 | 421 |
| 43 | 116 | 3.4 | 32.2 | 4730 | F252_32.2 S1 M1LA4 | 424 | F252_32.2 P80 BN80A4 | 425 |
| 45 | 110 | 2.3 | 30.4 | 3260 | F202_30.4 S1 M1LA4 | 420 | F202_30.4 P80 BN80A4 | 421 |
| 47 | 107 | 1.3 | 29.6 | 2680 | F102_29.6 S1 M1LA4 | 416 | F102_29.6 P80 BN80A4 | 417 |
| 53 | 94 | 2.6 | 25.9 | 3130 | F202_25.9 S1 M1LA4 | 420 | F202_25.9 P80 BN80A4 | 421 |
| 54 | 93 | 1.5 | 25.8 | 2590 | F102_25.8 S1 M1LA4 | 416 | F102_25.8 P80 BN80A4 | 417 |
| 60 | 83 | 1.7 | 22.8 | 2510 | F102_22.8 S1 M1LA4 | 416 | F102_22.8 P80 BN80A4 | 417 |
| 60 | 84 | 2.8 | 23.1 | 3030 | F202_23.1 S1 M1LA4 | 420 | F202_23.1 P80 BN80A4 | 421 |
| 68 | 73 | 3.1 | 20.2 | 2910 | F202_20.2 S1 M1LA4 | 420 | F202_20.2 P80 BN80A4 | 421 |
| 71 | 70 | 1.9 | 19.3 | 2400 | F102_19.3 S1 M1LA4 | 416 | F102_19.3 P80 BN80A4 | 417 |

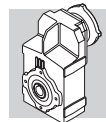


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

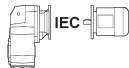

| n ₂ | M ₂ | S | i | R _{n2} |  |  |  | |
|----------------|----------------|-----|------|-----------------|---|--|---|-----|
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| 81 | 61 | 2.1 | 17.0 | 2310 | F102_17.0 S1 M1LA4 | 416 | F102_17.0 P80 BN80A4 | 417 |
| 94 | 53 | 2.2 | 14.6 | 2220 | F102_14.6 S1 M1LA4 | 416 | F102_14.6 P80 BN80A4 | 417 |
| 106 | 47 | 2.2 | 13.0 | 2140 | F102_13.0 S1 M1LA4 | 416 | F102_13.0 P80 BN80A4 | 417 |
| 120 | 42 | 2.3 | 11.5 | 2070 | F102_11.5 S1 M1LA4 | 416 | F102_11.5 P80 BN80A4 | 417 |
| 141 | 35 | 2.5 | 9.8 | 1970 | F102_9.8 S1 M1LA4 | 416 | F102_9.8 P80 BN80A4 | 417 |
| 161 | 31 | 2.6 | 8.6 | 1890 | F102_8.6 S1 M1LA4 | 416 | F102_8.6 P80 BN80A4 | 417 |
| 186 | 27 | 2.8 | 7.4 | 1810 | F102_7.4 S1 M1LA4 | 416 | F102_7.4 P80 BN80A4 | 417 |
| 193 | 26 | 3.6 | 14.6 | 1800 | F102_14.6 S1 M1SD2 | 416 | F102_14.6 P71 BN71B2 | 417 |
| 216 | 23 | 3.7 | 13.0 | 1730 | F102_13.0 S1 M1SD2 | 416 | F102_13.0 P71 BN71B2 | 417 |
| 244 | 20 | 3.8 | 11.5 | 1670 | F102_11.5 S1 M1SD2 | 416 | F102_11.5 P71 BN71B2 | 417 |
| 289 | 17 | 4.2 | 9.8 | 1590 | F102_9.8 S1 M1SD2 | 416 | F102_9.8 P71 BN71B2 | 417 |
| 329 | 15 | 4.4 | 8.6 | 1530 | F102_8.6 S1 M1SD2 | 416 | F102_8.6 P71 BN71B2 | 417 |
| 381 | 13 | 4.8 | 7.4 | 1460 | F102_7.4 S1 M1SD2 | 416 | F102_7.4 P71 BN71B2 | 417 |

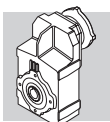
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| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|--|---|--|--|
| 0.44 | 14876 | 0.9 | 2099 | 55000 | F904_2099 S2 M2SB6 | 450 | F904_2099 P90 BN90S6 | 451 |
| 0.47 | 13732 | 1.0 | 1937 | 55000 | F904_1937 S2 M2SB6 | 450 | F904_1937 P90 BN90S6 | 451 |
| 0.54 | 12067 | 1.2 | 1702 | 55000 | F904_1702 S2 M2SB6 | 450 | F904_1702 P90 BN90S6 | 451 |
| 0.59 | 11138 | 1.3 | 1571 | 55000 | F904_1571 S2 M2SB6 | 450 | F904_1571 P90 BN90S6 | 451 |
| 0.64 | 10121 | 1.4 | 1428 | 55000 | F904_1428 S2 M2SB6 | 450 | F904_1428 P90 BN90S6 | 451 |
| 0.67 | 9776 | 1.4 | 2099 | 55000 | F904_2099 S2 M2SA4 | 450 | F904_2099 P80 BN80B4 | 451 |
| 0.70 | 9255 | 0.9 | 1987 | 45000 | F804_1987 S2 M2SA4 | 447 | F804_1987 P80 BN80B4 | 448 |
| 0.72 | 9024 | 1.6 | 1937 | 55000 | F904_1937 S2 M2SA4 | 450 | F904_1937 P80 BN80B4 | 451 |
| 0.76 | 8543 | 0.9 | 1834 | 45000 | F804_1834 S2 M2SA4 | 447 | F804_1834 P80 BN80B4 | 448 |
| 0.82 | 7961 | 1.0 | 1709 | 45000 | F804_1709 S2 M2SA4 | 447 | F804_1709 P80 BN80B4 | 448 |
| 0.82 | 7930 | 1.8 | 1702 | 55000 | F904_1702 S2 M2SA4 | 450 | F904_1702 P80 BN80B4 | 451 |
| 0.89 | 7349 | 1.1 | 1578 | 45000 | F804_1578 S2 M2SA4 | 447 | F804_1578 P80 BN80B4 | 448 |
| 0.89 | 7320 | 1.9 | 1571 | 55000 | F904_1571 S2 M2SA4 | 450 | F904_1571 P80 BN80B4 | 451 |
| 0.98 | 6651 | 2.1 | 1428 | 55000 | F904_1428 S2 M2SA4 | 450 | F904_1428 P80 BN80B4 | 451 |
| 1.0 | 6446 | 1.2 | 1384 | 45000 | F804_1384 S2 M2SA4 | 447 | F804_1384 P80 BN80B4 | 448 |
| 1.1 | 5950 | 1.3 | 1277 | 45000 | F804_1277 S2 M2SA4 | 447 | F804_1277 P80 BN80B4 | 448 |
| 1.1 | 6140 | 2.3 | 1318 | 55000 | F904_1318 S2 M2SA4 | 450 | F904_1318 P80 BN80B4 | 451 |
| 1.2 | 5505 | 0.9 | 1182 | 35000 | F704_1182 S2 M2SA4 | 444 | F704_1182 P80 BN80B4 | 445 |
| 1.2 | 5339 | 1.5 | 1146 | 45000 | F804_1146 S2 M2SA4 | 447 | F804_1146 P80 BN80B4 | 448 |
| 1.2 | 5613 | 2.5 | 1205 | 55000 | F904_1205 S2 M2SA4 | 450 | F904_1205 P80 BN80B4 | 451 |
| 1.3 | 5082 | 1.0 | 1091 | 35000 | F704_1091 S2 M2SA4 | 444 | F704_1091 P80 BN80B4 | 445 |
| 1.3 | 4929 | 1.6 | 1058 | 45000 | F804_1058 S2 M2SA4 | 447 | F804_1058 P80 BN80B4 | 448 |
| 1.3 | 5181 | 2.7 | 1112 | 55000 | F904_1112 S2 M2SA4 | 450 | F904_1112 P80 BN80B4 | 451 |
| 1.4 | 4539 | 1.1 | 974.4 | 35000 | F704_974.4 S2 M2SA4 | 444 | F704_974.4 P80 BN80B4 | 445 |
| 1.5 | 4240 | 3.3 | 910.2 | 55000 | F904_910.2 S2 M2SA4 | 450 | F904_910.2 P80 BN80B4 | 451 |
| 1.6 | 4190 | 1.2 | 899.4 | 35000 | F704_899.4 S2 M2SA4 | 444 | F704_899.4 P80 BN80B4 | 445 |
| 1.6 | 4180 | 1.9 | 897.3 | 45000 | F804_897.3 S2 M2SA4 | 447 | F804_897.3 P80 BN80B4 | 448 |
| 1.7 | 3830 | 1.3 | 822.2 | 35000 | F704_822.2 S2 M2SA4 | 444 | F704_822.2 P80 BN80B4 | 445 |
| 1.8 | 3607 | 2.2 | 774.4 | 45000 | F804_774.4 S2 M2SA4 | 447 | F804_774.4 P80 BN80B4 | 448 |
| 2.0 | 3330 | 2.4 | 714.9 | 45000 | F804_714.9 S2 M2SA4 | 447 | F804_714.9 P80 BN80B4 | 448 |



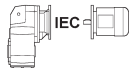



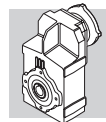
0.75 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 2.1 | 3085 | 0.9 | 662.4 | 20000 | F604_662.4 S2 M2SA4 | 440 | F604_662.4 P80 BN80B4 | 441 |
| 2.1 | 3062 | 1.6 | 657.4 | 35000 | F704_657.4 S2 M2SA4 | 444 | F704_657.4 P80 BN80B4 | 445 |
| 2.3 | 2848 | 1.0 | 611.4 | 20000 | F604_611.4 S2 M2SA4 | 440 | F604_611.4 P80 BN80B4 | 441 |
| 2.3 | 2827 | 1.8 | 606.8 | 35000 | F704_606.8 S2 M2SA4 | 444 | F704_606.8 P80 BN80B4 | 445 |
| 2.3 | 2845 | 2.8 | 610.9 | 45000 | F804_610.9 S2 M2SA4 | 447 | F804_610.9 P80 BN80B4 | 448 |
| 2.5 | 2627 | 3.0 | 563.9 | 45000 | F804_563.9 S2 M2SA4 | 447 | F804_563.9 P80 BN80B4 | 448 |
| 2.6 | 2472 | 1.2 | 530.7 | 20000 | F604_530.7 S2 M2SA4 | 440 | F604_530.7 P80 BN80B4 | 441 |
| 2.7 | 2378 | 2.1 | 510.4 | 35000 | F704_510.4 S2 M2SA4 | 444 | F704_510.4 P80 BN80B4 | 445 |
| 2.9 | 2282 | 1.3 | 489.8 | 20000 | F604_489.8 S2 M2SA4 | 440 | F604_489.8 P80 BN80B4 | 441 |
| 2.9 | 2278 | 3.5 | 489.1 | 45000 | F804_489.1 S2 M2SA4 | 447 | F804_489.1 P80 BN80B4 | 448 |
| 3.0 | 2195 | 2.3 | 471.2 | 35000 | F704_471.2 S2 M2SA4 | 444 | F704_471.2 P80 BN80B4 | 445 |
| 3.2 | 2015 | 1.4 | 432.6 | 20000 | F604_432.6 S2 M2SA4 | 440 | F604_432.6 P80 BN80B4 | 441 |
| 3.3 | 1999 | 0.9 | 429.1 | 12000 | F514_429.1 S2 M2SA4 | 436 | F514_429.1 P80 BN80B4 | 437 |
| 3.5 | 1860 | 1.6 | 399.3 | 20000 | F604_399.3 S2 M2SA4 | 440 | F604_399.3 P80 BN80B4 | 441 |
| 3.5 | 1880 | 2.7 | 403.5 | 35000 | F704_403.5 S2 M2SA4 | 444 | F704_403.5 P80 BN80B4 | 445 |
| 3.8 | 1735 | 2.9 | 372.5 | 35000 | F704_372.5 S2 M2SA4 | 444 | F704_372.5 P80 BN80B4 | 445 |
| 4.0 | 1678 | 1.1 | 352.5 | 12000 | F513_352.5 S2 M2SA4 | 436 | F513_352.5 P80 BN80B4 | 437 |
| 4.1 | 1592 | 1.8 | 341.7 | 20000 | F604_341.7 S2 M2SA4 | 440 | F604_341.7 P80 BN80B4 | 441 |
| 4.4 | 1510 | 1.2 | 317.3 | 12000 | F513_317.3 S2 M2SA4 | 436 | F513_317.3 P80 BN80B4 | 437 |
| 4.4 | 1469 | 2.0 | 315.4 | 20000 | F604_315.4 S2 M2SA4 | 440 | F604_315.4 P80 BN80B4 | 441 |
| 4.6 | 1418 | 3.5 | 304.3 | 35000 | F704_304.3 S2 M2SA4 | 444 | F704_304.3 P80 BN80B4 | 445 |
| 4.9 | 1361 | 1.3 | 285.9 | 12000 | F513_285.9 S2 M2SA4 | 436 | F513_285.9 P80 BN80B4 | 437 |
| 5.0 | 1335 | 2.2 | 280.7 | 20000 | F603_280.7 S2 M2SA4 | 440 | F603_280.7 P80 BN80B4 | 441 |
| 5.3 | 1248 | 1.4 | 262.1 | 12000 | F513_262.1 S2 M2SA4 | 436 | F513_262.1 P80 BN80B4 | 437 |
| 5.4 | 1233 | 2.4 | 259.1 | 20000 | F603_259.1 S2 M2SA4 | 440 | F603_259.1 P80 BN80B4 | 441 |
| 5.8 | 1143 | 1.0 | 240.1 | 8500 | F413_240.1 S2 M2SA4 | 432 | F413_240.1 P80 BN80B4 | 433 |
| 5.8 | 1142 | 1.6 | 239.8 | 12000 | F513_239.8 S2 M2SA4 | 436 | F513_239.8 P80 BN80B4 | 437 |
| 5.9 | 1122 | 2.6 | 235.8 | 20000 | F603_235.8 S2 M2SA4 | 440 | F603_235.8 P80 BN80B4 | 441 |
| 6.4 | 1048 | 1.0 | 220.1 | 8500 | F413_220.1 S2 M2SA4 | 432 | F413_220.1 P80 BN80B4 | 433 |
| 6.4 | 1036 | 2.8 | 217.6 | 20000 | F603_217.6 S2 M2SA4 | 440 | F603_217.6 P80 BN80B4 | 441 |
| 6.5 | 1032 | 1.7 | 216.9 | 12000 | F513_216.9 S2 M2SA4 | 436 | F513_216.9 P80 BN80B4 | 437 |
| 6.9 | 963 | 1.9 | 202.4 | 12000 | F513_202.4 S2 M2SA4 | 436 | F513_202.4 P80 BN80B4 | 437 |
| 7.0 | 958 | 3.0 | 201.4 | 20000 | F603_201.4 S2 M2SA4 | 440 | F603_201.4 P80 BN80B4 | 441 |
| 7.0 | 947 | 1.2 | 198.9 | 8500 | F413_198.9 S2 M2SA4 | 432 | F413_198.9 P80 BN80B4 | 433 |
| 7.5 | 885 | 3.3 | 185.9 | 20000 | F603_185.9 S2 M2SA4 | 440 | F603_185.9 P80 BN80B4 | 441 |
| 7.7 | 860 | 1.3 | 180.7 | 8500 | F413_180.7 S2 M2SA4 | 432 | F413_180.7 P80 BN80B4 | 433 |
| 8.3 | 803 | 1.4 | 168.7 | 8500 | F413_168.7 S2 M2SA4 | 432 | F413_168.7 P80 BN80B4 | 433 |
| 8.5 | 788 | 2.3 | 165.6 | 12000 | F513_165.6 S2 M2SA4 | 436 | F513_165.6 P80 BN80B4 | 437 |
| 8.6 | 775 | 3.7 | 162.9 | 20000 | F603_162.9 S2 M2SA4 | 440 | F603_162.9 P80 BN80B4 | 441 |
| 10.4 | 640 | 1.7 | 134.4 | 8500 | F413_134.4 S2 M2SA4 | 432 | F413_134.4 P80 BN80B4 | 433 |
| 10.8 | 618 | 2.9 | 129.9 | 12000 | F513_129.9 S2 M2SA4 | 436 | F513_129.9 P80 BN80B4 | 437 |
| 10.9 | 611 | 1.0 | 128.4 | 6500 | F313_128.4 S2 M2SA4 | 428 | F313_128.4 P80 BN80B4 | 429 |
| 12.4 | 536 | 1.1 | 112.5 | 6500 | F313_112.5 S2 M2SA4 | 428 | F313_112.5 P80 BN80B4 | 429 |
| 13.2 | 505 | 2.2 | 106.0 | 8500 | F413_106.0 S2 M2SA4 | 432 | F413_106.0 P80 BN80B4 | 433 |
| 13.7 | 485 | 1.2 | 101.9 | 6500 | F313_101.9 S2 M2SA4 | 428 | F313_101.9 P80 BN80B4 | 429 |
| 16.0 | 416 | 1.4 | 87.4 | 6500 | F313_87.4 S2 M2SA4 | 428 | F313_87.4 P80 BN80B4 | 429 |
| 16.5 | 404 | 2.7 | 84.9 | 8500 | F413_84.9 S2 M2SA4 | 432 | F413_84.9 P80 BN80B4 | 433 |
| 16.8 | 397 | 1.0 | 83.4 | 5350 | F253_83.4 S2 M2SA4 | 424 | F253_83.4 P80 BN80B4 | 425 |
| 17.8 | 375 | 1.6 | 78.9 | 6500 | F313_78.9 S2 M2SA4 | 428 | F313_78.9 P80 BN80B4 | 429 |
| 18.3 | 365 | 1.1 | 76.6 | 5300 | F253_76.6 S2 M2SA4 | 424 | F253_76.6 P80 BN80B4 | 425 |
| 20.3 | 329 | 1.8 | 69.1 | 6500 | F313_69.1 S2 M2SA4 | 428 | F313_69.1 P80 BN80B4 | 429 |



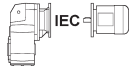



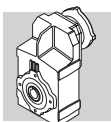
0.75 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 21.1 | 317 | 3.5 | 66.5 | 8500 | F413_66.5 S2 M2SA4 | 432 | F413_66.5 P80 BN80B4 | 433 |
| 21.4 | 311 | 1.3 | 65.3 | 5180 | F253_65.3 S2 M2SA4 | 424 | F253_65.3 P80 BN80B4 | 425 |
| 22.3 | 299 | 2.0 | 62.8 | 6500 | F313_62.8 S2 M2SA4 | 428 | F313_62.8 P80 BN80B4 | 429 |
| 24.0 | 278 | 1.4 | 58.3 | 5080 | F253_58.3 S2 M2SA4 | 424 | F253_58.3 P80 BN80B4 | 425 |
| 24.7 | 276 | 0.9 | 56.7 | 3590 | F202_56.7 S2 M2SA4 | 420 | F202_56.7 P80 BN80B4 | 421 |
| 26.9 | 248 | 2.4 | 52.1 | 6500 | F313_52.1 S2 M2SA4 | 428 | F313_52.1 P80 BN80B4 | 429 |
| 27.6 | 247 | 1.0 | 50.7 | 3510 | F202_50.7 S2 M2SA4 | 420 | F202_50.7 P80 BN80B4 | 421 |
| 27.6 | 242 | 1.7 | 50.8 | 4960 | F253_50.8 S2 M2SA4 | 424 | F253_50.8 P80 BN80B4 | 425 |
| 29.4 | 226 | 2.6 | 47.5 | 6500 | F313_47.5 S2 M2SA4 | 428 | F313_47.5 P80 BN80B4 | 429 |
| 31 | 218 | 1.1 | 44.8 | 3420 | F202_44.8 S2 M2SA4 | 420 | F202_44.8 P80 BN80B4 | 421 |
| 31 | 217 | 1.8 | 45.6 | 4860 | F253_45.6 S2 M2SA4 | 424 | F253_45.6 P80 BN80B4 | 425 |
| 31 | 217 | 2.8 | 44.6 | 6500 | F312_44.6 S2 M2SA4 | 428 | F312_44.6 P80 BN80B4 | 429 |
| 32 | 216 | 1.8 | 44.4 | 4890 | F252_44.4 S2 M2SA4 | 424 | F252_44.4 P80 BN80B4 | 425 |
| 33 | 203 | 1.2 | 41.8 | 3370 | F202_41.8 S2 M2SA4 | 420 | F202_41.8 P80 BN80B4 | 421 |
| 34 | 198 | 1.9 | 40.7 | 4790 | F252_40.7 S2 M2SA4 | 424 | F252_40.7 P80 BN80B4 | 425 |
| 35 | 196 | 3.1 | 40.4 | 6500 | F312_40.4 S2 M2SA4 | 428 | F312_40.4 P80 BN80B4 | 429 |
| 37 | 184 | 1.4 | 37.9 | 3300 | F202_37.9 S2 M2SA4 | 420 | F202_37.9 P80 BN80B4 | 421 |
| 37 | 183 | 3.3 | 37.7 | 6500 | F312_37.7 S2 M2SA4 | 428 | F312_37.7 P80 BN80B4 | 429 |
| 38 | 177 | 2.3 | 36.4 | 4680 | F252_36.4 S2 M2SA4 | 424 | F252_36.4 P80 BN80B4 | 425 |
| 42 | 161 | 1.6 | 33.1 | 3200 | F202_33.1 S2 M2SA4 | 420 | F202_33.1 P80 BN80B4 | 421 |
| 44 | 156 | 2.6 | 32.2 | 4540 | F252_32.2 S2 M2SA4 | 424 | F252_32.2 P80 BN80B4 | 425 |
| 46 | 148 | 1.7 | 30.4 | 3140 | F202_30.4 S2 M2SA4 | 420 | F202_30.4 P80 BN80B4 | 421 |
| 47 | 144 | 1.0 | 29.6 | 2550 | F102_29.6 S2 M2SA4 | 416 | F102_29.6 P80 BN80B4 | 417 |
| 47 | 146 | 2.7 | 30.0 | 4470 | F252_30.0 S2 M2SA4 | 424 | F252_30.0 P80 BN80B4 | 425 |
| 51 | 132 | 3 | 27.2 | 4360 | F252_27.2 S2 M2SA4 | 424 | F252_27.2 P80 BN80B4 | 425 |
| 54 | 125 | 1.1 | 25.8 | 2470 | F102_25.8 S2 M2SA4 | 416 | F102_25.8 P80 BN80B4 | 417 |
| 54 | 126 | 1.9 | 25.9 | 3020 | F202_25.9 S2 M2SA4 | 420 | F202_25.9 P80 BN80B4 | 421 |
| 59 | 116 | 3.5 | 23.8 | 4210 | F252_23.8 S2 M2SA4 | 424 | F252_23.8 P80 BN80B4 | 425 |
| 60 | 113 | 2.1 | 23.1 | 2930 | F202_23.1 S2 M2SA4 | 420 | F202_23.1 P80 BN80B4 | 421 |
| 61 | 111 | 1.3 | 22.8 | 2400 | F102_22.8 S2 M2SA4 | 416 | F102_22.8 P80 BN80B4 | 417 |
| 69 | 98 | 2.3 | 20.2 | 2830 | F202_20.2 S2 M2SA4 | 420 | F202_20.2 P80 BN80B4 | 421 |
| 72 | 94 | 1.4 | 19.3 | 2310 | F102_19.3 S2 M2SA4 | 416 | F102_19.3 P80 BN80B4 | 417 |
| 77 | 88 | 2.4 | 18.1 | 2740 | F202_18.1 S2 M2SA4 | 420 | F202_18.1 P80 BN80B4 | 421 |
| 82 | 83 | 1.6 | 17.0 | 2230 | F102_17.0 S2 M2SA4 | 416 | F102_17.0 P80 BN80B4 | 417 |
| 95 | 72 | 2.8 | 14.8 | 2600 | F202_14.8 S2 M2SA4 | 420 | F202_14.8 P80 BN80B4 | 421 |
| 96 | 71 | 1.7 | 14.6 | 2150 | F102_14.6 S2 M2SA4 | 416 | F102_14.6 P80 BN80B4 | 417 |
| 107 | 63 | 1.6 | 13.0 | 2070 | F102_13.0 S2 M2SA4 | 416 | F102_13.0 P80 BN80B4 | 417 |
| 121 | 56 | 1.7 | 11.5 | 2010 | F102_11.5 S2 M2SA4 | 416 | F102_11.5 P80 BN80B4 | 417 |
| 125 | 55 | 3.2 | 11.2 | 2390 | F202_11.2 S2 M2SA4 | 420 | F202_11.2 P80 BN80B4 | 421 |
| 143 | 48 | 1.9 | 9.8 | 1920 | F102_9.8 S2 M2SA4 | 416 | F102_9.8 P80 BN80B4 | 417 |
| 163 | 42 | 2.0 | 8.6 | 1850 | F102_8.6 S2 M2SA4 | 416 | F102_8.6 P80 BN80B4 | 417 |
| 189 | 36 | 2.1 | 7.4 | 1770 | F102_7.4 S2 M2SA4 | 416 | F102_7.4 P80 BN80B4 | 417 |
| 192 | 35 | 2.6 | 14.6 | 1770 | F102_14.6 S1 M1LA2 | 416 | F102_14.6 P80 BN80A2 | 417 |
| 216 | 32 | 2.7 | 13.0 | 1710 | F102_13.0 S1 M1LA2 | 416 | F102_13.0 P80 BN80A2 | 417 |
| 244 | 28 | 2.8 | 11.5 | 1650 | F102_11.5 S1 M1LA2 | 416 | F102_11.5 P80 BN80A2 | 417 |
| 288 | 24 | 3.1 | 9.8 | 1570 | F102_9.8 S1 M1LA2 | 416 | F102_9.8 P80 BN80A2 | 417 |
| 327 | 21 | 3.2 | 8.6 | 1510 | F102_8.6 S1 M1LA2 | 416 | F102_8.6 P80 BN80A2 | 417 |
| 380 | 18 | 3.5 | 7.4 | 1440 | F102_7.4 S1 M1LA2 | 416 | F102_7.4 P80 BN80A2 | 417 |



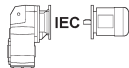



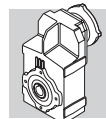
1.1 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 0.59 | 16336 | 0.9 | 1571 | 55000 | F904_1571 S3 M3SA6 | 450 | F904_1571 P90 BN90L6 | 451 |
| 0.64 | 14845 | 0.9 | 1428 | 55000 | F904_1428 S3 M3SA6 | 450 | F904_1428 P90 BN90L6 | 451 |
| 0.67 | 14338 | 1.0 | 2099 | 55000 | F904_2099 S2 M2SB4 | 450 | F904_2099 P90 BN90S4 | 451 |
| 0.72 | 13235 | 1.1 | 1937 | 55000 | F904_1937 S2 M2SB4 | 450 | F904_1937 P90 BN90S4 | 451 |
| 0.82 | 11630 | 1.2 | 1702 | 55000 | F904_1702 S2 M2SB4 | 450 | F904_1702 P90 BN90S4 | 451 |
| 0.89 | 10735 | 1.3 | 1571 | 55000 | F904_1571 S2 M2SB4 | 450 | F904_1571 P90 BN90S4 | 451 |
| 0.98 | 9755 | 1.4 | 1428 | 55000 | F904_1428 S2 M2SB4 | 450 | F904_1428 P90 BN90S4 | 451 |
| 1.1 | 8727 | 0.9 | 1277 | 45000 | F804_1277 S2 M2SB4 | 447 | F804_1277 P90 BN90S4 | 448 |
| 1.1 | 9005 | 1.6 | 1318 | 55000 | F904_1318 S2 M2SB4 | 450 | F904_1318 P90 BN90S4 | 451 |
| 1.2 | 7831 | 1.0 | 1146 | 45000 | F804_1146 S2 M2SB4 | 447 | F804_1146 P90 BN90S4 | 448 |
| 1.2 | 8232 | 1.7 | 1205 | 55000 | F904_1205 S2 M2SB4 | 450 | F904_1205 P90 BN90S4 | 451 |
| 1.3 | 7229 | 1.1 | 1058 | 45000 | F804_1058 S2 M2SB4 | 447 | F804_1058 P90 BN90S4 | 448 |
| 1.3 | 7599 | 1.8 | 1112 | 55000 | F904_1112 S2 M2SB4 | 450 | F904_1112 P90 BN90S4 | 451 |
| 1.5 | 6218 | 2.3 | 910.2 | 55000 | F904_910.2 S2 M2SB4 | 450 | F904_910.2 P90 BN90S4 | 451 |
| 1.6 | 6130 | 1.3 | 897.3 | 45000 | F804_897.3 S2 M2SB4 | 447 | F804_897.3 P90 BN90S4 | 448 |
| 1.7 | 5617 | 0.9 | 822.2 | 35000 | F704_822.2 S2 M2SB4 | 444 | F704_822.2 P90 BN90S4 | 445 |
| 1.8 | 5291 | 1.5 | 774.4 | 45000 | F804_774.4 S2 M2SB4 | 447 | F804_774.4 P90 BN90S4 | 448 |
| 1.8 | 5284 | 2.6 | 773.4 | 55000 | F904_773.4 S2 M2SB4 | 450 | F904_773.4 P90 BN90S4 | 451 |
| 1.9 | 5085 | 1.6 | 489.1 | 45000 | F804_489.1 S3 M3SA6 | 447 | F804_489.1 P90 BN90L6 | 448 |
| 1.9 | 5152 | 2.7 | 495.6 | 55000 | F904_495.6 S3 M3SA6 | 450 | F904_495.6 P90 BN90L6 | 451 |
| 2.0 | 4898 | 1.0 | 471.2 | 35000 | F704_471.2 S3 M3SA6 | 444 | F704_471.2 P90 BN90L6 | 445 |
| 2.0 | 4694 | 1.7 | 451.5 | 45000 | F804_451.5 S3 M3SA6 | 447 | F804_451.5 P90 BN90L6 | 448 |
| 2.0 | 4884 | 1.6 | 714.9 | 45000 | F804_714.9 S2 M2SB4 | 447 | F804_714.9 P90 BN90S4 | 448 |
| 2.1 | 4491 | 1.1 | 657.4 | 35000 | F704_657.4 S2 M2SB4 | 444 | F704_657.4 P90 BN90S4 | 445 |
| 2.2 | 4274 | 3.3 | 625.6 | 55000 | F904_625.6 S2 M2SB4 | 450 | F904_625.6 P90 BN90S4 | 451 |
| 2.3 | 4146 | 1.2 | 606.8 | 35000 | F704_606.8 S2 M2SB4 | 444 | F704_606.8 P90 BN90S4 | 445 |
| 2.3 | 4173 | 1.9 | 610.9 | 45000 | F804_610.9 S2 M2SB4 | 447 | F804_610.9 P90 BN90S4 | 448 |
| 2.4 | 3945 | 3.5 | 577.5 | 55000 | F904_577.5 S2 M2SB4 | 450 | F904_577.5 P90 BN90S4 | 451 |
| 2.5 | 3852 | 2.1 | 563.9 | 45000 | F804_563.9 S2 M2SB4 | 447 | F804_563.9 P90 BN90S4 | 448 |
| 2.7 | 3487 | 1.4 | 510.4 | 35000 | F704_510.4 S2 M2SB4 | 444 | F704_510.4 P90 BN90S4 | 445 |
| 2.9 | 3347 | 0.9 | 489.8 | 20000 | F604_489.8 S2 M2SB4 | 440 | F604_489.8 P90 BN90S4 | 441 |
| 2.9 | 3342 | 2.4 | 489.1 | 45000 | F804_489.1 S2 M2SB4 | 447 | F804_489.1 P90 BN90S4 | 448 |
| 3.0 | 3219 | 1.6 | 471.2 | 35000 | F704_471.2 S2 M2SB4 | 444 | F704_471.2 P90 BN90S4 | 445 |
| 3.1 | 3085 | 2.6 | 451.5 | 45000 | F804_451.5 S2 M2SB4 | 447 | F804_451.5 P90 BN90S4 | 448 |
| 3.2 | 2956 | 1.0 | 432.6 | 20000 | F604_432.6 S2 M2SB4 | 440 | F604_432.6 P90 BN90S4 | 441 |
| 3.5 | 2728 | 1.1 | 399.3 | 20000 | F604_399.3 S2 M2SB4 | 440 | F604_399.3 P90 BN90S4 | 441 |
| 3.5 | 2757 | 1.8 | 403.5 | 35000 | F704_403.5 S2 M2SB4 | 444 | F704_403.5 P90 BN90S4 | 445 |
| 3.7 | 2618 | 3.1 | 383.2 | 45000 | F804_383.2 S2 M2SB4 | 447 | F804_383.2 P90 BN90S4 | 448 |
| 3.8 | 2545 | 2.0 | 372.5 | 35000 | F704_372.5 S2 M2SB4 | 444 | F704_372.5 P90 BN90S4 | 445 |
| 4.0 | 2416 | 3.3 | 353.7 | 45000 | F804_353.7 S2 M2SB4 | 447 | F804_353.7 P90 BN90S4 | 448 |
| 4.1 | 2334 | 1.2 | 341.7 | 20000 | F604_341.7 S2 M2SB4 | 440 | F604_341.7 P90 BN90S4 | 441 |
| 4.4 | 2155 | 1.3 | 315.4 | 20000 | F604_315.4 S2 M2SB4 | 440 | F604_315.4 P90 BN90S4 | 441 |
| 4.6 | 2079 | 2.4 | 304.3 | 35000 | F704_304.3 S2 M2SB4 | 444 | F704_304.3 P90 BN90S4 | 445 |
| 4.9 | 1996 | 0.9 | 285.9 | 12000 | F513_285.9 S2 M2SB4 | 436 | F513_285.9 P90 BN90S4 | 437 |
| 5.0 | 1960 | 1.5 | 280.7 | 20000 | F603_280.7 S2 M2SB4 | 440 | F603_280.7 P90 BN90S4 | 441 |
| 5.0 | 1919 | 2.6 | 280.9 | 35000 | F704_280.9 S2 M2SB4 | 444 | F704_280.9 P90 BN90S4 | 445 |
| 5.3 | 1830 | 1.0 | 262.1 | 12000 | F513_262.1 S2 M2SB4 | 436 | F513_262.1 P90 BN90S4 | 437 |
| 5.8 | 1675 | 1.1 | 239.8 | 12000 | F513_239.8 S2 M2SB4 | 436 | F513_239.8 P90 BN90S4 | 437 |
| 6.0 | 1603 | 3.1 | 234.6 | 35000 | F704_234.6 S2 M2SB4 | 444 | F704_234.6 P90 BN90S4 | 445 |
| 6.5 | 1514 | 1.2 | 216.9 | 12000 | F513_216.9 S2 M2SB4 | 436 | F513_216.9 P90 BN90S4 | 437 |
| 6.5 | 1479 | 3.4 | 216.5 | 35000 | F704_216.5 S2 M2SB4 | 444 | F704_216.5 P90 BN90S4 | 445 |



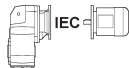



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

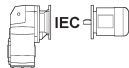

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 6.9 | 1413 | 1.3 | 202.4 | 12000 | F513_202.4 S2 M2SB4 | 436 | F513_202.4 P90 BN90S4 | 437 |
| 8.3 | 1178 | 0.9 | 168.7 | 8500 | F413_168.7 S2 M2SB4 | 432 | F413_168.7 P90 BN90S4 | 433 |
| 8.5 | 1156 | 1.6 | 165.6 | 12000 | F513_165.6 S2 M2SB4 | 436 | F513_165.6 P90 BN90S4 | 437 |
| 10.4 | 938 | 1.2 | 134.4 | 8500 | F413_134.4 S2 M2SB4 | 432 | F413_134.4 P90 BN90S4 | 433 |
| 10.8 | 907 | 2.0 | 129.9 | 12000 | F513_129.9 S2 M2SB4 | 436 | F513_129.9 P90 BN90S4 | 437 |
| 13.2 | 740 | 1.5 | 106.0 | 8500 | F413_106.0 S2 M2SB4 | 432 | F413_106.0 P90 BN90S4 | 433 |
| 13.3 | 734 | 2.5 | 105.1 | 12000 | F513_105.1 S2 M2SB4 | 436 | F513_105.1 P90 BN90S4 | 437 |
| 16.0 | 610 | 1.0 | 87.4 | 6500 | F313_87.4 S2 M2SB4 | 428 | F313_87.4 P90 BN90S4 | 429 |
| 16.5 | 593 | 1.9 | 84.9 | 8500 | F413_84.9 S2 M2SB4 | 432 | F413_84.9 P90 BN90S4 | 433 |
| 16.8 | 581 | 3.1 | 83.2 | 12000 | F513_83.2 S2 M2SB4 | 436 | F513_83.2 P90 BN90S4 | 437 |
| 17.8 | 551 | 1.1 | 78.9 | 6500 | F313_78.9 S2 M2SB4 | 428 | F313_78.9 P90 BN90S4 | 429 |
| 20.3 | 482 | 1.2 | 69.1 | 6500 | F313_69.1 S2 M2SB4 | 428 | F313_69.1 P90 BN90S4 | 429 |
| 21.1 | 464 | 2.4 | 66.5 | 8500 | F413_66.5 S2 M2SB4 | 432 | F413_66.5 P90 BN90S4 | 433 |
| 22.3 | 438 | 1.4 | 62.8 | 6500 | F313_62.8 S2 M2SB4 | 428 | F313_62.8 P90 BN90S4 | 429 |
| 23.2 | 421 | 2.6 | 60.2 | 8500 | F413_60.2 S2 M2SB4 | 432 | F413_60.2 P90 BN90S4 | 433 |
| 24.0 | 407 | 1.0 | 58.3 | 4500 | F253_58.3 S2 M2SB4 | 424 | F253_58.3 P90 BN90S4 | 425 |
| 26.9 | 364 | 1.6 | 52.1 | 6500 | F313_52.1 S2 M2SB4 | 428 | F313_52.1 P90 BN90S4 | 429 |
| 27.2 | 360 | 3.0 | 51.5 | 8500 | F413_51.5 S2 M2SB4 | 432 | F413_51.5 P90 BN90S4 | 433 |
| 27.6 | 355 | 1.1 | 50.8 | 4450 | F253_50.8 S2 M2SB4 | 424 | F253_50.8 P90 BN90S4 | 425 |
| 29.2 | 342 | 3.1 | 47.9 | 8500 | F412_47.9 S2 M2SB4 | 432 | F412_47.9 P90 BN90S4 | 433 |
| 29.4 | 332 | 1.7 | 47.5 | 6500 | F313_47.5 S2 M2SB4 | 428 | F313_47.5 P90 BN90S4 | 429 |
| 31 | 318 | 1.3 | 45.6 | 4400 | F253_45.6 S2 M2SB4 | 424 | F253_45.6 P90 BN90S4 | 425 |
| 31 | 318 | 1.9 | 44.6 | 6500 | F312_44.6 S2 M2SB4 | 428 | F312_44.6 P90 BN90S4 | 429 |
| 32 | 317 | 1.2 | 44.4 | 4470 | F252_44.4 S2 M2SB4 | 424 | F252_44.4 P90 BN90S4 | 425 |
| 34 | 290 | 1.3 | 40.7 | 4410 | F252_40.7 S2 M2SB4 | 424 | F252_40.7 P90 BN90S4 | 425 |
| 35 | 288 | 2.1 | 40.4 | 6500 | F312_40.4 S2 M2SB4 | 428 | F312_40.4 P90 BN90S4 | 429 |
| 37 | 270 | 0.9 | 37.9 | 3050 | F202_37.9 S2 M2SB4 | 420 | F202_37.9 P90 BN90S4 | 421 |
| 37 | 269 | 2.2 | 37.7 | 6500 | F312_37.7 S2 M2SB4 | 428 | F312_37.7 P90 BN90S4 | 429 |
| 38 | 260 | 1.5 | 36.4 | 4330 | F252_36.4 S2 M2SB4 | 424 | F252_36.4 P90 BN90S4 | 425 |
| 41 | 245 | 2.4 | 34.4 | 6500 | F312_34.4 S2 M2SB4 | 428 | F312_34.4 P90 BN90S4 | 429 |
| 42 | 236 | 1.1 | 33.1 | 2980 | F202_33.1 S2 M2SB4 | 420 | F202_33.1 P90 BN90S4 | 421 |
| 44 | 230 | 1.7 | 32.2 | 4240 | F252_32.2 S2 M2SB4 | 424 | F252_32.2 P90 BN90S4 | 425 |
| 46 | 217 | 1.2 | 30.4 | 2930 | F202_30.4 S2 M2SB4 | 420 | F202_30.4 P90 BN90S4 | 421 |
| 46 | 215 | 2.8 | 30.1 | 6500 | F312_30.1 S2 M2SB4 | 428 | F312_30.1 P90 BN90S4 | 429 |
| 47 | 214 | 1.9 | 30.0 | 4190 | F252_30.0 S2 M2SB4 | 424 | F252_30.0 P90 BN90S4 | 425 |
| 51 | 194 | 2.1 | 27.2 | 4100 | F252_27.2 S2 M2SB4 | 424 | F252_27.2 P90 BN90S4 | 425 |
| 51 | 195 | 3.1 | 27.3 | 6500 | F312_27.3 S2 M2SB4 | 428 | F312_27.3 P90 BN90S4 | 429 |
| 54 | 185 | 1.3 | 25.9 | 2840 | F202_25.9 S2 M2SB4 | 420 | F202_25.9 P90 BN90S4 | 421 |
| 59 | 169 | 2.4 | 23.8 | 3990 | F252_23.8 S2 M2SB4 | 424 | F252_23.8 P90 BN90S4 | 425 |
| 60 | 165 | 1.4 | 23.1 | 2780 | F202_23.1 S2 M2SB4 | 420 | F202_23.1 P90 BN90S4 | 421 |
| 64 | 156 | 2.6 | 21.8 | 3920 | F252_21.8 S2 M2SB4 | 424 | F252_21.8 P90 BN90S4 | 425 |
| 69 | 144 | 1.6 | 20.2 | 2690 | F202_20.2 S2 M2SB4 | 420 | F202_20.2 P90 BN90S4 | 421 |
| 72 | 138 | 1.0 | 19.3 | 2170 | F102_19.3 S2 M2SB4 | 416 | F102_19.3 P90 BN90S4 | 417 |
| 75 | 133 | 3.0 | 18.6 | 3780 | F252_18.6 S2 M2SB4 | 424 | F252_18.6 P90 BN90S4 | 425 |
| 77 | 129 | 1.7 | 18.1 | 2620 | F202_18.1 S2 M2SB4 | 420 | F202_18.1 P90 BN90S4 | 421 |
| 82 | 121 | 1.1 | 17.0 | 2110 | F102_17.0 S2 M2SB4 | 416 | F102_17.0 P90 BN90S4 | 417 |
| 84 | 119 | 3.4 | 16.6 | 3670 | F252_16.6 S2 M2SB4 | 424 | F252_16.6 P90 BN90S4 | 425 |
| 95 | 106 | 1.9 | 14.8 | 2500 | F202_14.8 S2 M2SB4 | 420 | F202_14.8 P90 BN90S4 | 421 |
| 96 | 104 | 1.1 | 14.6 | 2050 | F102_14.6 S2 M2SB4 | 416 | F102_14.6 P90 BN90S4 | 417 |
| 107 | 93 | 1.1 | 13.0 | 1980 | F102_13.0 S2 M2SB4 | 416 | F102_13.0 P90 BN90S4 | 417 |
| 121 | 82 | 1.2 | 11.5 | 1920 | F102_11.5 S2 M2SB4 | 416 | F102_11.5 P90 BN90S4 | 417 |

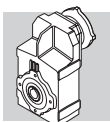


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

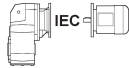

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 125 | 80 | 2.2 | 11.2 | 2310 | F202_11.2 S2 M2SB4 | 420 | F202_11.2 P90 BN90S4 | 421 |
| 143 | 70 | 1.3 | 9.8 | 1840 | F102_9.8 S2 M2SB4 | 416 | F102_9.8 P90 BN90S4 | 417 |
| 160 | 62 | 2.5 | 8.7 | 2160 | F202_8.7 S2 M2SB4 | 420 | F202_8.7 P90 BN90S4 | 421 |
| 163 | 61 | 1.3 | 8.6 | 1780 | F102_8.6 S2 M2SB4 | 416 | F102_8.6 P90 BN90S4 | 417 |
| 179 | 56 | 2.6 | 7.8 | 2100 | F202_7.8 S2 M2SB4 | 420 | F202_7.8 P90 BN90S4 | 421 |
| 189 | 53 | 1.4 | 7.4 | 1720 | F102_7.4 S2 M2SB4 | 416 | F102_7.4 P90 BN90S4 | 417 |
| 218 | 46 | 2.8 | 6.4 | 1980 | F202_6.4 S2 M2SB4 | 420 | F202_6.4 P90 BN90S4 | 421 |
| 243 | 41 | 1.9 | 11.5 | 1600 | F102_11.5 S2 M2SA2 | 416 | F102_11.5 P80 BN80B2 | 417 |
| 249 | 40 | 3.5 | 11.2 | 1910 | F202_11.2 S2 M2SA2 | 420 | F202_11.2 P80 BN80B2 | 421 |
| 287 | 35 | 2.1 | 9.8 | 1530 | F102_9.8 S2 M2SA2 | 416 | F102_9.8 P80 BN80B2 | 417 |
| 326 | 31 | 2.2 | 8.6 | 1480 | F102_8.6 S2 M2SA2 | 416 | F102_8.6 P80 BN80B2 | 417 |
| 378 | 26 | 2.4 | 7.4 | 1410 | F102_7.4 S2 M2SA2 | 416 | F102_7.4 P80 BN80B2 | 417 |

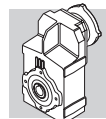
1.5 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 0.83 | 15747 | 0.9 | 1702 | 55000 | F904_1702 S3 M3SA4 | 450 | F904_1702 P90 BN90LA4 | 451 |
| 0.90 | 14535 | 1.0 | 1571 | 55000 | F904_1571 S3 M3SA4 | 450 | F904_1571 P90 BN90LA4 | 451 |
| 0.99 | 13208 | 1.1 | 1428 | 55000 | F904_1428 S3 M3SA4 | 450 | F904_1428 P90 BN90LA4 | 451 |
| 1.1 | 12192 | 1.1 | 1318 | 55000 | F904_1318 S3 M3SA4 | 450 | F904_1318 P90 BN90LA4 | 451 |
| 1.2 | 11146 | 1.3 | 1205 | 55000 | F904_1205 S3 M3SA4 | 450 | F904_1205 P90 BN90LA4 | 451 |
| 1.3 | 10288 | 1.4 | 1112 | 55000 | F904_1112 S3 M3SA4 | 450 | F904_1112 P90 BN90LA4 | 451 |
| 1.5 | 8419 | 1.7 | 910.2 | 55000 | F904_910.2 S3 M3SA4 | 450 | F904_910.2 P90 BN90LA4 | 451 |
| 1.6 | 8300 | 1.0 | 897.3 | 45000 | F804_897.3 S3 M3SA4 | 447 | F804_897.3 P90 BN90LA4 | 448 |
| 1.8 | 7164 | 1.1 | 774.4 | 45000 | F804_774.4 S3 M3SA4 | 447 | F804_774.4 P90 BN90LA4 | 448 |
| 1.8 | 7154 | 2.0 | 773.4 | 55000 | F904_773.4 S3 M3SA4 | 450 | F904_773.4 P90 BN90LA4 | 451 |
| 2.0 | 6612 | 1.2 | 714.9 | 45000 | F804_714.9 S3 M3SA4 | 447 | F804_714.9 P90 BN90LA4 | 448 |
| 2.3 | 5613 | 0.9 | 606.8 | 35000 | F704_606.8 S3 M3SA4 | 444 | F704_606.8 P90 BN90LA4 | 445 |
| 2.3 | 5651 | 1.4 | 610.9 | 45000 | F804_610.9 S3 M3SA4 | 447 | F804_610.9 P90 BN90LA4 | 448 |
| 2.3 | 5787 | 2.4 | 625.6 | 55000 | F904_625.6 S3 M3SA4 | 450 | F904_625.6 P90 BN90LA4 | 451 |
| 2.4 | 5342 | 2.6 | 577.5 | 55000 | F904_577.5 S3 M3SA4 | 450 | F904_577.5 P90 BN90LA4 | 451 |
| 2.5 | 5216 | 1.5 | 563.9 | 45000 | F804_563.9 S3 M3SA4 | 447 | F804_563.9 P90 BN90LA4 | 448 |
| 2.8 | 4721 | 1.1 | 510.4 | 35000 | F704_510.4 S3 M3SA4 | 444 | F704_510.4 P90 BN90LA4 | 445 |
| 2.8 | 4584 | 3.1 | 495.6 | 55000 | F904_495.6 S3 M3SA4 | 450 | F904_495.6 P90 BN90LA4 | 451 |
| 2.9 | 4524 | 1.8 | 489.1 | 45000 | F804_489.1 S3 M3SA4 | 447 | F804_489.1 P90 BN90LA4 | 448 |
| 3.0 | 4358 | 1.1 | 471.2 | 35000 | F704_471.2 S3 M3SA4 | 444 | F704_471.2 P90 BN90LA4 | 445 |
| 3.1 | 4176 | 1.9 | 451.5 | 45000 | F804_451.5 S3 M3SA4 | 447 | F804_451.5 P90 BN90LA4 | 448 |
| 3.1 | 4231 | 3.3 | 457.5 | 55000 | F904_457.5 S3 M3SA4 | 450 | F904_457.5 P90 BN90LA4 | 451 |
| 3.5 | 3732 | 1.3 | 403.5 | 35000 | F704_403.5 S3 M3SA4 | 444 | F704_403.5 P90 BN90LA4 | 445 |
| 3.7 | 3544 | 2.3 | 383.2 | 45000 | F804_383.2 S3 M3SA4 | 447 | F804_383.2 P90 BN90LA4 | 448 |
| 3.8 | 3445 | 1.5 | 372.5 | 35000 | F704_372.5 S3 M3SA4 | 444 | F704_372.5 P90 BN90LA4 | 445 |
| 4.0 | 3272 | 2.4 | 353.7 | 45000 | F804_353.7 S3 M3SA4 | 447 | F804_353.7 P90 BN90LA4 | 448 |
| 4.1 | 3160 | 0.9 | 341.7 | 20000 | F604_341.7 S3 M3SA4 | 440 | F604_341.7 P90 BN90LA4 | 441 |
| 4.5 | 2917 | 1.0 | 315.4 | 20000 | F604_315.4 S3 M3SA4 | 440 | F604_315.4 P90 BN90LA4 | 441 |
| 4.6 | 2815 | 1.8 | 304.3 | 35000 | F704_304.3 S3 M3SA4 | 444 | F704_304.3 P90 BN90LA4 | 445 |
| 4.8 | 2745 | 2.9 | 296.7 | 45000 | F804_296.7 S3 M3SA4 | 447 | F804_296.7 P90 BN90LA4 | 448 |
| 5.0 | 2653 | 1.1 | 280.7 | 20000 | F603_280.7 S3 M3SA4 | 440 | F603_280.7 P90 BN90LA4 | 441 |
| 5.0 | 2599 | 1.9 | 280.9 | 35000 | F704_280.9 S3 M3SA4 | 444 | F704_280.9 P90 BN90LA4 | 445 |



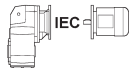



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

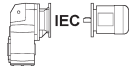

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 5.1 | 2534 | 3.2 | 273.9 | 45000 | F804_273.9 S3 M3SA4 | 447 | F804_273.9 P90 BN90LA4 | 448 |
| 5.4 | 2449 | 1.2 | 259.1 | 20000 | F603_259.1 S3 M3SA4 | 440 | F603_259.1 P90 BN90LA4 | 441 |
| 6.0 | 2229 | 1.3 | 235.8 | 20000 | F603_235.8 S3 M3SA4 | 440 | F603_235.8 P90 BN90LA4 | 441 |
| 6.0 | 2170 | 2.3 | 234.6 | 35000 | F704_234.6 S3 M3SA4 | 444 | F704_234.6 P90 BN90LA4 | 445 |
| 6.5 | 2057 | 1.4 | 217.6 | 20000 | F603_217.6 S3 M3SA4 | 440 | F603_217.6 P90 BN90LA4 | 441 |
| 6.5 | 2003 | 2.5 | 216.5 | 35000 | F704_216.5 S3 M3SA4 | 444 | F704_216.5 P90 BN90LA4 | 445 |
| 7.0 | 1913 | 0.9 | 202.4 | 12000 | F513_202.4 S3 M3SA4 | 436 | F513_202.4 P90 BN90LA4 | 437 |
| 7.0 | 1904 | 1.5 | 201.4 | 20000 | F603_201.4 S3 M3SA4 | 440 | F603_201.4 P90 BN90LA4 | 441 |
| 7.2 | 1853 | 2.7 | 196.0 | 35000 | F703_196.0 S3 M3SA4 | 444 | F703_196.0 P90 BN90LA4 | 445 |
| 7.6 | 1757 | 1.7 | 185.9 | 20000 | F603_185.9 S3 M3SA4 | 440 | F603_185.9 P90 BN90LA4 | 441 |
| 7.8 | 1711 | 2.9 | 180.9 | 35000 | F703_180.9 S3 M3SA4 | 444 | F703_180.9 P90 BN90LA4 | 445 |
| 8.5 | 1566 | 1.1 | 165.6 | 12000 | F513_165.6 S3 M3SA4 | 436 | F513_165.6 P90 BN90LA4 | 437 |
| 8.5 | 1576 | 3.2 | 166.7 | 35000 | F703_166.7 S3 M3SA4 | 444 | F703_166.7 P90 BN90LA4 | 445 |
| 8.7 | 1540 | 1.9 | 162.9 | 20000 | F603_162.9 S3 M3SA4 | 440 | F603_162.9 P90 BN90LA4 | 441 |
| 9.2 | 1454 | 3.4 | 153.8 | 35000 | F703_153.8 S3 M3SA4 | 444 | F703_153.8 P90 BN90LA4 | 445 |
| 9.4 | 1421 | 2.0 | 150.4 | 20000 | F603_150.4 S3 M3SA4 | 440 | F603_150.4 P90 BN90LA4 | 441 |
| 10.8 | 1234 | 2.4 | 130.5 | 20000 | F603_130.5 S3 M3SA4 | 440 | F603_130.5 P90 BN90LA4 | 441 |
| 10.9 | 1228 | 1.5 | 129.9 | 12000 | F513_129.9 S3 M3SA4 | 436 | F513_129.9 P90 BN90LA4 | 437 |
| 11.7 | 1139 | 2.5 | 120.5 | 20000 | F603_120.5 S3 M3SA4 | 440 | F603_120.5 P90 BN90LA4 | 441 |
| 13.3 | 1002 | 1.1 | 106.0 | 8500 | F413_106.0 S3 M3SA4 | 432 | F413_106.0 P90 BN90LA4 | 433 |
| 13.3 | 1006 | 2.9 | 106.4 | 20000 | F603_106.4 S3 M3SA4 | 440 | F603_106.4 P90 BN90LA4 | 441 |
| 13.4 | 993 | 1.8 | 105.1 | 12000 | F513_105.1 S3 M3SA4 | 436 | F513_105.1 P90 BN90LA4 | 437 |
| 14.4 | 928 | 3.1 | 98.2 | 20000 | F603_98.2 S3 M3SA4 | 440 | F603_98.2 P90 BN90LA4 | 441 |
| 16.6 | 802 | 1.4 | 84.9 | 8500 | F413_84.9 S3 M3SA4 | 432 | F413_84.9 P90 BN90LA4 | 433 |
| 16.9 | 787 | 2.3 | 83.2 | 12000 | F513_83.2 S3 M3SA4 | 436 | F513_83.2 P90 BN90LA4 | 437 |
| 20.4 | 653 | 0.9 | 69.1 | 6500 | F313_69.1 S3 M3SA4 | 428 | F313_69.1 P90 BN90LA4 | 429 |
| 21.2 | 629 | 1.7 | 66.5 | 8500 | F413_66.5 S3 M3SA4 | 432 | F413_66.5 P90 BN90LA4 | 433 |
| 21.4 | 622 | 2.9 | 65.8 | 12000 | F513_65.8 S3 M3SA4 | 436 | F513_65.8 P90 BN90LA4 | 437 |
| 22.5 | 593 | 1.0 | 62.8 | 6500 | F313_62.8 S3 M3SA4 | 428 | F313_62.8 P90 BN90LA4 | 429 |
| 23.4 | 570 | 1.9 | 60.2 | 8500 | F413_60.2 S3 M3SA4 | 432 | F413_60.2 P90 BN90LA4 | 433 |
| 27.1 | 492 | 1.2 | 52.1 | 6500 | F313_52.1 S3 M3SA4 | 428 | F313_52.1 P90 BN90LA4 | 429 |
| 27.4 | 487 | 2.2 | 51.5 | 8500 | F413_51.5 S3 M3SA4 | 432 | F413_51.5 P90 BN90LA4 | 433 |
| 29.4 | 463 | 2.3 | 47.9 | 8500 | F412_47.9 S3 M3SA4 | 432 | F412_47.9 P90 BN90LA4 | 433 |
| 29.7 | 449 | 1.3 | 47.5 | 6500 | F313_47.5 S3 M3SA4 | 428 | F313_47.5 P90 BN90LA4 | 429 |
| 31 | 431 | 0.9 | 45.6 | 3880 | F253_45.6 S3 M3SA4 | 424 | F253_45.6 P90 BN90LA4 | 425 |
| 32 | 431 | 1.4 | 44.6 | 6500 | F312_44.6 S3 M3SA4 | 428 | F312_44.6 P90 BN90LA4 | 429 |
| 35 | 393 | 1.0 | 40.7 | 3970 | F252_40.7 S3 M3SA4 | 424 | F252_40.7 P90 BN90LA4 | 425 |
| 35 | 390 | 1.5 | 40.4 | 6500 | F312_40.4 S3 M3SA4 | 428 | F312_40.4 P90 BN90LA4 | 429 |
| 37 | 364 | 1.6 | 37.7 | 6500 | F312_37.7 S3 M3SA4 | 428 | F312_37.7 P90 BN90LA4 | 429 |
| 37 | 369 | 3.0 | 38.2 | 8500 | F412_38.2 S3 M3SA4 | 432 | F412_38.2 P90 BN90LA4 | 433 |
| 39 | 352 | 1.1 | 36.4 | 3940 | F252_36.4 S3 M3SA4 | 424 | F252_36.4 P90 BN90LA4 | 425 |
| 41 | 332 | 1.8 | 34.4 | 6500 | F312_34.4 S3 M3SA4 | 428 | F312_34.4 P90 BN90LA4 | 429 |
| 44 | 311 | 1.3 | 32.2 | 3890 | F252_32.2 S3 M3SA4 | 424 | F252_32.2 P90 BN90LA4 | 425 |
| 47 | 290 | 1.4 | 30.0 | 3860 | F252_30.0 S3 M3SA4 | 424 | F252_30.0 P90 BN90LA4 | 425 |
| 47 | 291 | 2.1 | 30.1 | 6500 | F312_30.1 S3 M3SA4 | 428 | F312_30.1 P90 BN90LA4 | 429 |
| 52 | 263 | 1.5 | 27.2 | 3810 | F252_27.2 S3 M3SA4 | 424 | F252_27.2 P90 BN90LA4 | 425 |
| 52 | 263 | 2.3 | 27.3 | 6500 | F312_27.3 S3 M3SA4 | 428 | F312_27.3 P90 BN90LA4 | 429 |
| 54 | 250 | 1.0 | 25.9 | 2640 | F202_25.9 S3 M3SA4 | 420 | F202_25.9 P90 BN90LA4 | 421 |
| 59 | 229 | 1.7 | 23.8 | 3730 | F252_23.8 S3 M3SA4 | 424 | F252_23.8 P90 BN90LA4 | 425 |
| 60 | 226 | 2.7 | 23.4 | 6480 | F312_23.4 S3 M3SA4 | 428 | F312_23.4 P90 BN90LA4 | 429 |
| 61 | 224 | 1.1 | 23.1 | 2600 | F202_23.1 S3 M3SA4 | 420 | F202_23.1 P90 BN90LA4 | 421 |

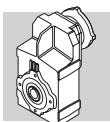


1.5 kW



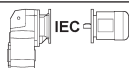

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 65 | 211 | 1.9 | 21.8 | 3680 | F252_21.8 S3 M3SA4 | 424 | F252_21.8 P90 BN90LA4 | 425 |
| 67 | 204 | 2.9 | 21.1 | 6320 | F312_21.1 S3 M3SA4 | 428 | F312_21.1 P90 BN90LA4 | 429 |
| 70 | 195 | 1.1 | 20.2 | 2530 | F202_20.2 S3 M3SA4 | 420 | F202_20.2 P90 BN90LA4 | 421 |
| 76 | 180 | 2.2 | 18.6 | 3570 | F252_18.6 S3 M3SA4 | 424 | F252_18.6 P90 BN90LA4 | 425 |
| 76 | 179 | 3.4 | 18.5 | 6110 | F312_18.5 S3 M3SA4 | 428 | F312_18.5 P90 BN90LA4 | 429 |
| 78 | 175 | 1.2 | 18.1 | 2480 | F202_18.1 S3 M3SA4 | 420 | F202_18.1 P90 BN90LA4 | 421 |
| 85 | 161 | 2.5 | 16.6 | 3490 | F252_16.6 S3 M3SA4 | 424 | F252_16.6 P90 BN90LA4 | 425 |
| 95 | 143 | 1.4 | 14.8 | 2380 | F202_14.8 S3 M3SA4 | 420 | F202_14.8 P90 BN90LA4 | 421 |
| 97 | 140 | 2.9 | 14.5 | 3390 | F252_14.5 S3 M3SA4 | 424 | F252_14.5 P90 BN90LA4 | 425 |
| 109 | 125 | 3.2 | 13 | 3310 | F252_13.0 S3 M3SA4 | 424 | F252_13.0 P90 BN90LA4 | 425 |
| 126 | 108 | 1.6 | 11.2 | 2220 | F202_11.2 S3 M3SA4 | 420 | F202_11.2 P90 BN90LA4 | 421 |
| 144 | 94 | 0.9 | 9.8 | 1760 | F102_9.8 S3 M3SA4 | 416 | F102_9.8 P90 BN90LA4 | 417 |
| 151 | 90 | 2.9 | 9.4 | 3070 | F252_9.4 S3 M3SA4 | 424 | F252_9.4 P90 BN90LA4 | 425 |
| 161 | 84 | 1.8 | 8.7 | 2090 | F202_8.7 S3 M3SA4 | 420 | F202_8.7 P90 BN90LA4 | 421 |
| 164 | 83 | 1.0 | 8.6 | 1710 | F102_8.6 S3 M3SA4 | 416 | F102_8.6 P90 BN90LA4 | 417 |
| 168 | 81 | 3.2 | 8.4 | 2980 | F252_8.4 S3 M3SA4 | 424 | F252_8.4 P90 BN90LA4 | 425 |
| 180 | 76 | 1.9 | 7.8 | 2030 | F202_7.8 S3 M3SA4 | 420 | F202_7.8 P90 BN90LA4 | 421 |
| 190 | 72 | 1.1 | 7.4 | 1650 | F102_7.4 S3 M3SA4 | 416 | F102_7.4 P90 BN90LA4 | 417 |
| 220 | 62 | 2.1 | 6.4 | 1930 | F202_6.4 S3 M3SA4 | 420 | F202_6.4 P90 BN90LA4 | 421 |
| 243 | 56 | 1.4 | 11.5 | 1560 | F102_11.5 S2 M2SB2 | 416 | F102_11.5 P90 BN90SA2 | 417 |
| 249 | 55 | 2.6 | 11.2 | 1860 | F202_11.2 S2 M2SB2 | 420 | F202_11.2 P90 BN90SA2 | 421 |
| 287 | 48 | 1.5 | 9.8 | 1490 | F102_9.8 S2 M2SB2 | 416 | F102_9.8 P90 BN90SA2 | 417 |
| 321 | 42 | 2.9 | 8.7 | 1740 | F202_8.7 S2 M2SB2 | 420 | F202_8.7 P90 BN90SA2 | 421 |
| 326 | 42 | 1.6 | 8.6 | 1440 | F102_8.6 S2 M2SB2 | 416 | F102_8.6 P90 BN90SA2 | 417 |
| 357 | 38 | 3.0 | 7.8 | 1680 | F202_7.8 S2 M2SB2 | 420 | F202_7.8 P90 BN90SA2 | 421 |
| 378 | 36 | 1.7 | 7.4 | 1380 | F102_7.4 S2 M2SB2 | 416 | F102_7.4 P90 BN90SA2 | 417 |
| 437 | 31 | 3.3 | 6.4 | 1590 | F202_6.4 S2 M2SB2 | 420 | F202_6.4 P90 BN90SA2 | 421 |

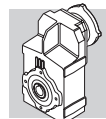
2.2 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 1.2 | 16347 | 0.9 | 1205 | 55000 | F904_1205 S3 M3LA4 | 450 | F904_1205 P100 BN100LA4 | 451 |
| 1.3 | 15090 | 0.9 | 1112 | 55000 | F904_1112 S3 M3LA4 | 450 | F904_1112 P100 BN100LA4 | 451 |
| 1.5 | 12348 | 1.1 | 910.2 | 55000 | F904_910.2 S3 M3LA4 | 450 | F904_910.2 P100 BN100LA4 | 451 |
| 1.8 | 10493 | 1.3 | 773.4 | 55000 | F904_773.4 S3 M3LA4 | 450 | F904_773.4 P100 BN100LA4 | 451 |
| 2.3 | 8287 | 1.0 | 610.9 | 45000 | F804_610.9 S3 M3LA4 | 447 | F804_610.9 P100 BN100LA4 | 448 |
| 2.3 | 8488 | 1.6 | 625.6 | 55000 | F904_625.6 S3 M3LA4 | 450 | F904_625.6 P100 BN100LA4 | 451 |
| 2.4 | 7835 | 1.8 | 577.5 | 55000 | F904_577.5 S3 M3LA4 | 450 | F904_577.5 P100 BN100LA4 | 451 |
| 2.5 | 7650 | 1.0 | 563.9 | 45000 | F804_563.9 S3 M3LA4 | 447 | F804_563.9 P100 BN100LA4 | 448 |
| 2.8 | 6723 | 2.1 | 495.6 | 55000 | F904_495.6 S3 M3LA4 | 450 | F904_495.6 P100 BN100LA4 | 451 |
| 2.9 | 6636 | 1.2 | 489.1 | 45000 | F804_489.1 S3 M3LA4 | 447 | F804_489.1 P100 BN100LA4 | 448 |
| 3.1 | 6125 | 1.3 | 451.5 | 45000 | F804_451.5 S3 M3LA4 | 447 | F804_451.5 P100 BN100LA4 | 448 |
| 3.1 | 6206 | 2.3 | 457.5 | 55000 | F904_457.5 S3 M3LA4 | 450 | F904_457.5 P100 BN100LA4 | 451 |
| 3.5 | 5474 | 0.9 | 403.5 | 35000 | F704_403.5 S3 M3LA4 | 444 | F704_403.5 P100 BN100LA4 | 445 |
| 3.7 | 5198 | 1.5 | 383.2 | 45000 | F804_383.2 S3 M3LA4 | 447 | F804_383.2 P100 BN100LA4 | 448 |
| 3.8 | 5053 | 1.0 | 372.5 | 35000 | F704_372.5 S3 M3LA4 | 444 | F704_372.5 P100 BN100LA4 | 445 |
| 3.9 | 4909 | 2.9 | 361.8 | 55000 | F904_361.8 S3 M3LA4 | 450 | F904_361.8 P100 BN100LA4 | 451 |
| 4.0 | 4798 | 1.7 | 353.7 | 45000 | F804_353.7 S3 M3LA4 | 447 | F804_353.7 P100 BN100LA4 | 448 |



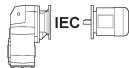



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

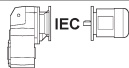

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 4.6 | 4129 | 1.2 | 304.3 | 35000 | F704_304.3 S3 M3LA4 | 444 | F704_304.3 P100 BN100LA4 | 445 |
| 4.8 | 4025 | 2.0 | 296.7 | 45000 | F804_296.7 S3 M3LA4 | 447 | F804_296.7 P100 BN100LA4 | 448 |
| 4.8 | 3950 | 3.5 | 291.1 | 55000 | F904_291.1 S3 M3LA4 | 450 | F904_291.1 P100 BN100LA4 | 451 |
| 5.0 | 3811 | 1.3 | 280.9 | 35000 | F704_280.9 S3 M3LA4 | 444 | F704_280.9 P100 BN100LA4 | 445 |
| 5.1 | 3716 | 2.2 | 273.9 | 45000 | F804_273.9 S3 M3LA4 | 447 | F804_273.9 P100 BN100LA4 | 448 |
| 6.0 | 3182 | 1.6 | 234.6 | 35000 | F704_234.6 S3 M3LA4 | 444 | F704_234.6 P100 BN100LA4 | 445 |
| 6.5 | 3018 | 1.0 | 217.6 | 20000 | F603_217.6 S3 M3LA4 | 440 | F603_217.6 P100 BN100LA4 | 441 |
| 6.5 | 2938 | 1.7 | 216.5 | 35000 | F704_216.5 S3 M3LA4 | 444 | F704_216.5 P100 BN100LA4 | 445 |
| 6.5 | 2964 | 2.7 | 218.5 | 45000 | F804_218.5 S3 M3LA4 | 447 | F804_218.5 P100 BN100LA4 | 448 |
| 7.0 | 2792 | 1.0 | 201.4 | 20000 | F603_201.4 S3 M3LA4 | 440 | F603_201.4 P100 BN100LA4 | 441 |
| 7.2 | 2718 | 1.8 | 196.0 | 35000 | F703_196.0 S3 M3LA4 | 444 | F703_196.0 P100 BN100LA4 | 445 |
| 7.6 | 2577 | 1.1 | 185.9 | 20000 | F603_185.9 S3 M3LA4 | 440 | F603_185.9 P100 BN100LA4 | 441 |
| 7.6 | 2560 | 3.1 | 184.6 | 45000 | F803_184.6 S3 M3LA4 | 447 | F803_184.6 P100 BN100LA4 | 448 |
| 7.8 | 2509 | 2.0 | 180.9 | 35000 | F703_180.9 S3 M3LA4 | 444 | F703_180.9 P100 BN100LA4 | 445 |
| 8.5 | 2311 | 2.2 | 166.7 | 35000 | F703_166.7 S3 M3LA4 | 444 | F703_166.7 P100 BN100LA4 | 445 |
| 8.7 | 2258 | 1.3 | 162.9 | 20000 | F603_162.9 S3 M3LA4 | 440 | F603_162.9 P100 BN100LA4 | 441 |
| 9.2 | 2133 | 2.3 | 153.8 | 35000 | F703_153.8 S3 M3LA4 | 444 | F703_153.8 P100 BN100LA4 | 445 |
| 9.4 | 2085 | 1.4 | 150.4 | 20000 | F603_150.4 S3 M3LA4 | 440 | F603_150.4 P100 BN100LA4 | 441 |
| 10.6 | 1843 | 2.7 | 133.0 | 35000 | F703_133.0 S3 M3LA4 | 444 | F703_133.0 P100 BN100LA4 | 445 |
| 10.8 | 1809 | 1.6 | 130.5 | 20000 | F603_130.5 S3 M3LA4 | 440 | F603_130.5 P100 BN100LA4 | 441 |
| 10.9 | 1801 | 1.0 | 129.9 | 12000 | F513_129.9 S3 M3LA4 | 436 | F513_129.9 P100 BN100LA4 | 437 |
| 11.5 | 1702 | 2.9 | 122.7 | 35000 | F703_122.7 S3 M3LA4 | 444 | F703_122.7 P100 BN100LA4 | 445 |
| 11.7 | 1670 | 1.7 | 120.5 | 20000 | F603_120.5 S3 M3LA4 | 440 | F603_120.5 P100 BN100LA4 | 441 |
| 12.9 | 1520 | 3.3 | 109.6 | 35000 | F703_109.6 S3 M3LA4 | 444 | F703_109.6 P100 BN100LA4 | 445 |
| 13.3 | 1475 | 2.0 | 106.4 | 20000 | F603_106.4 S3 M3LA4 | 440 | F603_106.4 P100 BN100LA4 | 441 |
| 13.4 | 1457 | 1.2 | 105.1 | 12000 | F513_105.1 S3 M3LA4 | 436 | F513_105.1 P100 BN100LA4 | 437 |
| 14.4 | 1362 | 2.1 | 98.2 | 20000 | F603_98.2 S3 M3LA4 | 440 | F603_98.2 P100 BN100LA4 | 441 |
| 16.6 | 1177 | 0.9 | 84.9 | 8500 | F413_84.9 S3 M3LA4 | 432 | F413_84.9 P100 BN100LA4 | 433 |
| 16.8 | 1165 | 2.5 | 84.0 | 20000 | F603_84.0 S3 M3LA4 | 440 | F603_84.0 P100 BN100LA4 | 441 |
| 16.9 | 1154 | 1.6 | 83.2 | 12000 | F513_83.2 S3 M3LA4 | 436 | F513_83.2 P100 BN100LA4 | 437 |
| 18.2 | 1075 | 2.7 | 77.6 | 20000 | F603_77.6 S3 M3LA4 | 440 | F603_77.6 P100 BN100LA4 | 441 |
| 20.7 | 947 | 3.1 | 68.3 | 20000 | F603_68.3 S3 M3LA4 | 440 | F603_68.3 P100 BN100LA4 | 441 |
| 21.2 | 922 | 1.2 | 66.5 | 8500 | F413_66.5 S3 M3LA4 | 432 | F413_66.5 P100 BN100LA4 | 433 |
| 21.4 | 913 | 2.0 | 65.8 | 12000 | F513_65.8 S3 M3LA4 | 436 | F513_65.8 P100 BN100LA4 | 437 |
| 22.4 | 874 | 3.3 | 63.0 | 20000 | F603_63.0 S3 M3LA4 | 440 | F603_63.0 P100 BN100LA4 | 441 |
| 23.4 | 835 | 1.3 | 60.2 | 8500 | F413_60.2 S3 M3LA4 | 432 | F413_60.2 P100 BN100LA4 | 433 |
| 27.4 | 714 | 1.5 | 51.5 | 8500 | F413_51.5 S3 M3LA4 | 432 | F413_51.5 P100 BN100LA4 | 433 |
| 28.8 | 678 | 2.7 | 48.9 | 12000 | F513_48.9 S3 M3LA4 | 436 | F513_48.9 P100 BN100LA4 | 437 |
| 29.4 | 679 | 1.6 | 47.9 | 8500 | F412_47.9 S3 M3LA4 | 432 | F412_47.9 P100 BN100LA4 | 433 |
| 32 | 632 | 0.9 | 44.6 | 6500 | F312_44.6 S3 M3LA4 | 428 | F312_44.6 P100 BN100LA4 | 429 |
| 35 | 572 | 1.0 | 40.4 | 6500 | F312_40.4 S3 M3LA4 | 428 | F312_40.4 P100 BN100LA4 | 429 |
| 37 | 534 | 1.1 | 37.7 | 6500 | F312_37.7 S3 M3LA4 | 428 | F312_37.7 P100 BN100LA4 | 429 |
| 37 | 541 | 2.0 | 38.2 | 8500 | F412_38.2 S3 M3LA4 | 432 | F412_38.2 P100 BN100LA4 | 433 |
| 38 | 526 | 3.2 | 37.1 | 12000 | F512_37.1 S3 M3LA4 | 436 | F512_37.1 P100 BN100LA4 | 437 |
| 41 | 487 | 1.2 | 34.4 | 6490 | F312_34.4 S3 M3LA4 | 428 | F312_34.4 P100 BN100LA4 | 429 |
| 47 | 425 | 0.9 | 30.0 | 3300 | F252_30.0 S3 M3LA4 | 424 | F252_30.0 P100 BN100LA4 | 425 |
| 47 | 427 | 1.4 | 30.1 | 6360 | F312_30.1 S3 M3LA4 | 428 | F312_30.1 P100 BN100LA4 | 429 |
| 47 | 427 | 2.6 | 30.1 | 8500 | F412_30.1 S3 M3LA4 | 432 | F412_30.1 P100 BN100LA4 | 433 |
| 52 | 385 | 1.0 | 27.2 | 3300 | F252_27.2 S3 M3LA4 | 424 | F252_27.2 P100 BN100LA4 | 425 |
| 52 | 386 | 1.6 | 27.3 | 6250 | F312_27.3 S3 M3LA4 | 428 | F312_27.3 P100 BN100LA4 | 429 |
| 58 | 342 | 3.2 | 24.1 | 8400 | F412_24.1 S3 M3LA4 | 432 | F412_24.1 P100 BN100LA4 | 433 |

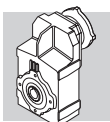


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

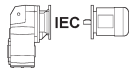

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 59 | 336 | 1.2 | 23.8 | 3290 | F252_23.8 S3 M3LA4 | 424 | F252_23.8 P100 BN100LA4 | 425 |
| 60 | 331 | 1.8 | 23.4 | 6080 | F312_23.4 S3 M3LA4 | 428 | F312_23.4 P100 BN100LA4 | 429 |
| 65 | 309 | 1.3 | 21.8 | 3270 | F252_21.8 S3 M3LA4 | 424 | F252_21.8 P100 BN100LA4 | 425 |
| 67 | 299 | 2.0 | 21.1 | 5960 | F312_21.1 S3 M3LA4 | 428 | F312_21.1 P100 BN100LA4 | 429 |
| 76 | 264 | 1.5 | 18.6 | 3220 | F252_18.6 S3 M3LA4 | 424 | F252_18.6 P100 BN100LA4 | 425 |
| 76 | 262 | 2.3 | 18.5 | 5790 | F312_18.5 S3 M3LA4 | 428 | F312_18.5 P100 BN100LA4 | 429 |
| 84 | 238 | 2.5 | 16.8 | 5670 | F312_16.8 S3 M3LA4 | 428 | F312_16.8 P100 BN100LA4 | 429 |
| 85 | 235 | 1.7 | 16.6 | 3180 | F252_16.6 S3 M3LA4 | 424 | F252_16.6 P100 BN100LA4 | 425 |
| 95 | 210 | 1.0 | 14.8 | 2190 | F202_14.8 S3 M3LA4 | 420 | F202_14.8 P100 BN100LA4 | 421 |
| 97 | 205 | 2.0 | 14.5 | 3120 | F252_14.5 S3 M3LA4 | 424 | F252_14.5 P100 BN100LA4 | 425 |
| 101 | 198 | 3.0 | 13.9 | 5430 | F312_13.9 S3 M3LA4 | 428 | F312_13.9 P100 BN100LA4 | 429 |
| 109 | 184 | 2.2 | 13.0 | 3070 | F252_13.0 S3 M3LA4 | 424 | F252_13.0 P100 BN100LA4 | 425 |
| 111 | 180 | 3.3 | 12.7 | 5310 | F312_12.7 S3 M3LA4 | 428 | F312_12.7 P100 BN100LA4 | 429 |
| 126 | 159 | 1.1 | 11.2 | 2060 | F202_11.2 S3 M3LA4 | 420 | F202_11.2 P100 BN100LA4 | 421 |
| 133 | 150 | 2.6 | 10.6 | 2960 | F252_10.6 S3 M3LA4 | 424 | F252_10.6 P100 BN100LA4 | 425 |
| 151 | 133 | 2.0 | 9.4 | 2900 | F252_9.4 S3 M3LA4 | 424 | F252_9.4 P100 BN100LA4 | 425 |
| 156 | 128 | 3.1 | 9.0 | 4830 | F312_9.0 S3 M3LA4 | 428 | F312_9.0 P100 BN100LA4 | 429 |
| 161 | 124 | 1.3 | 8.7 | 1960 | F202_8.7 S3 M3LA4 | 420 | F202_8.7 P100 BN100LA4 | 421 |
| 168 | 119 | 2.2 | 8.4 | 2830 | F252_8.4 S3 M3LA4 | 424 | F252_8.4 P100 BN100LA4 | 425 |
| 171 | 117 | 3.3 | 8.2 | 4720 | F312_8.2 S3 M3LA4 | 428 | F312_8.2 P100 BN100LA4 | 429 |
| 180 | 111 | 1.3 | 7.8 | 1920 | F202_7.8 S3 M3LA4 | 420 | F202_7.8 P100 BN100LA4 | 421 |
| 205 | 97 | 2.6 | 6.9 | 2710 | F252_6.9 S3 M3LA4 | 424 | F252_6.9 P100 BN100LA4 | 425 |
| 220 | 91 | 1.4 | 6.4 | 1840 | F202_6.4 S3 M3LA4 | 420 | F202_6.4 P100 BN100LA4 | 421 |
| 247 | 81 | 1.0 | 11.5 | 1470 | F102_11.5 S3 M3SA2 | 416 | F102_11.5 P90 BN90L2 | 417 |
| 254 | 79 | 1.8 | 11.2 | 1780 | F202_11.2 S3 M3SA2 | 420 | F202_11.2 P90 BN90L2 | 421 |
| 292 | 68 | 1.1 | 9.8 | 1410 | F102_9.8 S3 M3SA2 | 416 | F102_9.8 P90 BN90L2 | 417 |
| 326 | 61 | 2.0 | 8.7 | 1670 | F202_8.7 S3 M3SA2 | 420 | F202_8.7 P90 BN90L2 | 421 |
| 332 | 60 | 1.1 | 8.6 | 1370 | F102_8.6 S3 M3SA2 | 416 | F102_8.6 P90 BN90L2 | 417 |
| 364 | 55 | 2.1 | 7.8 | 1630 | F202_7.8 S3 M3SA2 | 420 | F202_7.8 P90 BN90L2 | 421 |
| 385 | 52 | 1.2 | 7.4 | 1330 | F102_7.4 S3 M3SA2 | 416 | F102_7.4 P90 BN90L2 | 417 |
| 444 | 45 | 2.3 | 6.4 | 1540 | F202_6.4 S3 M3SA2 | 420 | F202_6.4 P90 BN90L2 | 421 |

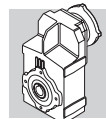
3.0 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 1.8 | 14309 | 1.0 | 773.4 | 55000 | F904_773.4 S3 M3LB4 | 450 | F904_773.4 P100 BN100LB4 | 451 |
| 2.3 | 11574 | 1.2 | 625.6 | 55000 | F904_625.6 S3 M3LB4 | 450 | F904_625.6 P100 BN100LB4 | 451 |
| 2.4 | 10684 | 1.3 | 577.5 | 55000 | F904_577.5 S3 M3LB4 | 450 | F904_577.5 P100 BN100LB4 | 451 |
| 2.8 | 9168 | 1.5 | 495.6 | 55000 | F904_495.6 S3 M3LB4 | 450 | F904_495.6 P100 BN100LB4 | 451 |
| 2.9 | 9049 | 0.9 | 489.1 | 45000 | F804_489.1 S3 M3LB4 | 447 | F804_489.1 P100 BN100LB4 | 448 |
| 3.1 | 8353 | 1.0 | 451.5 | 45000 | F804_451.5 S3 M3LB4 | 447 | F804_451.5 P100 BN100LB4 | 448 |
| 3.1 | 8463 | 1.7 | 457.5 | 55000 | F904_457.5 S3 M3LB4 | 450 | F904_457.5 P100 BN100LB4 | 451 |
| 3.7 | 7088 | 1.1 | 383.2 | 45000 | F804_383.2 S3 M3LB4 | 447 | F804_383.2 P100 BN100LB4 | 448 |
| 3.9 | 6694 | 2.1 | 361.8 | 55000 | F904_361.8 S3 M3LB4 | 450 | F904_361.8 P100 BN100LB4 | 451 |
| 4.0 | 6543 | 1.2 | 353.7 | 45000 | F804_353.7 S3 M3LB4 | 447 | F804_353.7 P100 BN100LB4 | 448 |
| 4.6 | 5630 | 0.9 | 304.3 | 35000 | F704_304.3 S3 M3LB4 | 444 | F704_304.3 P100 BN100LB4 | 445 |
| 4.8 | 5489 | 1.5 | 296.7 | 45000 | F804_296.7 S3 M3LB4 | 447 | F804_296.7 P100 BN100LB4 | 448 |
| 4.8 | 5386 | 2.6 | 291.1 | 55000 | F904_291.1 S3 M3LB4 | 450 | F904_291.1 P100 BN100LB4 | 451 |



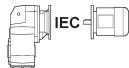



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

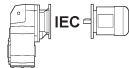

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 5.0 | 5197 | 1.0 | 280.9 | 35000 | F704_280.9 S3 M3LB4 | 444 | F704_280.9 P100 BN100LB4 | 445 |
| 5.1 | 5067 | 1.6 | 273.9 | 45000 | F804_273.9 S3 M3LB4 | 447 | F804_273.9 P100 BN100LB4 | 448 |
| 5.2 | 4971 | 2.8 | 268.7 | 55000 | F904_268.7 S3 M3LB4 | 450 | F904_268.7 P100 BN100LB4 | 451 |
| 6.0 | 4340 | 1.2 | 234.6 | 35000 | F704_234.6 S3 M3LB4 | 444 | F704_234.6 P100 BN100LB4 | 445 |
| 6.1 | 4281 | 3.3 | 231.4 | 55000 | F904_231.4 S3 M3LB4 | 450 | F904_231.4 P100 BN100LB4 | 451 |
| 6.5 | 4006 | 1.2 | 216.5 | 35000 | F704_216.5 S3 M3LB4 | 444 | F704_216.5 P100 BN100LB4 | 445 |
| 6.5 | 4042 | 2.0 | 218.5 | 45000 | F804_218.5 S3 M3LB4 | 447 | F804_218.5 P100 BN100LB4 | 448 |
| 6.6 | 3951 | 3.5 | 213.6 | 55000 | F904_213.6 S3 M3LB4 | 450 | F904_213.6 P100 BN100LB4 | 451 |
| 7.2 | 3706 | 1.3 | 196.0 | 35000 | F703_196.0 S3 M3LB4 | 444 | F703_196.0 P100 BN100LB4 | 445 |
| 7.6 | 3490 | 2.3 | 184.6 | 45000 | F803_184.6 S3 M3LB4 | 447 | F803_184.6 P100 BN100LB4 | 448 |
| 7.8 | 3421 | 1.5 | 180.9 | 35000 | F703_180.9 S3 M3LB4 | 444 | F703_180.9 P100 BN100LB4 | 445 |
| 8.5 | 3151 | 1.6 | 166.7 | 35000 | F703_166.7 S3 M3LB4 | 444 | F703_166.7 P100 BN100LB4 | 445 |
| 8.7 | 3080 | 0.9 | 162.9 | 20000 | F603_162.9 S3 M3LB4 | 440 | F603_162.9 P100 BN100LB4 | 441 |
| 8.8 | 3029 | 2.6 | 160.2 | 45000 | F803_160.2 S3 M3LB4 | 447 | F803_160.2 P100 BN100LB4 | 448 |
| 9.2 | 2909 | 1.7 | 153.8 | 35000 | F703_153.8 S3 M3LB4 | 444 | F703_153.8 P100 BN100LB4 | 445 |
| 9.4 | 2843 | 1.0 | 150.4 | 20000 | F603_150.4 S3 M3LB4 | 440 | F603_150.4 P100 BN100LB4 | 441 |
| 9.5 | 2796 | 2.9 | 147.9 | 45000 | F803_147.9 S3 M3LB4 | 447 | F803_147.9 P100 BN100LB4 | 448 |
| 10.6 | 2514 | 2.0 | 133.0 | 35000 | F703_133.0 S3 M3LB4 | 444 | F703_133.0 P100 BN100LB4 | 445 |
| 10.6 | 2509 | 3.2 | 132.7 | 45000 | F803_132.7 S3 M3LB4 | 447 | F803_132.7 P100 BN100LB4 | 448 |
| 10.8 | 2467 | 1.2 | 130.5 | 20000 | F603_130.5 S3 M3LB4 | 440 | F603_130.5 P100 BN100LB4 | 441 |
| 11.5 | 2320 | 2.2 | 122.7 | 35000 | F703_122.7 S3 M3LB4 | 444 | F703_122.7 P100 BN100LB4 | 445 |
| 11.5 | 2316 | 3.5 | 122.5 | 45000 | F803_122.5 S3 M3LB4 | 447 | F803_122.5 P100 BN100LB4 | 448 |
| 11.7 | 2277 | 1.3 | 120.5 | 20000 | F603_120.5 S3 M3LB4 | 440 | F603_120.5 P100 BN100LB4 | 441 |
| 12.9 | 2072 | 2.4 | 109.6 | 35000 | F703_109.6 S3 M3LB4 | 444 | F703_109.6 P100 BN100LB4 | 445 |
| 13.3 | 2011 | 1.4 | 106.4 | 20000 | F603_106.4 S3 M3LB4 | 440 | F603_106.4 P100 BN100LB4 | 441 |
| 13.4 | 1987 | 0.9 | 105.1 | 12000 | F513_105.1 S3 M3LB4 | 436 | F513_105.1 P100 BN100LB4 | 437 |
| 13.9 | 1913 | 2.6 | 101.2 | 35000 | F703_101.2 S3 M3LB4 | 444 | F703_101.2 P100 BN100LB4 | 445 |
| 14.4 | 1857 | 1.6 | 98.2 | 20000 | F603_98.2 S3 M3LB4 | 440 | F603_98.2 P100 BN100LB4 | 441 |
| 15.2 | 1749 | 2.9 | 92.5 | 35000 | F703_92.5 S3 M3LB4 | 444 | F703_92.5 P100 BN100LB4 | 445 |
| 16.5 | 1614 | 3.1 | 85.4 | 35000 | F703_85.4 S3 M3LB4 | 444 | F703_85.4 P100 BN100LB4 | 445 |
| 16.8 | 1588 | 1.8 | 84.0 | 20000 | F603_84.0 S3 M3LB4 | 440 | F603_84.0 P100 BN100LB4 | 441 |
| 16.9 | 1574 | 1.1 | 83.2 | 12000 | F513_83.2 S3 M3LB4 | 436 | F513_83.2 P100 BN100LB4 | 437 |
| 18.2 | 1466 | 2.0 | 77.6 | 20000 | F603_77.6 S3 M3LB4 | 440 | F603_77.6 P100 BN100LB4 | 441 |
| 20.7 | 1291 | 2.2 | 68.3 | 20000 | F603_68.3 S3 M3LB4 | 440 | F603_68.3 P100 BN100LB4 | 441 |
| 21.4 | 1245 | 1.4 | 65.8 | 12000 | F513_65.8 S3 M3LB4 | 436 | F513_65.8 P100 BN100LB4 | 437 |
| 22.4 | 1192 | 2.4 | 63.0 | 20000 | F603_63.0 S3 M3LB4 | 440 | F603_63.0 P100 BN100LB4 | 441 |
| 23.4 | 1139 | 1.0 | 60.2 | 8500 | F413_60.2 S3 M3LB4 | 432 | F413_60.2 P100 BN100LB4 | 433 |
| 27.2 | 980 | 3.0 | 51.8 | 20000 | F603_51.8 S3 M3LB4 | 440 | F603_51.8 P100 BN100LB4 | 441 |
| 27.4 | 974 | 1.1 | 51.5 | 8500 | F413_51.5 S3 M3LB4 | 432 | F413_51.5 P100 BN100LB4 | 433 |
| 28.8 | 925 | 1.9 | 48.9 | 12000 | F513_48.9 S3 M3LB4 | 436 | F513_48.9 P100 BN100LB4 | 437 |
| 29.4 | 926 | 1.2 | 47.9 | 8500 | F412_47.9 S3 M3LB4 | 432 | F412_47.9 P100 BN100LB4 | 433 |
| 29.5 | 905 | 3.2 | 47.8 | 20000 | F603_47.8 S3 M3LB4 | 440 | F603_47.8 P100 BN100LB4 | 441 |
| 37 | 737 | 1.5 | 38.2 | 8500 | F412_38.2 S3 M3LB4 | 432 | F412_38.2 P100 BN100LB4 | 433 |
| 38 | 717 | 2.4 | 37.1 | 11800 | F512_37.1 S3 M3LB4 | 436 | F512_37.1 P100 BN100LB4 | 437 |
| 41 | 664 | 0.9 | 34.4 | 5810 | F312_34.4 S3 M3LB4 | 428 | F312_34.4 P100 BN100LB4 | 429 |
| 47 | 582 | 1.0 | 30.1 | 5770 | F312_30.1 S3 M3LB4 | 428 | F312_30.1 P100 BN100LB4 | 429 |
| 47 | 582 | 1.9 | 30.1 | 8290 | F412_30.1 S3 M3LB4 | 432 | F412_30.1 P100 BN100LB4 | 433 |
| 47 | 580 | 2.9 | 30.0 | 11200 | F512_30.0 S3 M3LB4 | 436 | F512_30.0 P100 BN100LB4 | 437 |
| 52 | 527 | 1.1 | 27.3 | 5720 | F312_27.3 S3 M3LB4 | 428 | F312_27.3 P100 BN100LB4 | 429 |
| 58 | 466 | 2.4 | 24.1 | 7960 | F412_24.1 S3 M3LB4 | 432 | F412_24.1 P100 BN100LB4 | 433 |
| 60 | 452 | 1.3 | 23.4 | 5620 | F312_23.4 S3 M3LB4 | 428 | F312_23.4 P100 BN100LB4 | 429 |

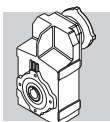


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

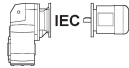

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 65 | 421 | 0.9 | 21.8 | 2800 | F252_21.8 S3 M3LB4 | 424 | F252_21.8 P100 BN100LB4 | 425 |
| 67 | 408 | 1.5 | 21.1 | 5540 | F312_21.1 S3 M3LB4 | 428 | F312_21.1 P100 BN100LB4 | 429 |
| 75 | 365 | 3.0 | 18.9 | 7560 | F412_18.9 S3 M3LB4 | 432 | F412_18.9 P100 BN100LB4 | 433 |
| 76 | 359 | 1.1 | 18.6 | 2830 | F252_18.6 S3 M3LB4 | 424 | F252_18.6 P100 BN100LB4 | 425 |
| 76 | 357 | 1.7 | 18.5 | 5430 | F312_18.5 S3 M3LB4 | 428 | F312_18.5 P100 BN100LB4 | 429 |
| 82 | 331 | 3.2 | 17.1 | 7400 | F412_17.1 S3 M3LB4 | 432 | F412_17.1 P100 BN100LB4 | 433 |
| 84 | 324 | 1.8 | 16.8 | 5340 | F312_16.8 S3 M3LB4 | 428 | F312_16.8 P100 BN100LB4 | 429 |
| 85 | 321 | 1.2 | 16.6 | 2830 | F252_16.6 S3 M3LB4 | 424 | F252_16.6 P100 BN100LB4 | 425 |
| 97 | 279 | 1.4 | 14.5 | 2810 | F252_14.5 S3 M3LB4 | 424 | F252_14.5 P100 BN100LB4 | 425 |
| 101 | 269 | 2.2 | 13.9 | 5150 | F312_13.9 S3 M3LB4 | 428 | F312_13.9 P100 BN100LB4 | 429 |
| 109 | 251 | 1.6 | 13 | 2790 | F252_13.0 S3 M3LB4 | 424 | F252_13.0 P100 BN100LB4 | 425 |
| 111 | 246 | 2.4 | 12.7 | 5060 | F312_12.7 S3 M3LB4 | 428 | F312_12.7 P100 BN100LB4 | 429 |
| 131 | 208 | 2.9 | 10.7 | 4880 | F312_10.7 S3 M3LB4 | 428 | F312_10.7 P100 BN100LB4 | 429 |
| 133 | 205 | 1.9 | 10.6 | 2730 | F252_10.6 S3 M3LB4 | 424 | F252_10.6 P100 BN100LB4 | 425 |
| 151 | 181 | 1.5 | 9.4 | 2710 | F252_9.4 S3 M3LB4 | 424 | F252_9.4 P100 BN100LB4 | 425 |
| 156 | 174 | 2.2 | 9.0 | 4650 | F312_9.0 S3 M3LB4 | 428 | F312_9.0 P100 BN100LB4 | 429 |
| 161 | 169 | 0.9 | 8.7 | 1820 | F202_8.7 S3 M3LB4 | 420 | F202_8.7 P100 BN100LB4 | 421 |
| 168 | 162 | 1.6 | 8.4 | 2660 | F252_8.4 S3 M3LB4 | 424 | F252_8.4 P100 BN100LB4 | 425 |
| 171 | 159 | 2.5 | 8.2 | 4550 | F312_8.2 S3 M3LB4 | 428 | F312_8.2 P100 BN100LB4 | 429 |
| 180 | 151 | 1.0 | 7.8 | 1790 | F202_7.8 S3 M3LB4 | 420 | F202_7.8 P100 BN100LB4 | 421 |
| 203 | 134 | 2.9 | 6.9 | 4360 | F312_6.9 S3 M3LB4 | 428 | F312_6.9 P100 BN100LB4 | 429 |
| 205 | 133 | 1.9 | 6.9 | 2560 | F252_6.9 S3 M3LB4 | 424 | F252_6.9 P100 BN100LB4 | 425 |
| 220 | 124 | 1.0 | 6.4 | 1730 | F202_6.4 S3 M3LB4 | 420 | F202_6.4 P100 BN100LB4 | 421 |
| 220 | 124 | 2.9 | 13.0 | 2510 | F252_13.0 S3 M3LA2 | 424 | F252_13.0 P100 BN100L2 | 425 |
| 255 | 107 | 1.3 | 11.2 | 1680 | F202_11.2 S3 M3LA2 | 420 | F202_11.2 P100 BN100L2 | 421 |
| 269 | 101 | 3.2 | 10.6 | 2410 | F252_10.6 S3 M3LA2 | 424 | F252_10.6 P100 BN100L2 | 425 |
| 306 | 89 | 3.0 | 9.4 | 2350 | F252_9.4 S3 M3LA2 | 424 | F252_9.4 P100 BN100L2 | 425 |
| 328 | 83 | 1.5 | 8.7 | 1600 | F202_8.7 S3 M3LA2 | 420 | F202_8.7 P100 BN100L2 | 421 |
| 341 | 80 | 3.3 | 8.4 | 2290 | F252_8.4 S3 M3LA2 | 424 | F252_8.4 P100 BN100L2 | 425 |
| 365 | 75 | 1.5 | 7.8 | 1560 | F202_7.8 S3 M3LA2 | 420 | F202_7.8 P100 BN100L2 | 421 |
| 446 | 61 | 1.7 | 6.4 | 1480 | F202_6.4 S3 M3LA2 | 420 | F202_6.4 P100 BN100L2 | 421 |

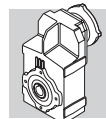
4.0 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 2.2 | 15542 | 0.9 | 625.6 | 55000 | F904_625.6 S3 M3LC4 | 450 | F904_625.6 P112 BN112M4 | 451 |
| 2.4 | 14347 | 1.0 | 577.5 | 55000 | F904_577.5 S3 M3LC4 | 450 | F904_577.5 P112 BN112M4 | 451 |
| 2.8 | 12311 | 1.1 | 495.6 | 55000 | F904_495.6 S3 M3LC4 | 450 | F904_495.6 P112 BN112M4 | 451 |
| 3.1 | 11364 | 1.2 | 457.5 | 55000 | F904_457.5 S3 M3LC4 | 450 | F904_457.5 P112 BN112M4 | 451 |
| 3.9 | 8989 | 1.6 | 361.8 | 55000 | F904_361.8 S3 M3LC4 | 450 | F904_361.8 P112 BN112M4 | 451 |
| 4.0 | 8786 | 0.9 | 353.7 | 45000 | F804_353.7 S3 M3LC4 | 447 | F804_353.7 P112 BN112M4 | 448 |
| 4.7 | 7371 | 1.1 | 296.7 | 45000 | F804_296.7 S3 M3LC4 | 447 | F804_296.7 P112 BN112M4 | 448 |
| 4.8 | 7232 | 1.9 | 291.1 | 55000 | F904_291.1 S3 M3LC4 | 450 | F904_291.1 P112 BN112M4 | 451 |
| 5.1 | 6804 | 1.2 | 273.9 | 45000 | F804_273.9 S3 M3LC4 | 447 | F804_273.9 P112 BN112M4 | 448 |
| 5.2 | 6676 | 2.1 | 268.7 | 55000 | F904_268.7 S3 M3LC4 | 450 | F904_268.7 P112 BN112M4 | 451 |
| 6.0 | 5827 | 0.9 | 234.6 | 35000 | F704_234.6 S3 M3LC4 | 444 | F704_234.6 P112 BN112M4 | 445 |
| 6.1 | 5748 | 2.4 | 231.4 | 55000 | F904_231.4 S3 M3LC4 | 450 | F904_231.4 P112 BN112M4 | 451 |
| 6.4 | 5428 | 1.5 | 218.5 | 45000 | F804_218.5 S3 M3LC4 | 447 | F804_218.5 P112 BN112M4 | 448 |



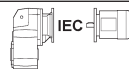



4.0 kW



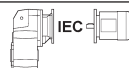

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 6.5 | 5379 | 0.9 | 216.5 | 35000 | F704_216.5 S3 M3LC4 | 444 | F704_216.5 P112 BN112M4 | 445 |
| 6.6 | 5306 | 2.6 | 213.6 | 55000 | F904_213.6 S3 M3LC4 | 450 | F904_213.6 P112 BN112M4 | 451 |
| 7.1 | 4977 | 1.0 | 196.0 | 35000 | F703_196.0 S3 M3LC4 | 444 | F703_196.0 P112 BN112M4 | 445 |
| 7.2 | 4929 | 2.8 | 194.2 | 55000 | F903_194.2 S3 M3LC4 | 450 | F903_194.2 P112 BN112M4 | 451 |
| 7.6 | 4687 | 1.7 | 184.6 | 45000 | F803_184.6 S3 M3LC4 | 447 | F803_184.6 P112 BN112M4 | 448 |
| 7.7 | 4594 | 1.1 | 180.9 | 35000 | F703_180.9 S3 M3LC4 | 444 | F703_180.9 P112 BN112M4 | 445 |
| 7.8 | 4550 | 3.1 | 179.2 | 55000 | F903_179.2 S3 M3LC4 | 450 | F903_179.2 P112 BN112M4 | 451 |
| 8.4 | 4232 | 1.2 | 166.7 | 35000 | F703_166.7 S3 M3LC4 | 444 | F703_166.7 P112 BN112M4 | 445 |
| 8.6 | 4134 | 3.4 | 162.8 | 55000 | F903_162.8 S3 M3LC4 | 450 | F903_162.8 P112 BN112M4 | 451 |
| 8.7 | 4068 | 2.0 | 160.2 | 45000 | F803_160.2 S3 M3LC4 | 447 | F803_160.2 P112 BN112M4 | 448 |
| 9.1 | 3906 | 1.3 | 153.8 | 35000 | F703_153.8 S3 M3LC4 | 444 | F703_153.8 P112 BN112M4 | 445 |
| 9.5 | 3755 | 2.1 | 147.9 | 45000 | F803_147.9 S3 M3LC4 | 447 | F803_147.9 P112 BN112M4 | 448 |
| 10.5 | 3376 | 1.5 | 133.0 | 35000 | F703_133.0 S3 M3LC4 | 444 | F703_133.0 P112 BN112M4 | 445 |
| 10.6 | 3369 | 2.4 | 132.7 | 45000 | F803_132.7 S3 M3LC4 | 447 | F803_132.7 P112 BN112M4 | 448 |
| 11.4 | 3116 | 1.6 | 122.7 | 35000 | F703_122.7 S3 M3LC4 | 444 | F703_122.7 P112 BN112M4 | 445 |
| 11.4 | 3110 | 2.6 | 122.5 | 45000 | F803_122.5 S3 M3LC4 | 447 | F803_122.5 P112 BN112M4 | 448 |
| 11.6 | 3058 | 0.9 | 120.5 | 20000 | F603_120.5 S3 M3LC4 | 440 | F603_120.5 P112 BN112M4 | 441 |
| 12.3 | 2888 | 2.8 | 113.8 | 45000 | F803_113.8 S3 M3LC4 | 447 | F803_113.8 P112 BN112M4 | 448 |
| 12.8 | 2783 | 1.8 | 109.6 | 35000 | F703_109.6 S3 M3LC4 | 444 | F703_109.6 P112 BN112M4 | 445 |
| 13.2 | 2701 | 1.1 | 106.4 | 20000 | F603_106.4 S3 M3LC4 | 440 | F603_106.4 P112 BN112M4 | 441 |
| 13.8 | 2569 | 1.9 | 101.2 | 35000 | F703_101.2 S3 M3LC4 | 444 | F703_101.2 P112 BN112M4 | 445 |
| 14.3 | 2493 | 1.2 | 98.2 | 20000 | F603_98.2 S3 M3LC4 | 440 | F603_98.2 P112 BN112M4 | 441 |
| 15.1 | 2348 | 2.1 | 92.5 | 35000 | F703_92.5 S3 M3LC4 | 444 | F703_92.5 P112 BN112M4 | 445 |
| 16.4 | 2168 | 2.3 | 85.4 | 35000 | F703_85.4 S3 M3LC4 | 444 | F703_85.4 P112 BN112M4 | 445 |
| 16.7 | 2133 | 1.4 | 84.0 | 20000 | F603_84.0 S3 M3LC4 | 440 | F603_84.0 P112 BN112M4 | 441 |
| 18.1 | 1969 | 1.5 | 77.6 | 20000 | F603_77.6 S3 M3LC4 | 440 | F603_77.6 P112 BN112M4 | 441 |
| 20.5 | 1734 | 1.7 | 68.3 | 20000 | F603_68.3 S3 M3LC4 | 440 | F603_68.3 P112 BN112M4 | 441 |
| 21.3 | 1672 | 1.1 | 65.8 | 12000 | F513_65.8 S3 M3LC4 | 436 | F513_65.8 P112 BN112M4 | 437 |
| 22.2 | 1600 | 1.8 | 63.0 | 20000 | F603_63.0 S3 M3LC4 | 440 | F603_63.0 P112 BN112M4 | 441 |
| 27.0 | 1316 | 2.2 | 51.8 | 20000 | F603_51.8 S3 M3LC4 | 440 | F603_51.8 P112 BN112M4 | 441 |
| 28.6 | 1242 | 1.4 | 48.9 | 11600 | F513_48.9 S3 M3LC4 | 436 | F513_48.9 P112 BN112M4 | 437 |
| 29.3 | 1215 | 2.4 | 47.8 | 20000 | F603_47.8 S3 M3LC4 | 440 | F603_47.8 P112 BN112M4 | 441 |
| 33 | 1069 | 2.7 | 42.1 | 20000 | F603_42.1 S3 M3LC4 | 440 | F603_42.1 P112 BN112M4 | 441 |
| 36 | 986 | 2.9 | 38.8 | 20000 | F603_38.8 S3 M3LC4 | 440 | F603_38.8 P112 BN112M4 | 441 |
| 37 | 990 | 1.1 | 38.2 | 7720 | F412_38.2 S3 M3LC4 | 432 | F412_38.2 P112 BN112M4 | 433 |
| 38 | 963 | 1.8 | 37.1 | 11200 | F512_37.1 S3 M3LC4 | 436 | F512_37.1 P112 BN112M4 | 437 |
| 46 | 781 | 1.4 | 30.1 | 7610 | F412_30.1 S3 M3LC4 | 432 | F412_30.1 P112 BN112M4 | 433 |
| 47 | 779 | 2.2 | 30.0 | 10700 | F512_30.0 S3 M3LC4 | 436 | F512_30.0 P112 BN112M4 | 437 |
| 55 | 645 | 2.9 | 25.4 | 20000 | F603_25.4 S3 M3LC4 | 440 | F603_25.4 P112 BN112M4 | 441 |
| 58 | 625 | 1.8 | 24.1 | 7420 | F412_24.1 S3 M3LC4 | 432 | F412_24.1 P112 BN112M4 | 433 |
| 59 | 617 | 2.7 | 23.8 | 10200 | F512_23.8 S3 M3LC4 | 436 | F512_23.8 P112 BN112M4 | 437 |
| 60 | 607 | 1.0 | 23.4 | 5040 | F312_23.4 S3 M3LC4 | 428 | F312_23.4 P112 BN112M4 | 429 |
| 60 | 596 | 3.2 | 23.5 | 20000 | F603_23.5 S3 M3LC4 | 440 | F603_23.5 P112 BN112M4 | 441 |
| 66 | 548 | 1.1 | 21.1 | 5020 | F312_21.1 S3 M3LC4 | 428 | F312_21.1 P112 BN112M4 | 429 |
| 74 | 490 | 2.2 | 18.9 | 7150 | F412_18.9 S3 M3LC4 | 432 | F412_18.9 P112 BN112M4 | 433 |
| 74 | 488 | 3.2 | 18.8 | 9640 | F512_18.8 S3 M3LC4 | 436 | F512_18.8 P112 BN112M4 | 437 |
| 76 | 479 | 1.3 | 18.5 | 4980 | F312_18.5 S3 M3LC4 | 428 | F312_18.5 P112 BN112M4 | 429 |
| 82 | 444 | 2.4 | 17.1 | 7030 | F412_17.1 S3 M3LC4 | 432 | F412_17.1 P112 BN112M4 | 433 |
| 83 | 436 | 1.4 | 16.8 | 4930 | F312_16.8 S3 M3LC4 | 428 | F312_16.8 P112 BN112M4 | 429 |
| 84 | 431 | 0.9 | 16.6 | 2380 | F252_16.6 S3 M3LC4 | 424 | F252_16.6 P112 BN112M4 | 425 |
| 96 | 379 | 2.7 | 14.6 | 6820 | F412_14.6 S3 M3LC4 | 432 | F412_14.6 P112 BN112M4 | 433 |

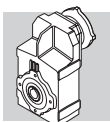


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

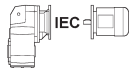

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 97 | 375 | 1.1 | 14.5 | 2420 | F252_14.5 S3 M3LC4 | 424 | F252_14.5 P112 BN112M4 | 425 |
| 100 | 362 | 1.7 | 13.9 | 4820 | F312_13.9 S3 M3LC4 | 428 | F312_13.9 P112 BN112M4 | 429 |
| 108 | 337 | 1.2 | 13.0 | 2440 | F252_13.0 S3 M3LC4 | 424 | F252_13.0 P112 BN112M4 | 425 |
| 110 | 330 | 1.8 | 12.7 | 4750 | F312_12.7 S3 M3LC4 | 428 | F312_12.7 P112 BN112M4 | 429 |
| 130 | 279 | 2.2 | 10.7 | 4620 | F312_10.7 S3 M3LC4 | 428 | F312_10.7 P112 BN112M4 | 429 |
| 130 | 279 | 3.2 | 10.8 | 6380 | F412_10.8 S3 M3LC4 | 432 | F412_10.8 P112 BN112M4 | 433 |
| 132 | 276 | 1.4 | 10.6 | 2450 | F252_10.6 S3 M3LC4 | 424 | F252_10.6 P112 BN112M4 | 425 |
| 150 | 243 | 1.1 | 9.4 | 2470 | F252_9.4 S3 M3LC4 | 424 | F252_9.4 P112 BN112M4 | 425 |
| 153 | 237 | 3.0 | 9.1 | 6160 | F412_9.1 S3 M3LC4 | 432 | F412_9.1 P112 BN112M4 | 433 |
| 155 | 234 | 1.7 | 9.0 | 4420 | F312_9.0 S3 M3LC4 | 428 | F312_9.0 P112 BN112M4 | 429 |
| 167 | 218 | 1.2 | 8.4 | 2450 | F252_8.4 S3 M3LC4 | 424 | F252_8.4 P112 BN112M4 | 425 |
| 170 | 213 | 1.8 | 8.2 | 4350 | F312_8.2 S3 M3LC4 | 428 | F312_8.2 P112 BN112M4 | 429 |
| 201 | 180 | 2.2 | 6.9 | 4200 | F312_6.9 S3 M3LC4 | 428 | F312_6.9 P112 BN112M4 | 429 |
| 204 | 178 | 1.4 | 6.9 | 2390 | F252_6.9 S3 M3LC4 | 424 | F252_6.9 P112 BN112M4 | 425 |
| 206 | 176 | 3.2 | 13.9 | 4200 | F312_13.9 S3 M3LB2 | 428 | F312_13.9 P100 BN100LB2 | 429 |
| 221 | 164 | 2.2 | 13.0 | 2340 | F252_13.0 S3 M3LB2 | 424 | F252_13.0 P112 BN112M2 | 425 |
| 226 | 161 | 3.4 | 12.7 | 4120 | F312_12.7 S3 M3LB2 | 428 | F312_12.7 P100 BN100LB2 | 429 |
| 255 | 142 | 1.0 | 11.2 | 1570 | F202_11.2 S3 M3LB2 | 420 | F202_11.2 P100 BN100LB2 | 421 |
| 270 | 134 | 2.4 | 10.6 | 2270 | F252_10.6 S3 M3LB2 | 424 | F252_10.6 P112 BN112M2 | 425 |
| 307 | 118 | 2.2 | 9.4 | 2230 | F252_9.4 S3 M3LB2 | 424 | F252_9.4 P112 BN112M2 | 425 |
| 318 | 114 | 3.4 | 9.0 | 3760 | F312_9.0 S3 M3LB2 | 428 | F312_9.0 P100 BN100LB2 | 429 |
| 329 | 110 | 1.1 | 8.7 | 1510 | F202_8.7 S3 M3LB2 | 420 | F202_8.7 P100 BN100LB2 | 421 |
| 342 | 106 | 2.4 | 8.4 | 2190 | F252_8.4 S3 M3LB2 | 424 | F252_8.4 P112 BN112M2 | 425 |
| 366 | 99 | 1.2 | 7.8 | 1480 | F202_7.8 S3 M3LB2 | 420 | F202_7.8 P100 BN100LB2 | 421 |
| 418 | 87 | 2.7 | 6.9 | 2090 | F252_6.9 S3 M3LB2 | 424 | F252_6.9 P112 BN112M2 | 425 |
| 448 | 81 | 1.3 | 6.4 | 1420 | F202_6.4 S3 M3LB2 | 420 | F202_6.4 P100 BN100LB2 | 421 |

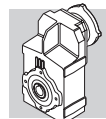
5.5 kW

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 2.9 | 16458 | 0.9 | 495.6 | 55000 | F904_495.6 S4 M4SA4 | 450 | F904_495.6 P132 BN132S4 | 451 |
| 3.1 | 15192 | 0.9 | 457.5 | 55000 | F904_457.5 S4 M4SA4 | 450 | F904_457.5 P132 BN132S4 | 451 |
| 4.0 | 12017 | 1.2 | 361.8 | 55000 | F904_361.8 S4 M4SA4 | 450 | F904_361.8 P132 BN132S4 | 451 |
| 4.9 | 9668 | 1.4 | 291.1 | 55000 | F904_291.1 S4 M4SA4 | 450 | F904_291.1 P132 BN132S4 | 451 |
| 5.3 | 9096 | 0.9 | 273.9 | 45000 | F804_273.9 S4 M4SA4 | 447 | F804_273.9 P132 BN132S4 | 448 |
| 5.4 | 8925 | 1.6 | 268.7 | 55000 | F904_268.7 S4 M4SA4 | 450 | F904_268.7 P132 BN132S4 | 451 |
| 6.2 | 7685 | 1.8 | 231.4 | 55000 | F904_231.4 S4 M4SA4 | 450 | F904_231.4 P132 BN132S4 | 451 |
| 6.6 | 7256 | 1.1 | 218.5 | 45000 | F804_218.5 S4 M4SA4 | 447 | F804_218.5 P132 BN132S4 | 448 |
| 6.7 | 7093 | 2 | 213.6 | 55000 | F904_213.6 S4 M4SA4 | 450 | F904_213.6 P132 BN132S4 | 451 |
| 7.4 | 6590 | 2.1 | 194.2 | 55000 | F903_194.2 S4 M4SA4 | 450 | F903_194.2 P132 BN132S4 | 451 |
| 7.8 | 6266 | 1.3 | 184.6 | 45000 | F803_184.6 S4 M4SA4 | 447 | F803_184.6 P132 BN132S4 | 448 |
| 8.0 | 6083 | 2.3 | 179.2 | 55000 | F903_179.2 S4 M4SA4 | 450 | F903_179.2 P132 BN132S4 | 451 |
| 8.8 | 5527 | 2.5 | 162.8 | 55000 | F903_162.8 S4 M4SA4 | 450 | F903_162.8 P132 BN132S4 | 451 |
| 9.0 | 5438 | 1.5 | 160.2 | 45000 | F803_160.2 S4 M4SA4 | 447 | F803_160.2 P132 BN132S4 | 448 |
| 9.4 | 5222 | 1.0 | 153.8 | 35000 | F703_153.8 S4 M4SA4 | 444 | F703_153.8 P132 BN132S4 | 445 |
| 9.6 | 5101 | 2.7 | 150.3 | 55000 | F903_150.3 S4 M4SA4 | 450 | F903_150.3 P132 BN132S4 | 451 |
| 9.7 | 5020 | 1.6 | 147.9 | 45000 | F803_147.9 S4 M4SA4 | 447 | F803_147.9 P132 BN132S4 | 448 |
| 10.5 | 4661 | 3.0 | 137.3 | 55000 | F903_137.3 S4 M4SA4 | 450 | F903_137.3 P132 BN132S4 | 451 |



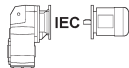



5.5 kW



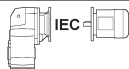

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 10.8 | 4513 | 1.1 | 133 | 35000 | F703_133.0 S4 M4SA4 | 444 | F703_133.0 P132 BN132S4 | 445 |
| 10.9 | 4504 | 1.8 | 132.7 | 45000 | F803_132.7 S4 M4SA4 | 447 | F803_132.7 P132 BN132S4 | 448 |
| 11.4 | 4303 | 3.3 | 126.8 | 55000 | F903_126.8 S4 M4SA4 | 450 | F903_126.8 P132 BN132S4 | 451 |
| 11.7 | 4165 | 1.2 | 122.7 | 35000 | F703_122.7 S4 M4SA4 | 444 | F703_122.7 P132 BN132S4 | 445 |
| 11.8 | 4157 | 1.9 | 122.5 | 45000 | F803_122.5 S4 M4SA4 | 447 | F803_122.5 P132 BN132S4 | 448 |
| 12.7 | 3861 | 2.1 | 113.8 | 45000 | F803_113.8 S4 M4SA4 | 447 | F803_113.8 P132 BN132S4 | 448 |
| 13.1 | 3720 | 1.3 | 109.6 | 35000 | F703_109.6 S4 M4SA4 | 444 | F703_109.6 P132 BN132S4 | 445 |
| 14.2 | 3434 | 1.5 | 101.2 | 35000 | F703_101.2 S4 M4SA4 | 444 | F703_101.2 P132 BN132S4 | 445 |
| 15.6 | 3139 | 1.6 | 92.5 | 35000 | F703_92.5 S4 M4SA4 | 444 | F703_92.5 P132 BN132S4 | 445 |
| 15.6 | 3133 | 2.6 | 92.3 | 45000 | F803_92.3 S4 M4SA4 | 447 | F803_92.3 P132 BN132S4 | 448 |
| 16.9 | 2898 | 1.7 | 85.4 | 35000 | F703_85.4 S4 M4SA4 | 444 | F703_85.4 P132 BN132S4 | 445 |
| 16.9 | 2892 | 2.8 | 85.2 | 45000 | F803_85.2 S4 M4SA4 | 447 | F803_85.2 P132 BN132S4 | 448 |
| 17.1 | 2852 | 1.0 | 84 | 20000 | F603_84.0 S4 M4SA4 | 440 | F603_84.0 P132 BN132S4 | 441 |
| 18.6 | 2632 | 1.1 | 77.6 | 20000 | F603_77.6 S4 M4SA4 | 440 | F603_77.6 P132 BN132S4 | 441 |
| 18.9 | 2588 | 3.1 | 76.3 | 45000 | F803_76.3 S4 M4SA4 | 447 | F803_76.3 P132 BN132S4 | 448 |
| 19.6 | 2497 | 2.0 | 73.6 | 35000 | F703_73.6 S4 M4SA4 | 444 | F703_73.6 P132 BN132S4 | 445 |
| 20.5 | 2389 | 3.3 | 70.4 | 45000 | F803_70.4 S4 M4SA4 | 447 | F803_70.4 P132 BN132S4 | 448 |
| 21.1 | 2317 | 1.3 | 68.3 | 20000 | F603_68.3 S4 M4SA4 | 440 | F603_68.3 P132 BN132S4 | 441 |
| 21.2 | 2305 | 2.2 | 67.9 | 35000 | F703_67.9 S4 M4SA4 | 444 | F703_67.9 P132 BN132S4 | 445 |
| 22.8 | 2139 | 1.4 | 63 | 20000 | F603_63.0 S4 M4SA4 | 440 | F603_63.0 P132 BN132S4 | 441 |
| 23.0 | 2121 | 2.4 | 62.5 | 35000 | F703_62.5 S4 M4SA4 | 444 | F703_62.5 P132 BN132S4 | 445 |
| 25.0 | 1958 | 2.6 | 57.7 | 35000 | F703_57.7 S4 M4SA4 | 444 | F703_57.7 P132 BN132S4 | 445 |
| 27.8 | 1759 | 1.6 | 51.8 | 20000 | F603_51.8 S4 M4SA4 | 440 | F603_51.8 P132 BN132S4 | 441 |
| 29.4 | 1660 | 1.1 | 48.9 | 10300 | F513_48.9 S4 M4SA4 | 436 | F513_48.9 P132 BN132S4 | 437 |
| 29.4 | 1662 | 3 | 49.0 | 35000 | F703_49.0 S4 M4SA4 | 444 | F703_49.0 P132 BN132S4 | 445 |
| 30.0 | 1624 | 1.8 | 47.8 | 20000 | F603_47.8 S4 M4SA4 | 440 | F603_47.8 P132 BN132S4 | 441 |
| 32 | 1534 | 3.3 | 45.2 | 34300 | F703_45.2 S4 M4SA4 | 444 | F703_45.2 P132 BN132S4 | 445 |
| 34 | 1428 | 2.0 | 42.1 | 20000 | F603_42.1 S4 M4SA4 | 440 | F603_42.1 P132 BN132S4 | 441 |
| 37 | 1319 | 2.2 | 38.8 | 20000 | F603_38.8 S4 M4SA4 | 440 | F603_38.8 P132 BN132S4 | 441 |
| 39 | 1288 | 1.3 | 37.1 | 10300 | F512_37.1 S4 M4SA4 | 436 | F512_37.1 P132 BN132S4 | 437 |
| 45 | 1089 | 2.7 | 32.1 | 20000 | F603_32.1 S4 M4SA4 | 440 | F603_32.1 P132 BN132S4 | 441 |
| 48 | 1044 | 1.1 | 30.1 | 6580 | F412_30.1 S4 M4SA4 | 432 | F412_30.1 P132 BN132S4 | 433 |
| 48 | 1041 | 1.6 | 30 | 9950 | F512_30.0 S4 M4SA4 | 436 | F512_30.0 P132 BN132S4 | 437 |
| 49 | 1005 | 2.9 | 29.6 | 20000 | F603_29.6 S4 M4SA4 | 440 | F603_29.6 P132 BN132S4 | 441 |
| 57 | 863 | 2.2 | 25.4 | 20000 | F603_25.4 S4 M4SA4 | 440 | F603_25.4 P132 BN132S4 | 441 |
| 60 | 836 | 1.3 | 24.1 | 6580 | F412_24.1 S4 M4SA4 | 432 | F412_24.1 P132 BN132S4 | 433 |
| 61 | 825 | 2.0 | 23.8 | 9560 | F512_23.8 S4 M4SA4 | 436 | F512_23.8 P132 BN132S4 | 437 |
| 61 | 796 | 2.4 | 23.5 | 20000 | F603_23.5 S4 M4SA4 | 440 | F603_23.5 P132 BN132S4 | 441 |
| 70 | 701 | 2.7 | 20.7 | 20000 | F603_20.7 S4 M4SA4 | 440 | F603_20.7 P132 BN132S4 | 441 |
| 76 | 655 | 1.7 | 18.9 | 6480 | F412_18.9 S4 M4SA4 | 432 | F412_18.9 P132 BN132S4 | 433 |
| 76 | 647 | 2.9 | 19.1 | 20000 | F603_19.1 S4 M4SA4 | 440 | F603_19.1 P132 BN132S4 | 441 |
| 77 | 653 | 2.4 | 18.8 | 9110 | F512_18.8 S4 M4SA4 | 436 | F512_18.8 P132 BN132S4 | 437 |
| 84 | 593 | 1.8 | 17.1 | 6410 | F412_17.1 S4 M4SA4 | 432 | F412_17.1 P132 BN132S4 | 433 |
| 98 | 507 | 2.0 | 14.6 | 6280 | F412_14.6 S4 M4SA4 | 432 | F412_14.6 P132 BN132S4 | 433 |
| 103 | 485 | 2.9 | 14.0 | 8520 | F512_14.0 S4 M4SA4 | 436 | F512_14.0 P132 BN132S4 | 437 |
| 130 | 385 | 3.5 | 11.1 | 8050 | F512_11.1 S4 M4SA4 | 436 | F512_11.1 P132 BN132S4 | 437 |
| 134 | 373 | 2.4 | 10.8 | 5970 | F412_10.8 S4 M4SA4 | 432 | F412_10.8 P132 BN132S4 | 433 |
| 158 | 317 | 2.2 | 9.1 | 5810 | F412_9.1 S4 M4SA4 | 432 | F412_9.1 P132 BN132S4 | 433 |
| 159 | 314 | 3.5 | 9.1 | 7590 | F512_9.1 S4 M4SA4 | 436 | F512_9.1 P132 BN132S4 | 437 |
| 198 | 253 | 3.3 | 14.6 | 5510 | F412_14.6 S4 M4SA2 | 432 | F412_14.6 P132 BN132SA2 | 433 |
| 214 | 233 | 2.7 | 6.7 | 5430 | F412_6.7 S4 M4SA4 | 432 | F412_6.7 P132 BN132S4 | 433 |

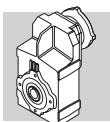


5.5 kW



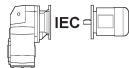

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 268 | 186 | 3.9 | 10.8 | 5120 | F412_10.8 S4 M4SA2 | 432 | F412_10.8 P132 BN132SA2 | 433 |
| 316 | 158 | 3.9 | 9.1 | 4930 | F412_9.1 S4 M4SA2 | 432 | F412_9.1 P132 BN132SA2 | 433 |

7.5 kW



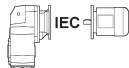

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 4.0 | 16387 | 0.9 | 361.8 | 55000 | F904_361.8 S4 M4LA4 | 450 | F904_361.8 P132 BN132MA4 | 451 |
| 4.9 | 13184 | 1.1 | 291.1 | 55000 | F904_291.1 S4 M4LA4 | 450 | F904_291.1 P132 BN132MA4 | 451 |
| 5.4 | 12170 | 1.2 | 268.7 | 55000 | F904_268.7 S4 M4LA4 | 450 | F904_268.7 P132 BN132MA4 | 451 |
| 6.2 | 10479 | 1.3 | 231.4 | 55000 | F904_231.4 S4 M4LA4 | 450 | F904_231.4 P132 BN132MA4 | 451 |
| 6.7 | 9673 | 1.4 | 213.6 | 55000 | F904_213.6 S4 M4LA4 | 450 | F904_213.6 P132 BN132MA4 | 451 |
| 7.4 | 8986 | 1.6 | 194.2 | 55000 | F903_194.2 S4 M4LA4 | 450 | F903_194.2 P132 BN132MA4 | 451 |
| 7.8 | 8544 | 0.9 | 184.6 | 45000 | F803_184.6 S4 M4LA4 | 447 | F803_184.6 P132 BN132MA4 | 448 |
| 8.0 | 8295 | 1.7 | 179.2 | 55000 | F903_179.2 S4 M4LA4 | 450 | F903_179.2 P132 BN132MA4 | 451 |
| 8.8 | 7536 | 1.9 | 162.8 | 55000 | F903_162.8 S4 M4LA4 | 450 | F903_162.8 P132 BN132MA4 | 451 |
| 9.0 | 7416 | 1.1 | 160.2 | 45000 | F803_160.2 S4 M4LA4 | 447 | F803_160.2 P132 BN132MA4 | 448 |
| 9.6 | 6956 | 2 | 150.3 | 55000 | F903_150.3 S4 M4LA4 | 450 | F903_150.3 P132 BN132MA4 | 451 |
| 9.7 | 6845 | 1.2 | 147.9 | 45000 | F803_147.9 S4 M4LA4 | 447 | F803_147.9 P132 BN132MA4 | 448 |
| 10.5 | 6356 | 2.2 | 137.3 | 55000 | F903_137.3 S4 M4LA4 | 450 | F903_137.3 P132 BN132MA4 | 451 |
| 10.9 | 6141 | 1.3 | 132.7 | 45000 | F803_132.7 S4 M4LA4 | 447 | F803_132.7 P132 BN132MA4 | 448 |
| 11.4 | 5867 | 2.4 | 126.8 | 55000 | F903_126.8 S4 M4LA4 | 450 | F903_126.8 P132 BN132MA4 | 451 |
| 11.8 | 5669 | 1.4 | 122.5 | 45000 | F803_122.5 S4 M4LA4 | 447 | F803_122.5 P132 BN132MA4 | 448 |
| 12.7 | 5265 | 1.5 | 113.8 | 45000 | F803_113.8 S4 M4LA4 | 447 | F803_113.8 P132 BN132MA4 | 448 |
| 12.9 | 5181 | 2.7 | 111.9 | 55000 | F903_111.9 S4 M4LA4 | 450 | F903_111.9 P132 BN132MA4 | 451 |
| 13.1 | 5073 | 1.0 | 109.6 | 35000 | F703_109.6 S4 M4LA4 | 444 | F703_109.6 P132 BN132MA4 | 445 |
| 13.9 | 4783 | 2.9 | 103.3 | 55000 | F903_103.3 S4 M4LA4 | 450 | F903_103.3 P132 BN132MA4 | 451 |
| 14.2 | 4683 | 1.1 | 101.2 | 35000 | F703_101.2 S4 M4LA4 | 444 | F703_101.2 P132 BN132MA4 | 445 |
| 15.0 | 4432 | 3.2 | 95.8 | 55000 | F903_95.8 S4 M4LA4 | 450 | F903_95.8 P132 BN132MA4 | 451 |
| 15.6 | 4281 | 1.2 | 92.5 | 35000 | F703_92.5 S4 M4LA4 | 444 | F703_92.5 P132 BN132MA4 | 445 |
| 15.6 | 4272 | 1.9 | 92.3 | 45000 | F803_92.3 S4 M4LA4 | 447 | F803_92.3 P132 BN132MA4 | 448 |
| 16.3 | 4091 | 3.4 | 88.4 | 55000 | F903_88.4 S4 M4LA4 | 450 | F903_88.4 P132 BN132MA4 | 451 |
| 16.9 | 3952 | 1.3 | 85.4 | 35000 | F703_85.4 S4 M4LA4 | 444 | F703_85.4 P132 BN132MA4 | 445 |
| 16.9 | 3944 | 2.0 | 85.2 | 45000 | F803_85.2 S4 M4LA4 | 447 | F803_85.2 P132 BN132MA4 | 448 |
| 18.9 | 3529 | 2.3 | 76.3 | 45000 | F803_76.3 S4 M4LA4 | 447 | F803_76.3 P132 BN132MA4 | 448 |
| 19.6 | 3404 | 1.5 | 73.6 | 35000 | F703_73.6 S4 M4LA4 | 444 | F703_73.6 P132 BN132MA4 | 445 |
| 20.5 | 3258 | 2.5 | 70.4 | 44700 | F803_70.4 S4 M4LA4 | 447 | F803_70.4 P132 BN132MA4 | 448 |
| 21.1 | 3160 | 0.9 | 68.3 | 20000 | F603_68.3 S4 M4LA4 | 440 | F603_68.3 P132 BN132MA4 | 441 |
| 21.2 | 3143 | 1.6 | 67.9 | 35000 | F703_67.9 S4 M4LA4 | 444 | F703_67.9 P132 BN132MA4 | 445 |
| 22.8 | 2917 | 1.0 | 63.0 | 20000 | F603_63.0 S4 M4LA4 | 440 | F603_63.0 P132 BN132MA4 | 441 |
| 23.0 | 2893 | 1.7 | 62.5 | 35000 | F703_62.5 S4 M4LA4 | 444 | F703_62.5 P132 BN132MA4 | 445 |
| 23.4 | 2844 | 2.8 | 61.5 | 43500 | F803_61.5 S4 M4LA4 | 447 | F803_61.5 P132 BN132MA4 | 448 |
| 25.0 | 2670 | 1.9 | 57.7 | 34900 | F703_57.7 S4 M4LA4 | 444 | F703_57.7 P132 BN132MA4 | 445 |
| 25.4 | 2626 | 3.0 | 56.7 | 42600 | F803_56.7 S4 M4LA4 | 447 | F803_56.7 P132 BN132MA4 | 448 |
| 27.8 | 2399 | 1.2 | 51.8 | 20000 | F603_51.8 S4 M4LA4 | 440 | F603_51.8 P132 BN132MA4 | 441 |
| 29.4 | 2266 | 2.2 | 49.0 | 33800 | F703_49.0 S4 M4LA4 | 444 | F703_49.0 P132 BN132MA4 | 445 |
| 30.0 | 2214 | 1.3 | 47.8 | 20000 | F603_47.8 S4 M4LA4 | 440 | F603_47.8 P132 BN132MA4 | 441 |
| 32 | 2092 | 2.4 | 45.2 | 33200 | F703_45.2 S4 M4LA4 | 444 | F703_45.2 P132 BN132MA4 | 445 |
| 34 | 1948 | 1.5 | 42.1 | 20000 | F603_42.1 S4 M4LA4 | 440 | F603_42.1 P132 BN132MA4 | 441 |

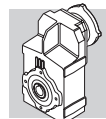


7.5 kW



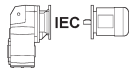

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 37 | 1798 | 1.6 | 38.8 | 20000 | F603_38.8 S4 M4LA4 | 440 | F603_38.8 P132 BN132MA4 | 441 |
| 39 | 1756 | 1.0 | 37.1 | 9090 | F512_37.1 S4 M4LA4 | 436 | F512_37.1 P132 BN132MA4 | 437 |
| 45 | 1485 | 2.0 | 32.1 | 20000 | F603_32.1 S4 M4LA4 | 440 | F603_32.1 P132 BN132MA4 | 441 |
| 48 | 1420 | 1.2 | 30.0 | 9010 | F512_30.0 S4 M4LA4 | 436 | F512_30.0 P132 BN132MA4 | 437 |
| 49 | 1371 | 2.1 | 29.6 | 20000 | F603_29.6 S4 M4LA4 | 440 | F603_29.6 P132 BN132MA4 | 441 |
| 57 | 1176 | 1.6 | 25.4 | 20000 | F603_25.4 S4 M4LA4 | 440 | F603_25.4 P132 BN132MA4 | 441 |
| 59 | 1137 | 3.5 | 24.6 | 28800 | F703_24.6 S4 M4LA4 | 444 | F703_24.6 P132 BN132MA4 | 445 |
| 60 | 1140 | 1.0 | 24.1 | 5500 | F412_24.1 S4 M4LA4 | 432 | F412_24.1 P132 BN132MA4 | 433 |
| 61 | 1125 | 1.5 | 23.8 | 8810 | F512_23.8 S4 M4LA4 | 436 | F512_23.8 P132 BN132MA4 | 437 |
| 61 | 1086 | 1.7 | 23.5 | 20000 | F603_23.5 S4 M4LA4 | 440 | F603_23.5 P132 BN132MA4 | 441 |
| 70 | 956 | 2.0 | 20.7 | 20000 | F603_20.7 S4 M4LA4 | 440 | F603_20.7 P132 BN132MA4 | 441 |
| 76 | 893 | 1.2 | 18.9 | 5630 | F412_18.9 S4 M4LA4 | 432 | F412_18.9 P132 BN132MA4 | 433 |
| 76 | 883 | 2.2 | 19.1 | 20000 | F603_19.1 S4 M4LA4 | 440 | F603_19.1 P132 BN132MA4 | 441 |
| 77 | 890 | 1.7 | 18.8 | 8520 | F512_18.8 S4 M4LA4 | 436 | F512_18.8 P132 BN132MA4 | 437 |
| 84 | 809 | 1.3 | 17.1 | 5650 | F412_17.1 S4 M4LA4 | 432 | F412_17.1 P132 BN132MA4 | 433 |
| 92 | 726 | 2.6 | 15.7 | 20000 | F603_15.7 S4 M4LA4 | 440 | F603_15.7 P132 BN132MA4 | 441 |
| 98 | 692 | 1.5 | 14.6 | 5630 | F412_14.6 S4 M4LA4 | 432 | F412_14.6 P132 BN132MA4 | 433 |
| 99 | 670 | 2.8 | 14.5 | 20000 | F603_14.5 S4 M4LA4 | 440 | F603_14.5 P132 BN132MA4 | 441 |
| 103 | 661 | 2.1 | 14.0 | 8080 | F512_14.0 S4 M4LA4 | 436 | F512_14.0 P132 BN132MA4 | 437 |
| 113 | 589 | 3.2 | 12.7 | 19900 | F603_12.7 S4 M4LA4 | 440 | F603_12.7 P132 BN132MA4 | 441 |
| 123 | 544 | 3.5 | 11.8 | 19500 | F603_11.8 S4 M4LA4 | 440 | F603_11.8 P132 BN132MA4 | 441 |
| 130 | 525 | 2.5 | 11.1 | 7700 | F512_11.1 S4 M4LA4 | 436 | F512_11.1 P132 BN132MA4 | 437 |
| 134 | 509 | 1.8 | 10.8 | 5490 | F412_10.8 S4 M4LA4 | 432 | F412_10.8 P132 BN132MA4 | 433 |
| 158 | 432 | 1.6 | 9.1 | 5410 | F412_9.1 S4 M4LA4 | 432 | F412_9.1 P132 BN132MA4 | 433 |
| 159 | 428 | 2.6 | 9.1 | 7290 | F512_9.1 S4 M4LA4 | 436 | F512_9.1 P132 BN132MA4 | 437 |
| 200 | 340 | 2.9 | 7.2 | 6900 | F512_7.2 S4 M4LA4 | 436 | F512_7.2 P132 BN132MA4 | 437 |
| 214 | 318 | 2.0 | 6.7 | 5140 | F412_6.7 S4 M4LA4 | 432 | F412_6.7 P132 BN132MA4 | 433 |
| 269 | 253 | 2.9 | 10.8 | 4880 | F412_10.8 S4 M4SB2 | 432 | F412_10.8 P132 BN132SB2 | 433 |
| 317 | 214 | 2.8 | 9.1 | 4730 | F412_9.1 S4 M4SB2 | 432 | F412_9.1 P132 BN132SB2 | 433 |
| 431 | 158 | 3.3 | 6.7 | 4390 | F412_6.7 S4 M4SB2 | 432 | F412_6.7 P132 BN132SB2 | 433 |

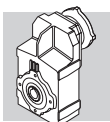
9.2 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-------|----------------------|---|--|---|---|
| 4.9 | 16172 | 0.9 | 291.1 | 55000 | F904_291.1 S4 M4LB4 | 450 | F904_291.1 P132 BN132MB4 | 451 |
| 5.4 | 14928 | 0.9 | 268.7 | 55000 | F904_268.7 S4 M4LB4 | 450 | F904_268.7 P132 BN132MB4 | 451 |
| 6.2 | 12854 | 1.1 | 231.4 | 55000 | F904_231.4 S4 M4LB4 | 450 | F904_231.4 P132 BN132MB4 | 451 |
| 6.7 | 11865 | 1.2 | 213.6 | 55000 | F904_213.6 S4 M4LB4 | 450 | F904_213.6 P132 BN132MB4 | 451 |
| 7.4 | 11023 | 1.3 | 194.2 | 55000 | F903_194.2 S4 M4LB4 | 450 | F903_194.2 P132 BN132MB4 | 451 |
| 8.0 | 10175 | 1.4 | 179.2 | 55000 | F903_179.2 S4 M4LB4 | 450 | F903_179.2 P132 BN132MB4 | 451 |
| 8.8 | 9244 | 1.5 | 162.8 | 55000 | F903_162.8 S4 M4LB4 | 450 | F903_162.8 P132 BN132MB4 | 451 |
| 9.6 | 8533 | 1.6 | 150.3 | 55000 | F903_150.3 S4 M4LB4 | 450 | F903_150.3 P132 BN132MB4 | 451 |
| 9.7 | 8397 | 1.0 | 147.9 | 45000 | F803_147.9 S4 M4LB4 | 447 | F803_147.9 P132 BN132MB4 | 448 |
| 10.5 | 7797 | 1.8 | 137.3 | 55000 | F903_137.3 S4 M4LB4 | 450 | F903_137.3 P132 BN132MB4 | 451 |
| 10.9 | 7533 | 1.1 | 132.7 | 45000 | F803_132.7 S4 M4LB4 | 447 | F803_132.7 P132 BN132MB4 | 448 |
| 11.4 | 7197 | 1.9 | 126.8 | 55000 | F903_126.8 S4 M4LB4 | 450 | F903_126.8 P132 BN132MB4 | 451 |
| 11.8 | 6954 | 1.2 | 122.5 | 45000 | F803_122.5 S4 M4LB4 | 447 | F803_122.5 P132 BN132MB4 | 448 |
| 12.7 | 6458 | 1.2 | 113.8 | 45000 | F803_113.8 S4 M4LB4 | 447 | F803_113.8 P132 BN132MB4 | 448 |



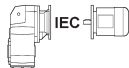



9.2 kW



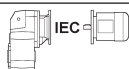

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 12.9 | 6355 | 2.2 | 111.9 | 55000 | F903_111.9 S4 M4LB4 | 450 | F903_111.9 P132 BN132MB4 | 451 |
| 13.9 | 5867 | 2.4 | 103.3 | 55000 | F903_103.3 S4 M4LB4 | 450 | F903_103.3 P132 BN132MB4 | 451 |
| 15.0 | 5437 | 2.6 | 95.8 | 55000 | F903_95.8 S4 M4LB4 | 450 | F903_95.8 P132 BN132MB4 | 451 |
| 15.6 | 5251 | 1.0 | 92.5 | 35000 | F703_92.5 S4 M4LB4 | 444 | F703_92.5 P132 BN132MB4 | 445 |
| 15.6 | 5241 | 1.5 | 92.3 | 45000 | F803_92.3 S4 M4LB4 | 447 | F803_92.3 P132 BN132MB4 | 448 |
| 16.3 | 5018 | 2.8 | 88.4 | 55000 | F903_88.4 S4 M4LB4 | 450 | F903_88.4 P132 BN132MB4 | 451 |
| 16.9 | 4848 | 1.0 | 85.4 | 35000 | F703_85.4 S4 M4LB4 | 444 | F703_85.4 P132 BN132MB4 | 445 |
| 16.9 | 4837 | 1.7 | 85.2 | 45000 | F803_85.2 S4 M4LB4 | 447 | F803_85.2 P132 BN132MB4 | 448 |
| 18.8 | 4352 | 3.2 | 76.7 | 55000 | F903_76.7 S4 M4LB4 | 450 | F903_76.7 P132 BN132MB4 | 451 |
| 18.9 | 4329 | 1.8 | 76.3 | 44100 | F803_76.3 S4 M4LB4 | 447 | F803_76.3 P132 BN132MB4 | 448 |
| 19.6 | 4176 | 1.2 | 73.6 | 35000 | F703_73.6 S4 M4LB4 | 444 | F703_73.6 P132 BN132MB4 | 445 |
| 20.4 | 4017 | 3.5 | 70.8 | 55000 | F903_70.8 S4 M4LB4 | 450 | F903_70.8 P132 BN132MB4 | 451 |
| 20.5 | 3996 | 2.0 | 70.4 | 43700 | F803_70.4 S4 M4LB4 | 447 | F803_70.4 P132 BN132MB4 | 448 |
| 21.2 | 3855 | 1.3 | 67.9 | 34600 | F703_67.9 S4 M4LB4 | 444 | F703_67.9 P132 BN132MB4 | 445 |
| 23.0 | 3548 | 1.4 | 62.5 | 34200 | F703_62.5 S4 M4LB4 | 444 | F703_62.5 P132 BN132MB4 | 445 |
| 23.4 | 3489 | 2.3 | 61.5 | 42200 | F803_61.5 S4 M4LB4 | 447 | F803_61.5 P132 BN132MB4 | 448 |
| 25.0 | 3275 | 1.5 | 57.7 | 33700 | F703_57.7 S4 M4LB4 | 444 | F703_57.7 P132 BN132MB4 | 445 |
| 25.4 | 3221 | 2.5 | 56.7 | 41400 | F803_56.7 S4 M4LB4 | 447 | F803_56.7 P132 BN132MB4 | 448 |
| 27.8 | 2942 | 1.0 | 51.8 | 20000 | F603_51.8 S4 M4LB4 | 440 | F603_51.8 P132 BN132MB4 | 441 |
| 29.4 | 2779 | 1.8 | 49.0 | 32800 | F703_49.0 S4 M4LB4 | 444 | F703_49.0 P132 BN132MB4 | 445 |
| 30.0 | 2716 | 1.1 | 47.8 | 20000 | F603_47.8 S4 M4LB4 | 440 | F603_47.8 P132 BN132MB4 | 441 |
| 32 | 2566 | 1.9 | 45.2 | 32300 | F703_45.2 S4 M4LB4 | 444 | F703_45.2 P132 BN132MB4 | 445 |
| 34 | 2389 | 1.2 | 42.1 | 20000 | F603_42.1 S4 M4LB4 | 440 | F603_42.1 P132 BN132MB4 | 441 |
| 37 | 2205 | 1.3 | 38.8 | 20000 | F603_38.8 S4 M4LB4 | 440 | F603_38.8 P132 BN132MB4 | 441 |
| 45 | 1821 | 1.6 | 32.1 | 20000 | F603_32.1 S4 M4LB4 | 440 | F603_32.1 P132 BN132MB4 | 441 |
| 48 | 1742 | 1.0 | 30.0 | 8210 | F512_30.0 S4 M4LB4 | 436 | F512_30.0 P132 BN132MB4 | 437 |
| 49 | 1681 | 1.7 | 29.6 | 20000 | F603_29.6 S4 M4LB4 | 440 | F603_29.6 P132 BN132MB4 | 441 |
| 57 | 1443 | 1.3 | 25.4 | 20000 | F603_25.4 S4 M4LB4 | 440 | F603_25.4 P132 BN132MB4 | 441 |
| 59 | 1394 | 2.9 | 24.6 | 28300 | F703_24.6 S4 M4LB4 | 444 | F703_24.6 P132 BN132MB4 | 445 |
| 61 | 1380 | 1.2 | 23.8 | 8170 | F512_23.8 S4 M4LB4 | 436 | F512_23.8 P132 BN132MB4 | 437 |
| 61 | 1332 | 1.4 | 23.5 | 20000 | F603_23.5 S4 M4LB4 | 440 | F603_23.5 P132 BN132MB4 | 441 |
| 64 | 1283 | 3.4 | 22.6 | 27800 | F703_22.6 S4 M4LB4 | 444 | F703_22.6 P132 BN132MB4 | 445 |
| 69 | 1185 | 3.4 | 20.9 | 27200 | F703_20.9 S4 M4LB4 | 444 | F703_20.9 P132 BN132MB4 | 445 |
| 70 | 1173 | 1.6 | 20.7 | 20000 | F603_20.7 S4 M4LB4 | 440 | F603_20.7 P132 BN132MB4 | 441 |
| 76 | 1096 | 1.0 | 18.9 | 4920 | F412_18.9 S4 M4LB4 | 432 | F412_18.9 P132 BN132MB4 | 433 |
| 76 | 1083 | 1.8 | 19.1 | 20000 | F603_19.1 S4 M4LB4 | 440 | F603_19.1 P132 BN132MB4 | 441 |
| 77 | 1092 | 1.4 | 18.8 | 8020 | F512_18.8 S4 M4LB4 | 436 | F512_18.8 P132 BN132MB4 | 437 |
| 84 | 993 | 1.1 | 17.1 | 5000 | F412_17.1 S4 M4LB4 | 432 | F412_17.1 P132 BN132MB4 | 433 |
| 92 | 890 | 2.1 | 15.7 | 20000 | F603_15.7 S4 M4LB4 | 440 | F603_15.7 P132 BN132MB4 | 441 |
| 98 | 848 | 1.2 | 14.6 | 5070 | F412_14.6 S4 M4LB4 | 432 | F412_14.6 P132 BN132MB4 | 433 |
| 99 | 822 | 2.3 | 14.5 | 20000 | F603_14.5 S4 M4LB4 | 440 | F603_14.5 P132 BN132MB4 | 441 |
| 103 | 811 | 1.8 | 14.0 | 7700 | F512_14.0 S4 M4LB4 | 436 | F512_14.0 P132 BN132MB4 | 437 |
| 113 | 723 | 2.6 | 12.7 | 19700 | F603_12.7 S4 M4LB4 | 440 | F603_12.7 P132 BN132MB4 | 441 |
| 123 | 667 | 2.8 | 11.8 | 19300 | F603_11.8 S4 M4LB4 | 440 | F603_11.8 P132 BN132MB4 | 441 |
| 130 | 644 | 2.1 | 11.1 | 7400 | F512_11.1 S4 M4LB4 | 436 | F512_11.1 P132 BN132MB4 | 437 |
| 134 | 625 | 1.4 | 10.8 | 5080 | F412_10.8 S4 M4LB4 | 432 | F412_10.8 P132 BN132MB4 | 433 |
| 148 | 551 | 3.4 | 9.7 | 18400 | F603_9.7 S4 M4LB4 | 440 | F603_9.7 P132 BN132MB4 | 441 |
| 158 | 530 | 1.3 | 9.1 | 5080 | F412_9.1 S4 M4LB4 | 432 | F412_9.1 P132 BN132MB4 | 433 |
| 159 | 525 | 2.1 | 9.1 | 7040 | F512_9.1 S4 M4LB4 | 436 | F512_9.1 P132 BN132MB4 | 437 |
| 200 | 417 | 2.3 | 7.2 | 6700 | F512_7.2 S4 M4LB4 | 436 | F512_7.2 P132 BN132MB4 | 437 |
| 214 | 390 | 1.6 | 6.7 | 4890 | F412_6.7 S4 M4LB4 | 432 | F412_6.7 P132 BN132MB4 | 433 |

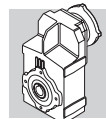


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

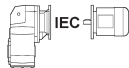

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 264 | 317 | 3.4 | 11.1 | 6340 | F512_11.1 S4 M4LA2 | 436 | F512_11.1 P132 BN132M2 | 437 |
| 272 | 307 | 2.4 | 10.8 | 4680 | F412_10.8 S4 M4LA2 | 432 | F412_10.8 P132 BN132M2 | 433 |
| 321 | 260 | 2.3 | 9.1 | 4560 | F412_9.1 S4 M4LA2 | 432 | F412_9.1 P132 BN132M2 | 433 |
| 324 | 258 | 3.5 | 9.1 | 5980 | F512_9.1 S4 M4LA2 | 436 | F512_9.1 P132 BN132M2 | 437 |
| 436 | 192 | 2.7 | 6.7 | 4270 | F412_6.7 S4 M4LA2 | 432 | F412_6.7 P132 BN132M2 | 433 |

11 kW



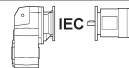

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 6.2 | 15369 | 0.9 | 231.4 | 55000 | F904_231.4 S4 M4LC4 | 450 | F904_231.4 P160 BN160MR4 | 451 |
| 6.7 | 14187 | 1.0 | 213.6 | 55000 | F904_213.6 S4 M4LC4 | 450 | F904_213.6 P160 BN160MR4 | 451 |
| 7.4 | 13179 | 1.1 | 194.2 | 55000 | F903_194.2 S4 M4LC4 | 450 | F903_194.2 P160 BN160MR4 | 451 |
| 8.0 | 12165 | 1.2 | 179.2 | 55000 | F903_179.2 S4 M4LC4 | 450 | F903_179.2 P160 BN160MR4 | 451 |
| 8.8 | 11053 | 1.3 | 162.8 | 55000 | F903_162.8 S4 M4LC4 | 450 | F903_162.8 P160 BN160MR4 | 451 |
| 9.6 | 10203 | 1.4 | 150.3 | 55000 | F903_150.3 S4 M4LC4 | 450 | F903_150.3 P160 BN160MR4 | 451 |
| 10.5 | 9323 | 1.5 | 137.3 | 55000 | F903_137.3 S4 M4LC4 | 450 | F903_137.3 P160 BN160MR4 | 451 |
| 11.4 | 8606 | 1.6 | 126.8 | 55000 | F903_126.8 S4 M4LC4 | 450 | F903_126.8 P160 BN160MR4 | 451 |
| 11.8 | 8314 | 1.0 | 122.5 | 45000 | F803_122.5 S4 M4LC4 | 447 | F803_122.5 P160 BN160MR4 | 448 |
| 12.7 | 7721 | 1.0 | 113.8 | 45000 | F803_113.8 S4 M4LC4 | 447 | F803_113.8 P160 BN160MR4 | 448 |
| 12.9 | 7599 | 1.8 | 111.9 | 55000 | F903_111.9 S4 M4LC4 | 450 | F903_111.9 P160 BN160MR4 | 451 |
| 13.9 | 7014 | 2.0 | 103.3 | 55000 | F903_103.3 S4 M4LC4 | 450 | F903_103.3 P160 BN160MR4 | 451 |
| 15.0 | 6500 | 2.2 | 95.8 | 55000 | F903_95.8 S4 M4LC4 | 450 | F903_95.8 P160 BN160MR4 | 451 |
| 15.6 | 6266 | 1.3 | 92.3 | 44100 | F803_92.3 S4 M4LC4 | 447 | F803_92.3 P160 BN160MR4 | 448 |
| 16.3 | 6000 | 2.3 | 88.4 | 55000 | F903_88.4 S4 M4LC4 | 450 | F903_88.4 P160 BN160MR4 | 451 |
| 16.9 | 5784 | 1.4 | 85.2 | 44000 | F803_85.2 S4 M4LC4 | 447 | F803_85.2 P160 BN160MR4 | 448 |
| 18.8 | 5203 | 2.7 | 76.7 | 55000 | F903_76.7 S4 M4LC4 | 450 | F903_76.7 P160 BN160MR4 | 451 |
| 18.9 | 5176 | 1.5 | 76.3 | 42800 | F803_76.3 S4 M4LC4 | 447 | F803_76.3 P160 BN160MR4 | 448 |
| 19.6 | 4993 | 1.0 | 73.6 | 33500 | F703_73.6 S4 M4LC4 | 444 | F703_73.6 P160 BN160MR4 | 445 |
| 20.4 | 4803 | 2.9 | 70.8 | 55000 | F903_70.8 S4 M4LC4 | 450 | F903_70.8 P160 BN160MR4 | 451 |
| 20.5 | 4778 | 1.7 | 70.4 | 42500 | F803_70.4 S4 M4LC4 | 447 | F803_70.4 P160 BN160MR4 | 448 |
| 21.2 | 4609 | 1.1 | 67.9 | 33100 | F703_67.9 S4 M4LC4 | 444 | F703_67.9 P160 BN160MR4 | 445 |
| 23.0 | 4243 | 1.2 | 62.5 | 32900 | F703_62.5 S4 M4LC4 | 444 | F703_62.5 P160 BN160MR4 | 445 |
| 23.2 | 4215 | 3.3 | 62.1 | 55000 | | | F903_62.1 P160 BN160MR4 | 451 |
| 23.4 | 4172 | 1.9 | 61.5 | 41100 | F803_61.5 S4 M4LC4 | 447 | F803_61.5 P160 BN160MR4 | 448 |
| 25.0 | 3916 | 1.3 | 57.7 | 32500 | F703_57.7 S4 M4LC4 | 444 | F703_57.7 P160 BN160MR4 | 445 |
| 25.4 | 3851 | 2.1 | 56.7 | 40800 | F803_56.7 S4 M4LC4 | 447 | F803_56.7 P160 BN160MR4 | 448 |
| 29.3 | 3333 | 2.4 | 49.1 | 39300 | | | F803_49.1 P160 BN160MR4 | 448 |
| 29.4 | 3323 | 1.5 | 49.0 | 31800 | F703_49.0 S4 M4LC4 | 444 | F703_49.0 P160 BN160MR4 | 445 |
| 32 | 3068 | 1.6 | 45.2 | 31300 | F703_45.2 S4 M4LC4 | 444 | F703_45.2 P160 BN160MR4 | 445 |
| 32 | 3077 | 2.6 | 45.3 | 38900 | | | F803_45.3 P160 BN160MR4 | 448 |
| 34 | 2857 | 1.0 | 42.1 | 20000 | F603_42.1 S4 M4LC4 | 440 | F603_42.1 P160 BN160MR4 | 441 |
| 37 | 2637 | 1.1 | 38.8 | 20000 | F603_38.8 S4 M4LC4 | 440 | F603_38.8 P160 BN160MR4 | 441 |
| 38 | 2606 | 1.9 | 38.4 | 30500 | | | F703_38.4 P160 BN160MR4 | 445 |
| 41 | 2406 | 2.1 | 35.4 | 30000 | | | F703_35.4 P160 BN160MR4 | 445 |
| 45 | 2178 | 1.3 | 32.1 | 20000 | F603_32.1 S4 M4LC4 | 440 | F603_32.1 P160 BN160MR4 | 441 |
| 49 | 2010 | 1.4 | 29.6 | 20000 | F603_29.6 S4 M4LC4 | 440 | F603_29.6 P160 BN160MR4 | 441 |
| 52 | 1880 | 2.5 | 27.7 | 28500 | | | F703_27.7 P160 BN160MR4 | 445 |
| 57 | 1725 | 1.1 | 25.4 | 20000 | F603_25.4 S4 M4LC4 | 440 | F603_25.4 P160 BN160MR4 | 441 |

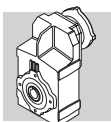


11 kW





| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 59 | 1667 | 2.4 | 24.6 | 27800 | F703_24.6 S4 M4LC4 | 444 | F703_24.6 P160 BN160MR4 | 445 |
| 61 | 1650 | 1.0 | 23.8 | 7500 | F512_23.8 S4 M4LC4 | 436 | F512_23.8 P160 BN160MR4 | 437 |
| 61 | 1593 | 1.2 | 23.5 | 20000 | F603_23.5 S4 M4LC4 | 440 | F603_23.5 P160 BN160MR4 | 441 |
| 64 | 1534 | 2.8 | 22.6 | 27300 | F703_22.6 S4 M4LC4 | 444 | F703_22.6 P160 BN160MR4 | 445 |
| 69 | 1416 | 2.8 | 20.9 | 26800 | F703_20.9 S4 M4LC4 | 444 | F703_20.9 P160 BN160MR4 | 445 |
| 70 | 1402 | 1.4 | 20.7 | 20000 | F603_20.7 S4 M4LC4 | 440 | F603_20.7 P160 BN160MR4 | 441 |
| 76 | 1294 | 1.5 | 19.1 | 20000 | F603_19.1 S4 M4LC4 | 440 | F603_19.1 P160 BN160MR4 | 441 |
| 77 | 1305 | 1.2 | 18.8 | 7490 | F512_18.8 S4 M4LC4 | 436 | F512_18.8 P160 BN160MR4 | 437 |
| 92 | 1064 | 1.8 | 15.7 | 20000 | F603_15.7 S4 M4LC4 | 440 | F603_15.7 P160 BN160MR4 | 441 |
| 98 | 1014 | 1.0 | 14.6 | 4490 | F412_14.6 S4 M4LC4 | 432 | | |
| 99 | 982 | 1.9 | 14.5 | 20000 | F603_14.5 S4 M4LC4 | 440 | F603_14.5 P160 BN160MR4 | 441 |
| 103 | 969 | 1.5 | 14.0 | 7310 | F512_14.0 S4 M4LC4 | 436 | F512_14.0 P160 BN160MR4 | 437 |
| 113 | 864 | 2.2 | 12.7 | 19400 | F603_12.7 S4 M4LC4 | 440 | F603_12.7 P160 BN160MR4 | 441 |
| 123 | 798 | 2.4 | 11.8 | 19000 | F603_11.8 S4 M4LC4 | 440 | F603_11.8 P160 BN160MR4 | 441 |
| 130 | 770 | 1.7 | 11.1 | 7090 | F512_11.1 S4 M4LC4 | 436 | F512_11.1 P160 BN160MR4 | 437 |
| 134 | 747 | 1.2 | 10.8 | 4650 | F412_10.8 S4 M4LC4 | 432 | | |
| 148 | 659 | 2.9 | 9.7 | 18200 | F603_9.7 S4 M4LC4 | 440 | F603_9.7 P160 BN160MR4 | 441 |
| 158 | 633 | 1.1 | 9.1 | 4720 | F412_9.1 S4 M4LC4 | 432 | | |
| 159 | 628 | 1.8 | 9.1 | 6770 | F512_9.1 S4 M4LC4 | 436 | F512_9.1 P160 BN160MR4 | 437 |
| 161 | 608 | 3.1 | 9.0 | 17800 | F603_9.0 S4 M4LC4 | 440 | F603_9.0 P160 BN160MR4 | 441 |
| 200 | 499 | 2.0 | 7.2 | 6490 | F512_7.2 S4 M4LC4 | 436 | F512_7.2 P160 BN160MR4 | 437 |
| 214 | 466 | 1.4 | 6.7 | 4630 | F412_6.7 S4 M4LC4 | 432 | | |
| 263 | 380 | 2.8 | 11.1 | 6170 | F512_11.1 S4 M4LC2 | 436 | F512_11.1 P160 BN160MR2 | 437 |
| 271 | 368 | 2.0 | 10.8 | 4460 | F412_10.8 S4 M4LC2 | 432 | | |
| 320 | 312 | 2.0 | 9.1 | 4380 | F412_9.1 S4 M4LC2 | 432 | | |
| 323 | 310 | 2.9 | 9.1 | 5840 | F512_9.1 S4 M4LC2 | 436 | F512_9.1 P160 BN160MR2 | 437 |
| 406 | 246 | 3.2 | 7.2 | 5510 | F512_7.2 S4 M4LC2 | 436 | F512_7.2 P160 BN160MR2 | 437 |
| 434 | 230 | 2.3 | 6.7 | 4130 | F412_6.7 S4 M4LC2 | 432 | | |

15 kW



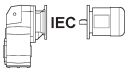

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 8.1 | 16362 | 0.9 | 179.2 | 55000 | F903_179.2 S5 M5SB4 | 450 | F903_179.2 P160 BN160L4 | 451 |
| 9.0 | 14866 | 0.9 | 162.8 | 55000 | F903_162.8 S5 M5SB4 | 450 | F903_162.8 P160 BN160L4 | 451 |
| 9.7 | 13722 | 1.0 | 150.3 | 55000 | F903_150.3 S5 M5SB4 | 450 | F903_150.3 P160 BN160L4 | 451 |
| 10.6 | 12539 | 1.1 | 137.3 | 55000 | F903_137.3 S5 M5SB4 | 450 | F903_137.3 P160 BN160L4 | 451 |
| 11.5 | 11574 | 1.2 | 126.8 | 55000 | F903_126.8 S5 M5SB4 | 450 | F903_126.8 P160 BN160L4 | 451 |
| 13.0 | 10220 | 1.4 | 111.9 | 55000 | F903_111.9 S5 M5SB4 | 450 | F903_111.9 P160 BN160L4 | 451 |
| 14.1 | 9434 | 1.5 | 103.3 | 55000 | F903_103.3 S5 M5SB4 | 450 | F903_103.3 P160 BN160L4 | 451 |
| 15.2 | 8743 | 1.6 | 95.8 | 55000 | F903_95.8 S5 M5SB4 | 450 | F903_95.8 P160 BN160L4 | 451 |
| 15.8 | 8427 | 0.9 | 92.3 | 41300 | F803_92.3 S5 M5SB4 | 447 | F803_92.3 P160 BN160L4 | 448 |
| 16.5 | 8070 | 1.7 | 88.4 | 55000 | F903_88.4 S5 M5SB4 | 450 | F903_88.4 P160 BN160L4 | 451 |
| 17.1 | 7779 | 1.0 | 85.2 | 40800 | F803_85.2 S5 M5SB4 | 447 | F803_85.2 P160 BN160L4 | 448 |
| 19.0 | 6998 | 2.0 | 76.7 | 55000 | F903_76.7 S5 M5SB4 | 450 | F903_76.7 P160 BN160L4 | 451 |
| 19.1 | 6961 | 1.1 | 76.3 | 40500 | F803_76.3 S5 M5SB4 | 447 | F803_76.3 P160 BN160L4 | 448 |
| 20.6 | 6460 | 2.2 | 70.8 | 55000 | F903_70.8 S5 M5SB4 | 450 | F903_70.8 P160 BN160L4 | 451 |
| 20.7 | 6426 | 1.2 | 70.4 | 39900 | F803_70.4 S5 M5SB4 | 447 | F803_70.4 P160 BN160L4 | 448 |
| 23.5 | 5669 | 2.5 | 62.1 | 55000 | | | F903_62.1 P160 BN160L4 | 451 |

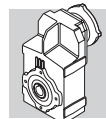


15 kW



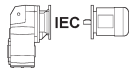

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 23.8 | 5611 | 1.4 | 61.5 | 38700 | F803_61.5 S5 M5SB4 | 447 | F803_61.5 P160 BN160L4 | 448 |
| 25.3 | 5267 | 0.9 | 57.7 | 29700 | F703_57.7 S5 M5SB4 | 444 | F703_57.7 P160 BN160L4 | 445 |
| 25.5 | 5233 | 2.7 | 57.3 | 55000 | | | F903_57.3 P160 BN160L4 | 451 |
| 25.7 | 5179 | 1.5 | 56.7 | 38600 | F803_56.7 S5 M5SB4 | 447 | F803_56.7 P160 BN160L4 | 448 |
| 29.7 | 4483 | 1.8 | 49.1 | 37800 | | | F803_49.1 P160 BN160L4 | 448 |
| 29.8 | 4470 | 1.1 | 49.0 | 29400 | F703_49.0 S5 M5SB4 | 444 | F703_49.0 P160 BN160L4 | 445 |
| 32 | 4126 | 1.2 | 45.2 | 29100 | F703_45.2 S5 M5SB4 | 444 | F703_45.2 P160 BN160L4 | 445 |
| 32 | 4138 | 1.9 | 45.3 | 37200 | | | F803_45.3 P160 BN160L4 | 448 |
| 38 | 3505 | 1.4 | 38.4 | 28600 | | | F703_38.4 P160 BN160L4 | 445 |
| 41 | 3235 | 1.5 | 35.4 | 28200 | | | F703_35.4 P160 BN160L4 | 445 |
| 46 | 2929 | 1.0 | 32.1 | 20000 | F603_32.1 S5 M5SB4 | 440 | F603_32.1 P160 BN160L4 | 441 |
| 49 | 2704 | 1.1 | 29.6 | 20000 | F603_29.6 S5 M5SB4 | 440 | F603_29.6 P160 BN160L4 | 441 |
| 53 | 2528 | 1.8 | 27.7 | 27100 | | | F703_27.7 P160 BN160L4 | 445 |
| 58 | 2303 | 2.7 | 25.2 | 32900 | F803_25.2 S5 M5SB4 | 447 | F803_25.2 P160 BN160L4 | 448 |
| 59 | 2242 | 1.8 | 24.6 | 26500 | F703_24.6 S5 M5SB4 | 444 | F703_24.6 P160 BN160L4 | 445 |
| 65 | 2064 | 2.1 | 22.6 | 26200 | F703_22.6 S5 M5SB4 | 444 | F703_22.6 P160 BN160L4 | 445 |
| 66 | 2011 | 3.4 | 22.0 | 31900 | F803_22.0 S5 M5SB4 | 447 | F803_22.0 P160 BN160L4 | 448 |
| 70 | 1905 | 2.1 | 20.9 | 25700 | F703_20.9 S5 M5SB4 | 444 | F703_20.9 P160 BN160L4 | 445 |
| 71 | 1886 | 1.0 | 20.7 | 20000 | F603_20.7 S5 M5SB4 | 440 | F603_20.7 P160 BN160L4 | 441 |
| 72 | 1856 | 3.4 | 20.3 | 31300 | F803_20.3 S5 M5SB4 | 447 | F803_20.3 P160 BN160L4 | 448 |
| 77 | 1741 | 1.1 | 19.1 | 20000 | F603_19.1 S5 M5SB4 | 440 | F603_19.1 P160 BN160L4 | 441 |
| 82 | 1617 | 2.7 | 17.7 | 24900 | F703_17.7 S5 M5SB4 | 444 | F703_17.7 P160 BN160L4 | 445 |
| 89 | 1492 | 2.7 | 16.3 | 24400 | F703_16.3 S5 M5SB4 | 444 | F703_16.3 P160 BN160L4 | 445 |
| 93 | 1432 | 1.3 | 15.7 | 19600 | F603_15.7 S5 M5SB4 | 440 | F603_15.7 P160 BN160L4 | 441 |
| 101 | 1321 | 1.4 | 14.5 | 19200 | F603_14.5 S5 M5SB4 | 440 | F603_14.5 P160 BN160L4 | 441 |
| 105 | 1268 | 3.1 | 13.9 | 23600 | F703_13.9 S5 M5SB4 | 444 | F703_13.9 P160 BN160L4 | 445 |
| 114 | 1170 | 3.1 | 12.8 | 23100 | F703_12.8 S5 M5SB4 | 444 | F703_12.8 P160 BN160L4 | 445 |
| 115 | 1162 | 1.6 | 12.7 | 18800 | F603_12.7 S5 M5SB4 | 440 | F603_12.7 P160 BN160L4 | 441 |
| 124 | 1073 | 1.8 | 11.8 | 18400 | F603_11.8 S5 M5SB4 | 440 | F603_11.8 P160 BN160L4 | 441 |
| 135 | 991 | 3.5 | 10.9 | 22300 | F703_10.9 S5 M5SB4 | 444 | F703_10.9 P160 BN160L4 | 445 |
| 146 | 914 | 3.5 | 10.0 | 21800 | F703_10.0 S5 M5SB4 | 444 | F703_10.0 P160 BN160L4 | 445 |
| 150 | 886 | 2.1 | 9.7 | 17700 | F603_9.7 S5 M5SB4 | 440 | F603_9.7 P160 BN160L4 | 441 |
| 163 | 818 | 2.3 | 9.0 | 17300 | F603_9.0 S5 M5SB4 | 440 | F603_9.0 P160 BN160L4 | 441 |

18.5 kW





| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 10.6 | 15456 | 0.9 | 137.3 | 55000 | F903_137.3 S5 M5LA4 | 450 | F903_137.3 P180 BN180M4 | 451 |
| 11.5 | 14267 | 1.0 | 126.8 | 55000 | F903_126.8 S5 M5LA4 | 450 | F903_126.8 P180 BN180M4 | 451 |
| 13.0 | 12598 | 1.1 | 111.9 | 55000 | F903_111.9 S5 M5LA4 | 450 | F903_111.9 P180 BN180M4 | 451 |
| 14.1 | 11629 | 1.2 | 103.3 | 55000 | F903_103.3 S5 M5LA4 | 450 | F903_103.3 P180 BN180M4 | 451 |
| 15.2 | 10777 | 1.3 | 95.8 | 55000 | F903_95.8 S5 M5LA4 | 450 | F903_95.8 P180 BN180M4 | 451 |
| 16.5 | 9948 | 1.4 | 88.4 | 55000 | F903_88.4 S5 M5LA4 | 450 | F903_88.4 P180 BN180M4 | 451 |
| 19.0 | 8626 | 1.6 | 76.7 | 55000 | F903_76.7 S5 M5LA4 | 450 | F903_76.7 P180 BN180M4 | 451 |
| 19.1 | 8581 | 0.9 | 76.3 | 38100 | F803_76.3 S5 M5LA4 | 447 | F803_76.3 P180 BN180M4 | 448 |
| 20.6 | 7963 | 1.8 | 70.8 | 55000 | F903_70.8 S5 M5LA4 | 450 | F903_70.8 P180 BN180M4 | 451 |
| 20.7 | 7921 | 1.0 | 70.4 | 37600 | F803_70.4 S5 M5LA4 | 447 | F803_70.4 P180 BN180M4 | 448 |
| 23.5 | 6989 | 2.0 | 62.1 | 55000 | | | F903_62.1 P180 BN180M4 | 451 |

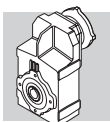


18.5 kW



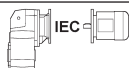

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 23.8 | 6916 | 1.1 | 61.5 | 37400 | F803_61.5 S5 M5LA4 | 447 | F803_61.5 P180 BN180M4 | 448 |
| 25.5 | 6451 | 2.2 | 57.3 | 55000 | | | F903_57.3 P180 BN180M4 | 451 |
| 25.7 | 6384 | 1.3 | 56.7 | 36800 | F803_56.7 S5 M5LA4 | 447 | F803_56.7 P180 BN180M4 | 448 |
| 29.3 | 5615 | 2.5 | 49.9 | 55000 | | | F903_49.9 P180 BN180M4 | 451 |
| 29.7 | 5526 | 1.4 | 49.1 | 35800 | F703_49.0 S5 M5LA4 | 444 | F803_49.1 P180 BN180M4 | 448 |
| 29.8 | 5510 | 0.9 | 49.0 | 27400 | | | F703_49.0 P180 BN180M4 | 445 |
| 32 | 5183 | 2.7 | 46.1 | 55000 | | | F903_46.1 P180 BN180M4 | 451 |
| 32 | 5101 | 1.6 | 45.3 | 35700 | | | F803_45.3 P180 BN180M4 | 448 |
| 32 | 5086 | 1.0 | 45.2 | 27200 | | | F703_45.2 P180 BN180M4 | 445 |
| 36 | 4558 | 3.1 | 40.5 | 53700 | | | F903_40.5 P180 BN180M4 | 451 |
| 37 | 4389 | 1.8 | 39.0 | 35000 | | | F803_39.0 P180 BN180M4 | 448 |
| 38 | 4321 | 1.2 | 38.4 | 27000 | | | F703_38.4 P180 BN180M4 | 445 |
| 39 | 4207 | 3.2 | 37.4 | 52700 | | | F903_37.4 P180 BN180M4 | 451 |
| 41 | 4051 | 2.0 | 36.0 | 34400 | | | F803_36.0 P180 BN180M4 | 448 |
| 41 | 3988 | 1.3 | 35.4 | 26700 | | | F703_35.4 P180 BN180M4 | 445 |
| 47 | 3517 | 2.3 | 31.3 | 33600 | | | F803_31.3 P180 BN180M4 | 448 |
| 49 | 3376 | 1.5 | 30.0 | 26300 | | | F703_30.0 P180 BN180M4 | 445 |
| 51 | 3246 | 2.5 | 28.8 | 33000 | | | F803_28.8 P180 BN180M4 | 448 |
| 53 | 3116 | 1.5 | 27.7 | 26000 | | | F703_27.7 P180 BN180M4 | 445 |
| 58 | 2839 | 2.2 | 25.2 | 32100 | F803_25.2 S5 M5LA4 | 447 | F803_25.2 P180 BN180M4 | 448 |
| 59 | 2764 | 1.4 | 24.6 | 25500 | F703_24.6 S5 M5LA4 | 444 | F703_24.6 P180 BN180M4 | 445 |
| 65 | 2544 | 1.7 | 22.6 | 25200 | F703_22.6 S5 M5LA4 | 444 | F703_22.6 P180 BN180M4 | 445 |
| 66 | 2479 | 2.7 | 22.0 | 31300 | F803_22.0 S5 M5LA4 | 447 | F803_22.0 P180 BN180M4 | 448 |
| 70 | 2348 | 1.7 | 20.9 | 24900 | F703_20.9 S5 M5LA4 | 444 | F703_20.9 P180 BN180M4 | 445 |
| 72 | 2288 | 2.7 | 20.3 | 30600 | F803_20.3 S5 M5LA4 | 447 | F803_20.3 P180 BN180M4 | 448 |
| 82 | 1993 | 2.2 | 17.7 | 24200 | F703_17.7 S5 M5LA4 | 444 | F703_17.7 P180 BN180M4 | 445 |
| 83 | 1981 | 3.4 | 17.6 | 29700 | F803_17.6 S5 M5LA4 | 447 | F803_17.6 P180 BN180M4 | 448 |
| 89 | 1839 | 2.2 | 16.3 | 23800 | F703_16.3 S5 M5LA4 | 444 | F703_16.3 P180 BN180M4 | 445 |
| 90 | 1828 | 3.4 | 16.2 | 29100 | F803_16.2 S5 M5LA4 | 447 | F803_16.2 P180 BN180M4 | 448 |
| 93 | 1765 | 1.1 | 15.7 | 18700 | F603_15.7 S5 M5LA4 | 440 | F603_15.7 P180 BN180M4 | 441 |
| 101 | 1629 | 1.2 | 14.5 | 18600 | F603_14.5 S5 M5LA4 | 440 | F603_14.5 P180 BN180M4 | 441 |
| 105 | 1563 | 2.5 | 13.9 | 23000 | F703_13.9 S5 M5LA4 | 444 | F703_13.9 P180 BN180M4 | 445 |
| 114 | 1442 | 2.5 | 12.8 | 22600 | F703_12.8 S5 M5LA4 | 444 | F703_12.8 P180 BN180M4 | 445 |
| 115 | 1433 | 1.3 | 12.7 | 18300 | F603_12.7 S5 M5LA4 | 440 | F603_12.7 P180 BN180M4 | 441 |
| 124 | 1323 | 1.4 | 11.8 | 17900 | F603_11.8 S5 M5LA4 | 440 | F603_11.8 P180 BN180M4 | 441 |
| 135 | 1221 | 2.8 | 10.9 | 21800 | F703_10.9 S5 M5LA4 | 444 | F703_10.9 P180 BN180M4 | 445 |
| 146 | 1127 | 2.8 | 10.0 | 21400 | F703_10.0 S5 M5LA4 | 444 | F703_10.0 P180 BN180M4 | 445 |
| 150 | 1092 | 1.7 | 9.7 | 17300 | F603_9.7 S5 M5LA4 | 440 | F603_9.7 P180 BN180M4 | 441 |
| 163 | 1008 | 1.9 | 9.0 | 16900 | F603_9.0 S5 M5LA4 | 440 | F603_9.0 P180 BN180M4 | 441 |

22 kW



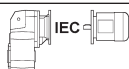

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-------|---------------|---|--|---|---|
| 13.1 | 14880 | 0.9 | 111.9 | 55000 | | | F903_111.9 P180 BN180L4 | 451 |
| 14.2 | 13735 | 1.0 | 103.3 | 55000 | | | F903_103.3 P180 BN180L4 | 451 |
| 15.4 | 12728 | 1.1 | 95.8 | 55000 | | | F903_95.8 P180 BN180L4 | 451 |
| 16.6 | 11749 | 1.2 | 88.4 | 55000 | | | F903_88.4 P180 BN180L4 | 451 |
| 19.2 | 10188 | 1.4 | 76.7 | 55000 | | | F903_76.7 P180 BN180L4 | 451 |

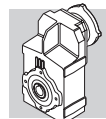


22 kW



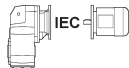

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 20.8 | 9405 | 1.5 | 70.8 | 55000 | | | F903_70.8 P180 BN180L4 | 451 |
| 23.7 | 8254 | 1.7 | 62.1 | 55000 | | | F903_62.1 P180 BN180L4 | 451 |
| 23.9 | 8169 | 1.0 | 61.5 | 35400 | | | F803_61.5 P180 BN180L4 | 448 |
| 25.6 | 7619 | 1.8 | 57.3 | 55000 | | | F903_57.3 P180 BN180L4 | 451 |
| 25.9 | 7541 | 1.1 | 56.7 | 35000 | | | F803_56.7 P180 BN180L4 | 448 |
| 29.5 | 6632 | 2.1 | 49.9 | 54400 | | | F903_49.9 P180 BN180L4 | 451 |
| 29.9 | 6527 | 1.2 | 49.1 | 34100 | | | F803_49.1 P180 BN180L4 | 448 |
| 32 | 6122 | 2.3 | 46.1 | 53500 | | | F903_46.1 P180 BN180L4 | 451 |
| 32 | 6025 | 1.3 | 45.3 | 34300 | | | F803_45.3 P180 BN180L4 | 448 |
| 36 | 5383 | 2.6 | 40.5 | 52300 | | | F903_40.5 P180 BN180L4 | 451 |
| 38 | 5184 | 1.5 | 39.0 | 33300 | | | F803_39.0 P180 BN180L4 | 448 |
| 38 | 5103 | 1 | 38.4 | 25400 | | | F703_38.4 P180 BN180L4 | 445 |
| 39 | 4969 | 2.7 | 37.4 | 51400 | | | F903_37.4 P180 BN180L4 | 451 |
| 41 | 4785 | 1.7 | 36.0 | 33200 | | | F803_36.0 P180 BN180L4 | 448 |
| 41 | 4711 | 1.1 | 35.4 | 25300 | | | F703_35.4 P180 BN180L4 | 445 |
| 47 | 4154 | 1.9 | 31.3 | 32600 | | | F803_31.3 P180 BN180L4 | 448 |
| 47 | 4120 | 3.2 | 31.0 | 49500 | | | F903_31.0 P180 BN180L4 | 451 |
| 49 | 3988 | 1.3 | 30.0 | 25100 | | | F703_30.0 P180 BN180L4 | 445 |
| 51 | 3834 | 2.1 | 28.8 | 32000 | | | F803_28.8 P180 BN180L4 | 448 |
| 51 | 3803 | 3.2 | 28.6 | 48600 | | | F903_28.6 P180 BN180L4 | 451 |
| 53 | 3681 | 1.3 | 27.7 | 24800 | | | F703_27.7 P180 BN180L4 | 445 |
| 58 | 3353 | 1.9 | 25.2 | 31300 | | | F803_25.2 P180 BN180L4 | 448 |
| 60 | 3264 | 1.2 | 24.6 | 24500 | | | F703_24.6 P180 BN180L4 | 445 |
| 65 | 3005 | 1.4 | 22.6 | 24300 | | | F703_22.6 P180 BN180L4 | 445 |
| 67 | 2928 | 2.3 | 22 | 30200 | | | F803_22.0 P180 BN180L4 | 448 |
| 70 | 2773 | 1.4 | 20.9 | 24000 | | | F703_20.9 P180 BN180L4 | 445 |
| 72 | 2703 | 2.3 | 20.3 | 29900 | | | F803_20.3 P180 BN180L4 | 448 |
| 83 | 2354 | 1.8 | 17.7 | 23400 | | | F703_17.7 P180 BN180L4 | 445 |
| 84 | 2339 | 2.9 | 17.6 | 29100 | | | F803_17.6 P180 BN180L4 | 448 |
| 90 | 2173 | 1.8 | 16.3 | 23100 | | | F703_16.3 P180 BN180L4 | 445 |
| 90 | 2159 | 2.9 | 16.2 | 28500 | | | F803_16.2 P180 BN180L4 | 448 |
| 106 | 1846 | 2.1 | 13.9 | 22400 | | | F703_13.9 P180 BN180L4 | 445 |
| 115 | 1704 | 2.1 | 12.8 | 22100 | | | F703_12.8 P180 BN180L4 | 445 |
| 115 | 1692 | 1.1 | 12.7 | 17700 | | | F603_12.7 P180 BN180L4 | 441 |
| 125 | 1562 | 1.2 | 11.8 | 17400 | | | F603_11.8 P180 BN180L4 | 441 |
| 135 | 1442 | 2.4 | 10.9 | 21400 | | | F703_10.9 P180 BN180L4 | 445 |
| 147 | 1331 | 2.4 | 10.0 | 21000 | | | F703_10.0 P180 BN180L4 | 445 |
| 151 | 1290 | 1.5 | 9.7 | 16900 | | | F603_9.7 P180 BN180L4 | 441 |
| 164 | 1191 | 1.6 | 9.0 | 16500 | | | F603_9.0 P180 BN180L4 | 441 |

30 kW



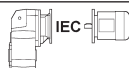

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 16.6 | 16022 | 0.9 | 88.4 | 52200 | | | F903_88.4 P200 BN200L4 | 451 |
| 19.2 | 13893 | 1.0 | 76.7 | 52400 | | | F903_76.7 P200 BN200L4 | 451 |
| 20.8 | 12825 | 1.1 | 70.8 | 52100 | | | F903_70.8 P200 BN200L4 | 451 |
| 23.7 | 11256 | 1.2 | 62.1 | 51800 | | | F903_62.1 P200 BN200L4 | 451 |

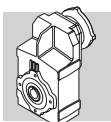


30 kW



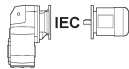

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 25.6 | 10390 | 1.3 | 57.3 | 51400 | | | F903_57.3 P200 BN200L4 | 451 |
| 29.5 | 9044 | 1.5 | 49.9 | 50800 | | | F903_49.9 P200 BN200L4 | 451 |
| 32 | 8348 | 1.7 | 46.1 | 50200 | | | F903_46.1 P200 BN200L4 | 451 |
| 32 | 8216 | 1.0 | 45.3 | 30900 | | | F803_45.3 P200 BN200L4 | 448 |
| 36 | 7341 | 1.9 | 40.5 | 49400 | | | F903_40.5 P200 BN200L4 | 451 |
| 38 | 7069 | 1.1 | 39.0 | 31000 | | | F803_39.0 P200 BN200L4 | 448 |
| 39 | 6776 | 2.0 | 37.4 | 48700 | | | F903_37.4 P200 BN200L4 | 451 |
| 41 | 6525 | 1.2 | 36.0 | 30600 | | | F803_36.0 P200 BN200L4 | 448 |
| 47 | 5664 | 1.4 | 31.3 | 29900 | | | F803_31.3 P200 BN200L4 | 448 |
| 47 | 5618 | 2.3 | 31.0 | 47300 | | | F903_31.0 P200 BN200L4 | 451 |
| 49 | 5438 | 0.9 | 30.0 | 22300 | | | F703_30.0 P200 BN200L4 | 445 |
| 51 | 5229 | 1.5 | 28.8 | 29500 | | | F803_28.8 P200 BN200L4 | 448 |
| 51 | 5186 | 2.3 | 28.6 | 46600 | | | F903_28.6 P200 BN200L4 | 451 |
| 53 | 5019 | 0.9 | 27.7 | 22200 | | | F703_27.7 P200 BN200L4 | 445 |
| 58 | 4601 | 2.6 | 25.4 | 45500 | | | F903_25.4 P200 BN200L4 | 451 |
| 58 | 4572 | 1.2 | 25.2 | 29500 | | | F803_25.2 P200 BN200L4 | 448 |
| 66 | 4039 | 3.0 | 22.3 | 44400 | | | F903_22.3 P200 BN200L4 | 451 |
| 67 | 3992 | 1.7 | 22.0 | 29000 | | | F803_22.0 P200 BN200L4 | 448 |
| 71 | 3728 | 3.0 | 20.6 | 43600 | | | F903_20.6 P200 BN200L4 | 451 |
| 72 | 3685 | 1.7 | 20.3 | 28500 | | | F803_20.3 P200 BN200L4 | 448 |
| 83 | 3209 | 1.4 | 17.7 | 21800 | | | F703_17.7 P200 BN200L4 | 445 |
| 84 | 3190 | 2.1 | 17.6 | 27900 | | | F803_17.6 P200 BN200L4 | 448 |
| 90 | 2963 | 1.4 | 16.3 | 21500 | | | F703_16.3 P200 BN200L4 | 445 |
| 90 | 2945 | 2.1 | 16.2 | 27400 | | | F803_16.2 P200 BN200L4 | 448 |
| 105 | 2534 | 2.7 | 14.0 | 26700 | | | F803_14.0 P200 BN200L4 | 448 |
| 106 | 2517 | 1.5 | 13.9 | 21100 | | | F703_13.9 P200 BN200L4 | 445 |
| 114 | 2339 | 2.7 | 12.9 | 26200 | | | F803_12.9 P200 BN200L4 | 448 |
| 115 | 2323 | 1.5 | 12.8 | 20900 | | | F703_12.8 P200 BN200L4 | 445 |
| 135 | 1967 | 1.8 | 10.9 | 20300 | | | F703_10.9 P200 BN200L4 | 445 |
| 142 | 1874 | 3.0 | 10.3 | 24900 | | | F803_10.3 P200 BN200L4 | 448 |
| 147 | 1815 | 1.8 | 10.0 | 20000 | | | F703_10.0 P200 BN200L4 | 445 |

37 kW



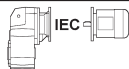

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 20.9 | 15710 | 0.9 | 70.8 | 47600 | | | F903_70.8 P225 BN225S4 | 451 |
| 25.8 | 12728 | 1.1 | 57.3 | 47700 | | | F903_57.3 P225 BN225S4 | 451 |
| 29.7 | 11079 | 1.3 | 49.9 | 47600 | | | F903_49.9 P225 BN225S4 | 451 |
| 32 | 10227 | 1.4 | 46.1 | 47200 | | | F903_46.1 P225 BN225S4 | 451 |
| 37 | 8993 | 1.6 | 40.5 | 46800 | | | F903_40.5 P225 BN225S4 | 451 |
| 38 | 8659 | 0.9 | 39.0 | 28500 | | | F803_39.0 P225 BN225S4 | 448 |
| 40 | 8301 | 1.6 | 37.4 | 46300 | | | F903_37.4 P225 BN225S4 | 451 |
| 41 | 7993 | 1.0 | 36.0 | 28300 | | | F803_36.0 P225 BN225S4 | 448 |
| 47 | 6939 | 1.2 | 31.3 | 28400 | | | F803_31.3 P225 BN225S4 | 448 |
| 48 | 6882 | 1.9 | 31.0 | 45300 | | | F903_31.0 P225 BN225S4 | 451 |
| 51 | 6405 | 1.2 | 28.8 | 28100 | | | F803_28.8 P225 BN225S4 | 448 |
| 52 | 6353 | 1.9 | 28.6 | 44700 | | | F903_28.6 P225 BN225S4 | 451 |
| 58 | 5637 | 2.1 | 25.4 | 43900 | | | F903_25.4 P225 BN225S4 | 451 |

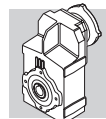


37 kW



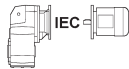

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 59 | 5601 | 1.1 | 25.2 | 27800 | | | F803_25.2 P225 BN225S4 | 448 |
| 66 | 4947 | 2.4 | 22.3 | 43000 | | | F903_22.3 P225 BN225S4 | 451 |
| 67 | 4891 | 1.1 | 22.0 | 27600 | | | F803_22.0 P225 BN225S4 | 448 |
| 72 | 4567 | 2.5 | 20.6 | 42300 | | | F903_20.6 P225 BN225S4 | 451 |
| 73 | 4515 | 1.1 | 20.3 | 27200 | | | F803_20.3 P225 BN225S4 | 448 |
| 83 | 3975 | 2.8 | 17.9 | 41200 | | | F903_17.9 P225 BN225S4 | 451 |
| 84 | 3908 | 1.7 | 17.6 | 26800 | | | F803_17.6 P225 BN225S4 | 448 |
| 90 | 3669 | 2.8 | 16.5 | 40500 | | | F903_16.5 P225 BN225S4 | 451 |
| 91 | 3607 | 1.7 | 16.2 | 26300 | | | F803_16.2 P225 BN225S4 | 448 |
| 102 | 3226 | 3.1 | 14.5 | 39500 | | | F903_14.5 P225 BN225S4 | 451 |
| 106 | 3104 | 2.2 | 14.0 | 25800 | | | F803_14.0 P225 BN225S4 | 448 |
| 110 | 2978 | 3.1 | 13.4 | 38700 | | | F903_13.4 P225 BN225S4 | 451 |
| 115 | 2865 | 2.2 | 12.9 | 25300 | | | F803_12.9 P225 BN225S4 | 448 |
| 132 | 2487 | 2.4 | 11.2 | 24500 | | | F803_11.2 P225 BN225S4 | 448 |
| 143 | 2296 | 2.4 | 10.3 | 24300 | | | F803_10.3 P225 BN225S4 | 448 |

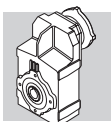
45 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 32 | 12438 | 1.1 | 46.1 | 43900 | | | F903_46.1 P225 BN225M4 | 451 |
| 37 | 10937 | 1.3 | 40.5 | 43900 | | | F903_40.5 P225 BN225M4 | 451 |
| 40 | 10096 | 1.3 | 37.4 | 43600 | | | F903_37.4 P225 BN225M4 | 451 |
| 47 | 8439 | 0.9 | 31.3 | 26100 | | | F803_31.3 P225 BN225M4 | 448 |
| 48 | 8370 | 1.6 | 31.0 | 43100 | | | F903_31.0 P225 BN225M4 | 451 |
| 51 | 7790 | 1.0 | 28.8 | 26000 | | | F803_28.8 P225 BN225M4 | 448 |
| 52 | 7726 | 1.6 | 28.6 | 42600 | | | F903_28.6 P225 BN225M4 | 451 |
| 58 | 6855 | 1.8 | 25.4 | 42000 | | | F903_25.4 P225 BN225M4 | 451 |
| 66 | 6017 | 2.0 | 22.3 | 41400 | | | F903_22.3 P225 BN225M4 | 451 |
| 67 | 5948 | 1.1 | 22.0 | 26000 | | | F803_22.0 P225 BN225M4 | 448 |
| 72 | 5554 | 2.0 | 20.6 | 40800 | | | F903_20.6 P225 BN225M4 | 451 |
| 73 | 5491 | 1.1 | 20.3 | 25700 | | | F803_20.3 P225 BN225M4 | 448 |
| 83 | 4834 | 2.3 | 17.9 | 39900 | | | F903_17.9 P225 BN225M4 | 451 |
| 84 | 4753 | 1.4 | 17.6 | 25500 | | | F803_17.6 P225 BN225M4 | 448 |
| 90 | 4463 | 2.3 | 16.5 | 39300 | | | F903_16.5 P225 BN225M4 | 451 |
| 91 | 4387 | 1.4 | 16.2 | 25200 | | | F803_16.2 P225 BN225M4 | 448 |
| 102 | 3924 | 2.5 | 14.5 | 38400 | | | F903_14.5 P225 BN225M4 | 451 |
| 106 | 3775 | 1.8 | 14.0 | 24800 | | | F803_14.0 P225 BN225M4 | 448 |
| 110 | 3622 | 2.6 | 13.4 | 37800 | | | F903_13.4 P225 BN225M4 | 451 |
| 115 | 3484 | 1.8 | 12.9 | 24100 | | | F803_12.9 P225 BN225M4 | 448 |
| 132 | 3025 | 1.5 | 11.2 | 24000 | | | F803_11.2 P225 BN225M4 | 448 |
| 133 | 3003 | 2.9 | 11.1 | 36400 | | | F903_11.1 P225 BN225M4 | 451 |
| 143 | 2792 | 2.0 | 10.3 | 23500 | | | F803_10.3 P225 BN225M4 | 448 |





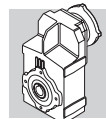
55 kW

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 32 | 15202 | 0.9 | 46.1 | 39700 | | | F903_46.1 P250 BN250M4 | 451 |
| 37 | 13367 | 1.0 | 40.5 | 40300 | | | F903_40.5 P250 BN250M4 | 451 |
| 40 | 12339 | 1.1 | 37.4 | 40200 | | | F903_37.4 P250 BN250M4 | 451 |
| 48 | 10230 | 1.3 | 31.0 | 40300 | | | F903_31.0 P250 BN250M4 | 451 |
| 52 | 9443 | 1.3 | 28.6 | 40100 | | | F903_28.6 P250 BN250M4 | 451 |
| 58 | 8379 | 1.4 | 25.4 | 39700 | | | F903_25.4 P250 BN250M4 | 451 |
| 66 | 7354 | 1.6 | 22.3 | 39400 | | | F903_22.3 P250 BN250M4 | 451 |
| 72 | 6788 | 1.7 | 20.6 | 38900 | | | F903_20.6 P250 BN250M4 | 451 |
| 83 | 5909 | 1.9 | 17.9 | 38300 | | | F903_17.9 P250 BN250M4 | 451 |
| 90 | 5454 | 1.9 | 16.5 | 37800 | | | F903_16.5 P250 BN250M4 | 451 |
| 102 | 4796 | 2.1 | 14.5 | 37100 | | | F903_14.5 P250 BN250M4 | 451 |
| 110 | 4427 | 2.1 | 13.4 | 36600 | | | F903_13.4 P250 BN250M4 | 451 |
| 133 | 3671 | 2.4 | 11.1 | 35400 | | | F903_11.1 P250 BN250M4 | 451 |
| 144 | 3388 | 2.4 | 10.3 | 34800 | | | F903_10.3 P250 BN250M4 | 451 |





F 10 **140 Nm**

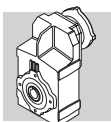
|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 10 2_7.4 | 7.4 | 378 | 63 | 2.6 | 1000 | 1290 | 189 | 76 | 1.6 | 1290 | 1640 | 417 |
| F 10 2_8.6 | 8.6 | 326 | 67 | 2.4 | 980 | 1350 | 163 | 82 | 1.5 | 1260 | 1710 | |
| F 10 2_9.8 | 9.8 | 287 | 73 | 2.3 | 980 | 1410 | 143 | 89 | 1.4 | 1250 | 1780 | |
| F 10 2_11.5 | 11.5 | 243 | 78 | 2.1 | 950 | 1480 | 121 | 96 | 1.3 | 1220 | 1870 | |
| F 10 2_13.0 | 13.0 | 215 | 85 | 2.0 | 940 | 1530 | 107 | 104 | 1.2 | 1210 | 1940 | |
| F 10 2_14.6 | 14.6 | 191 | 94 | 2.0 | 1120 | 1590 | 96 | 119 | 1.3 | 1300 | 2000 | |
| F 10 2_17.0 | 17.0 | 165 | 104 | 1.9 | 1090 | 1650 | 82 | 128 | 1.2 | 1300 | 2090 | |
| F 10 2_19.3 | 19.3 | 145 | 108 | 1.7 | 1100 | 1730 | 72 | 136 | 1.1 | 1300 | 2180 | |
| F 10 2_22.8 | 22.8 | 123 | 119 | 1.6 | 1080 | 1810 | 61 | 140 | 0.95 | 1300 | 2310 | |
| F 10 2_25.8 | 25.8 | 109 | 123 | 1.5 | 1090 | 1890 | 54 | 140 | 0.84 | 1300 | 2430 | |
| F 10 2_29.6 | 29.6 | 94 | 132 | 1.4 | 1060 | 1970 | 47 | 140 | 0.73 | 1300 | 2560 | |
| F 10 2_33.0 | 33.0 | 85 | 137 | 1.3 | 1070 | 2040 | 42 | 140 | 0.65 | 1300 | 2670 | |
| F 10 2_35.3 | 35.3 | 79 | 140 | 1.2 | 1060 | 2090 | 40 | 140 | 0.61 | 1300 | 2740 | |
| F 10 2_39.6 | 39.6 | 71 | 140 | 1.1 | 1080 | 2190 | 35 | 140 | 0.54 | 1300 | 2800 | |
| F 10 2_44.7 | 44.7 | 63 | 140 | 0.97 | 1080 | 2290 | 31 | 140 | 0.48 | 1300 | 2800 | |
| F 10 2_48.7 | 48.7 | 57 | 140 | 0.89 | 1090 | 2370 | 28.7 | 140 | 0.44 | 1300 | 2800 | |
| F 10 2_56.7 | 56.7 | 49 | 140 | 0.76 | 1100 | 2520 | 24.7 | 140 | 0.38 | 1300 | 2800 | |
| F 10 2_63.0 | 63.0 | 44 | 140 | 0.69 | 1110 | 2620 | 22.2 | 140 | 0.34 | 1300 | 2800 | |
| F 10 2_71.1 | 71.1 | 39 | 140 | 0.61 | 1000 | 2750 | 19.7 | 140 | 0.30 | 1300 | 2800 | |
| F 10 2_81.3 | 81.3 | 34 | 140 | 0.53 | 1110 | 2800 | 17.2 | 140 | 0.27 | 1300 | 2800 | |
| F 10 2_91.5 | 91.5 | 31 | 140 | 0.47 | 1110 | 2800 | 15.3 | 140 | 0.24 | 1300 | 2800 | |
| F 10 2_106.0 | 106.0 | 26.4 | 140 | 0.41 | 1120 | 2800 | 13.2 | 140 | 0.20 | 1300 | 2800 | |
| F 10 2_127.1 | 127.1 | 22.0 | 140 | 0.34 | 1130 | 2800 | 11.0 | 140 | 0.17 | 1300 | 2800 | |





F 10

140 Nm

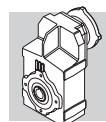
|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 10 2_7.4 | 7.4 | 122 | 91 | 1.2 | 1300 | 1890 | 68 | 111 | 0.83 | 1300 | 2300 | 417 |
| F 10 2_8.6 | 8.6 | 105 | 94 | 1.1 | 1300 | 1970 | 58 | 112 | 0.72 | 1300 | 2430 | |
| F 10 2_9.8 | 9.8 | 92 | 107 | 1.1 | 1300 | 2050 | 51 | 130 | 0.73 | 1300 | 2490 | |
| F 10 2_11.5 | 11.5 | 78 | 110 | 0.95 | 1300 | 2180 | 43 | 131 | 0.63 | 1300 | 2660 | |
| F 10 2_13.0 | 13.0 | 69 | 124 | 0.94 | 1300 | 2240 | 38 | 140 | 0.59 | 1300 | 2800 | |
| F 10 2_14.6 | 14.6 | 61 | 138 | 0.93 | 1300 | 2320 | 34 | 140 | 0.53 | 1300 | 2800 | |
| F 10 2_17.0 | 17.0 | 53 | 140 | 0.82 | 1300 | 2450 | 29.5 | 140 | 0.46 | 1300 | 2800 | |
| F 10 2_19.3 | 19.3 | 47 | 140 | 0.72 | 1300 | 2580 | 25.9 | 140 | 0.40 | 1300 | 2800 | |
| F 10 2_22.8 | 22.8 | 39 | 140 | 0.61 | 1300 | 2750 | 21.9 | 140 | 0.34 | 1300 | 2800 | |
| F 10 2_25.8 | 25.8 | 35 | 140 | 0.54 | 1300 | 2800 | 19.4 | 140 | 0.30 | 1300 | 2800 | |
| F 10 2_29.6 | 29.6 | 30 | 140 | 0.47 | 1300 | 2800 | 16.9 | 140 | 0.26 | 1300 | 2800 | |
| F 10 2_33.0 | 33.0 | 27.3 | 140 | 0.42 | 1300 | 2800 | 15.2 | 140 | 0.23 | 1300 | 2800 | |
| F 10 2_35.3 | 35.3 | 25.5 | 140 | 0.39 | 1300 | 2800 | 14.1 | 140 | 0.22 | 1300 | 2800 | |
| F 10 2_39.6 | 39.6 | 22.7 | 140 | 0.35 | 1300 | 2800 | 12.6 | 140 | 0.19 | 1300 | 2800 | |
| F 10 2_44.7 | 44.7 | 20.1 | 140 | 0.31 | 1300 | 2800 | 11.2 | 140 | 0.17 | 1300 | 2800 | |
| F 10 2_48.7 | 48.7 | 18.5 | 140 | 0.29 | 1300 | 2800 | 10.3 | 140 | 0.16 | 1300 | 2800 | |
| F 10 2_56.7 | 56.7 | 15.9 | 140 | 0.24 | 1300 | 2800 | 8.8 | 140 | 0.14 | 1300 | 2800 | |
| F 10 2_63.0 | 63.0 | 14.3 | 140 | 0.22 | 1300 | 2800 | 7.9 | 140 | 0.12 | 1300 | 2800 | |
| F 10 2_71.1 | 71.1 | 12.7 | 140 | 0.20 | 1300 | 2800 | 7.0 | 140 | 0.11 | 1300 | 2800 | |
| F 10 2_81.3 | 81.3 | 11.1 | 140 | 0.17 | 1300 | 2800 | 6.1 | 140 | 0.09 | 1300 | 2800 | |
| F 10 2_91.5 | 91.5 | 9.8 | 140 | 0.15 | 1300 | 2800 | 5.5 | 140 | 0.08 | 1300 | 2800 | |
| F 10 2_106.0 | 106.0 | 8.5 | 140 | 0.13 | 1300 | 2800 | 4.7 | 140 | 0.07 | 1300 | 2800 | |
| F 10 2_127.1 | 127.1 | 7.1 | 140 | 0.11 | 1300 | 2800 | 3.9 | 140 | 0.06 | 1300 | 2800 | |



F 20 250 Nm



|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 20 2_6.4 | 6.4 | 437 | 103 | 5.0 | — | 1370 | 218 | 130 | 3.1 | — | 1720 | 421 |
| F 20 2_7.8 | 7.8 | 357 | 115 | 4.5 | — | 1440 | 179 | 144 | 2.8 | — | 1820 | |
| F 20 2_8.7 | 8.7 | 321 | 123 | 4.3 | — | 1490 | 160 | 155 | 2.7 | — | 1870 | |
| F 20 2_10.0 | 10.0 | 279 | 131 | 4.0 | — | 1550 | 140 | 165 | 2.5 | — | 1950 | |
| F 20 2_11.2 | 11.2 | 249 | 141 | 3.9 | — | 1590 | 125 | 177 | 2.4 | — | 2010 | |
| F 20 2_14.8 | 14.8 | 189 | 166 | 3.5 | 760 | 1740 | 95 | 203 | 2.1 | 1010 | 2210 | |
| F 20 2_18.1 | 18.1 | 155 | 175 | 3.0 | 750 | 1870 | 77 | 213 | 1.8 | 1020 | 2380 | |
| F 20 2_20.2 | 20.2 | 139 | 182 | 2.8 | 810 | 1940 | 69 | 223 | 1.7 | 1070 | 2460 | |
| F 20 2_23.1 | 23.1 | 121 | 190 | 2.5 | 770 | 2030 | 60 | 235 | 1.6 | 1000 | 2570 | |
| F 20 2_25.9 | 25.9 | 108 | 196 | 2.3 | 830 | 2110 | 54 | 240 | 1.4 | 1100 | 2680 | |
| F 20 2_30.4 | 30.4 | 92 | 205 | 2.1 | 780 | 2230 | 46 | 250 | 1.3 | 1050 | 2840 | |
| F 20 2_33.1 | 33.1 | 85 | 210 | 2.0 | 800 | 2300 | 42 | 250 | 1.2 | 1120 | 2940 | |
| F 20 2_37.9 | 37.9 | 74 | 220 | 1.8 | 740 | 2400 | 37 | 250 | 1.0 | 1130 | 3110 | |
| F 20 2_41.8 | 41.8 | 67 | 225 | 1.7 | 780 | 2490 | 33 | 250 | 0.92 | 1220 | 3240 | |
| F 20 2_44.8 | 44.8 | 62 | 235 | 1.6 | 690 | 2540 | 31 | 250 | 0.86 | 1200 | 3330 | |
| F 20 2_50.7 | 50.7 | 55 | 238 | 1.4 | 780 | 2660 | 27.6 | 250 | 0.76 | 1320 | 3500 | |
| F 20 2_56.7 | 56.7 | 49 | 250 | 1.4 | 730 | 2750 | 24.7 | 250 | 0.68 | 1360 | 3660 | |
| F 20 2_61.9 | 61.9 | 45 | 250 | 1.2 | 750 | 2860 | 22.6 | 250 | 0.62 | 1370 | 3790 | |
| F 20 2_69.1 | 69.1 | 40 | 250 | 1.1 | 760 | 2990 | 20.2 | 250 | 0.56 | 1370 | 3950 | |
| F 20 2_76.8 | 76.8 | 36 | 250 | 1.0 | 780 | 3130 | 18.2 | 250 | 0.50 | 1380 | 4000 | |
| F 20 2_90.4 | 90.4 | 31 | 250 | 0.85 | 830 | 3340 | 15.5 | 250 | 0.43 | 1390 | 4000 | |
| F 20 2_101.6 | 101.6 | 27.5 | 250 | 0.76 | 830 | 3500 | 13.8 | 250 | 0.38 | 1390 | 4000 | |
| F 20 2_114.3 | 114.3 | 24.5 | 250 | 0.67 | 850 | 3670 | 12.2 | 250 | 0.34 | 1400 | 4000 | |
| F 20 2_132.2 | 132.2 | 21.2 | 250 | 0.58 | 870 | 3890 | 10.6 | 250 | 0.29 | 1400 | 4000 | |
| F 20 3_156.3 | 156.3 | 17.9 | 250 | 0.50 | 1170 | 4000 | 9.0 | 250 | 0.25 | 1300 | 4000 | |
| F 20 3_172.6 | 172.6 | 16.2 | 250 | 0.46 | 1200 | 4000 | 8.1 | 250 | 0.23 | 1300 | 4000 | |
| F 20 3_184.9 | 184.9 | 15.1 | 250 | 0.43 | 1210 | 4000 | 7.6 | 250 | 0.21 | 1300 | 4000 | |
| F 20 3_209.3 | 209.3 | 13.4 | 250 | 0.38 | 1240 | 4000 | 6.7 | 250 | 0.19 | 1300 | 4000 | |
| F 20 3_234.0 | 234.0 | 12.0 | 250 | 0.34 | 1270 | 4000 | 6.0 | 250 | 0.17 | 1300 | 4000 | |
| F 20 3_255.3 | 255.3 | 11.0 | 250 | 0.31 | 1280 | 4000 | 5.5 | 250 | 0.15 | 1300 | 4000 | |
| F 20 3_285.2 | 285.2 | 9.8 | 250 | 0.28 | 1300 | 4000 | 4.9 | 250 | 0.14 | 1300 | 4000 | |
| F 20 3_316.9 | 316.9 | 8.8 | 250 | 0.25 | 1300 | 4000 | 4.4 | 250 | 0.12 | 1300 | 4000 | |
| F 20 3_372.9 | 372.9 | 7.5 | 250 | 0.21 | 1300 | 4000 | 3.8 | 250 | 0.11 | 1300 | 4000 | |
| F 20 3_419.3 | 419.3 | 6.7 | 250 | 0.19 | 1300 | 4000 | 3.3 | 250 | 0.09 | 1300 | 4000 | |
| F 20 3_471.7 | 471.7 | 5.9 | 250 | 0.17 | 1300 | 4000 | 3.0 | 250 | 0.08 | 1300 | 4000 | |
| F 20 3_545.3 | 545.3 | 5.1 | 250 | 0.14 | 1300 | 4000 | 2.6 | 250 | 0.07 | 1300 | 4000 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

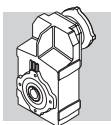


F 20

250 Nm

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 20 2_6.4 | 6.4 | 140 | 150 | 2.3 | — | 1990 | 218 | 183 | 4.4 | — | 2420 | 421 |
| F 20 2_7.8 | 7.8 | 115 | 167 | 2.1 | — | 2110 | 64 | 189 | 1.3 | — | 2610 | |
| F 20 2_8.7 | 8.7 | 103 | 180 | 2.0 | — | 2170 | 57 | 219 | 1.4 | — | 2640 | |
| F 20 2_10.0 | 10.0 | 90 | 191 | 1.9 | — | 2260 | 50 | 221 | 1.2 | — | 2790 | |
| F 20 2_11.2 | 11.2 | 80 | 205 | 1.8 | — | 2330 | 45 | 250 | 1.2 | — | 2830 | |
| F 20 2_14.8 | 14.8 | 61 | 232 | 1.6 | 1210 | 2570 | 34 | 250 | 0.93 | 1790 | 3230 | |
| F 20 2_18.1 | 18.1 | 50 | 250 | 1.4 | 1150 | 2740 | 27.7 | 250 | 0.76 | 1910 | 3500 | |
| F 20 2_20.2 | 20.2 | 45 | 250 | 1.2 | 1320 | 2870 | 24.8 | 250 | 0.68 | 1960 | 3650 | |
| F 20 2_23.1 | 23.1 | 39 | 250 | 1.1 | 1350 | 3040 | 21.6 | 250 | 0.60 | 1970 | 3860 | |
| F 20 2_25.9 | 25.9 | 35 | 250 | 0.96 | 1500 | 3190 | 19.3 | 250 | 0.53 | 2010 | 4000 | |
| F 20 2_30.4 | 30.4 | 29.6 | 250 | 0.82 | 1530 | 3400 | 16.5 | 250 | 0.45 | 2020 | 4000 | |
| F 20 2_33.1 | 33.1 | 27.2 | 250 | 0.75 | 1580 | 3520 | 15.1 | 250 | 0.42 | 2040 | 4000 | |
| F 20 2_37.9 | 37.9 | 23.8 | 250 | 0.65 | 1590 | 3720 | 13.2 | 250 | 0.36 | 2040 | 4000 | |
| F 20 2_41.8 | 41.8 | 21.5 | 250 | 0.59 | 1610 | 3870 | 12.0 | 250 | 0.33 | 2070 | 4000 | |
| F 20 2_44.8 | 44.8 | 20.1 | 250 | 0.55 | 1610 | 3970 | 11.2 | 250 | 0.31 | 2060 | 4000 | |
| F 20 2_50.7 | 50.7 | 17.7 | 250 | 0.49 | 1640 | 4000 | 9.9 | 250 | 0.27 | 2090 | 4000 | |
| F 20 2_56.7 | 56.7 | 15.9 | 250 | 0.44 | 1650 | 4000 | 8.8 | 250 | 0.24 | 2110 | 4000 | |
| F 20 2_61.9 | 61.9 | 14.5 | 250 | 0.40 | 1660 | 4000 | 8.1 | 250 | 0.22 | 2110 | 4000 | |
| F 20 2_69.1 | 69.1 | 13.0 | 250 | 0.36 | 1660 | 4000 | 7.2 | 250 | 0.20 | 2110 | 4000 | |
| F 20 2_76.8 | 76.8 | 11.7 | 250 | 0.32 | 1670 | 4000 | 6.5 | 250 | 0.18 | 2120 | 4000 | |
| F 20 2_90.4 | 90.4 | 10.0 | 250 | 0.27 | 1680 | 4000 | 5.5 | 250 | 0.15 | 2130 | 4000 | |
| F 20 2_101.6 | 101.6 | 8.9 | 250 | 0.24 | 1680 | 4000 | 4.9 | 250 | 0.14 | 2130 | 4000 | |
| F 20 2_114.3 | 114.3 | 7.9 | 250 | 0.22 | 1690 | 4000 | 4.4 | 250 | 0.12 | 2140 | 4000 | |
| F 20 2_132.2 | 132.2 | 6.8 | 250 | 0.19 | 1690 | 4000 | 3.8 | 250 | 0.10 | 2150 | 4000 | |
| F 20 3_156.3 | 156.3 | 5.8 | 250 | 0.16 | 1300 | 4000 | 3.2 | 250 | 0.09 | 1300 | 4000 | |
| F 20 3_172.6 | 172.6 | 5.2 | 250 | 0.15 | 1300 | 4000 | 2.9 | 250 | 0.08 | 1300 | 4000 | |
| F 20 3_184.9 | 184.9 | 4.9 | 250 | 0.14 | 1300 | 4000 | 2.7 | 250 | 0.08 | 1300 | 4000 | |
| F 20 3_209.3 | 209.3 | 4.3 | 250 | 0.12 | 1300 | 4000 | 2.4 | 250 | 0.07 | 1300 | 4000 | |
| F 20 3_234.0 | 234.0 | 3.8 | 250 | 0.11 | 1300 | 4000 | 2.1 | 250 | 0.06 | 1300 | 4000 | |
| F 20 3_255.3 | 255.3 | 3.5 | 250 | 0.10 | 1300 | 4000 | 2.0 | 250 | 0.06 | 1300 | 4000 | |
| F 20 3_285.2 | 285.2 | 3.2 | 250 | 0.09 | 1300 | 4000 | 1.8 | 250 | 0.05 | 1300 | 4000 | |
| F 20 3_316.9 | 316.9 | 2.8 | 250 | 0.08 | 1300 | 4000 | 1.6 | 250 | 0.04 | 1300 | 4000 | |
| F 20 3_372.9 | 372.9 | 2.4 | 250 | 0.07 | 1300 | 4000 | 1.3 | 250 | 0.04 | 1300 | 4000 | |
| F 20 3_419.3 | 419.3 | 2.1 | 250 | 0.06 | 1300 | 4000 | 1.2 | 250 | 0.03 | 1300 | 4000 | |
| F 20 3_471.7 | 471.7 | 1.9 | 250 | 0.05 | 1300 | 4000 | 1.1 | 250 | 0.03 | 1300 | 4000 | |
| F 20 3_545.3 | 545.3 | 1.7 | 250 | 0.05 | 1300 | 4000 | 0.92 | 250 | 0.03 | 1300 | 4000 | |

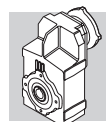
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



F 25 400 Nm



| | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | | |
|---------------------|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|-----|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 25 2_6.9 | 6.9 | 408 | 155 | 7.0 | — | 1840 | 204 | 195 | 4.4 | — | 2320 | 425 |
| F 25 2_8.4 | 8.4 | 334 | 170 | 6.3 | — | 1950 | 167 | 215 | 4.0 | — | 2450 | |
| F 25 2_9.4 | 9.4 | 299 | 180 | 5.9 | — | 2010 | 150 | 225 | 3.7 | — | 2540 | |
| F 25 2_10.6 | 10.6 | 264 | 240 | 7.0 | — | 1850 | 132 | 305 | 4.4 | — | 2320 | |
| F 25 2_13.0 | 13.0 | 216 | 255 | 6.1 | — | 1990 | 108 | 320 | 3.8 | — | 2510 | |
| F 25 2_14.5 | 14.5 | 194 | 260 | 5.5 | — | 2080 | 97 | 330 | 3.5 | — | 2610 | |
| F 25 2_16.6 | 16.6 | 168 | 270 | 5.0 | — | 2190 | 84 | 340 | 3.2 | — | 2760 | |
| F 25 2_18.6 | 18.6 | 150 | 280 | 4.6 | — | 2270 | 75 | 350 | 2.9 | — | 2870 | |
| F 25 2_21.8 | 21.8 | 128 | 280 | 4.0 | — | 2460 | 64 | 355 | 2.5 | 250 | 3090 | |
| F 25 2_23.8 | 23.8 | 118 | 285 | 3.7 | 250 | 2540 | 59 | 360 | 2.3 | 300 | 3200 | |
| F 25 2_27.2 | 27.2 | 103 | 290 | 3.3 | 250 | 2690 | 51 | 365 | 2.1 | 320 | 3400 | |
| F 25 2_30.0 | 30.0 | 93 | 295 | 3.0 | 310 | 2800 | 47 | 370 | 1.9 | 410 | 3540 | |
| F 25 2_32.2 | 32.2 | 87 | 295 | 2.8 | 310 | 2900 | 44 | 370 | 1.8 | 410 | 3660 | |
| F 25 2_36.4 | 36.4 | 77 | 295 | 2.5 | 460 | 3070 | 38 | 370 | 1.6 | 600 | 3880 | |
| F 25 2_40.7 | 40.7 | 69 | 295 | 2.2 | 560 | 3230 | 34 | 370 | 1.4 | 720 | 4080 | |
| F 25 2_44.4 | 44.4 | 63 | 295 | 2.0 | 720 | 3360 | 32 | 370 | 1.3 | 720 | 4250 | |
| F 25 3_45.6 | 45.6 | 61 | 340 | 2.4 | 1440 | 3100 | 31 | 400 | 1.4 | 1830 | 4030 | |
| F 25 3_50.8 | 50.8 | 55 | 350 | 2.2 | 1450 | 3230 | 27.6 | 400 | 1.2 | 1850 | 4250 | |
| F 25 3_58.3 | 58.3 | 48 | 365 | 2.0 | 1450 | 3390 | 24.0 | 400 | 1.1 | 1860 | 4530 | |
| F 25 3_65.3 | 65.3 | 43 | 375 | 1.8 | 1450 | 3530 | 21.4 | 400 | 0.97 | 1870 | 4780 | |
| F 25 3_76.6 | 76.6 | 37 | 395 | 1.6 | 1450 | 3730 | 18.3 | 400 | 0.82 | 1880 | 5140 | |
| F 25 3_83.4 | 83.4 | 34 | 400 | 1.5 | 1450 | 3860 | 16.8 | 400 | 0.76 | 1880 | 5330 | |
| F 25 3_95.5 | 95.5 | 29.3 | 400 | 1.3 | 1460 | 4130 | 14.7 | 400 | 0.66 | 1890 | 5660 | |
| F 25 3_105.4 | 105.4 | 26.6 | 400 | 1.2 | 1470 | 4320 | 13.3 | 400 | 0.60 | 1890 | 5910 | |
| F 25 3_113.0 | 113.0 | 24.8 | 400 | 1.1 | 1470 | 4470 | 12.4 | 400 | 0.56 | 1890 | 6090 | |
| F 25 3_127.8 | 127.8 | 21.9 | 400 | 0.99 | 1480 | 4730 | 11.0 | 400 | 0.49 | 1900 | 6430 | |
| F 25 3_143.0 | 143.0 | 19.6 | 400 | 0.88 | 1480 | 4980 | 9.8 | 400 | 0.44 | 1910 | 6500 | |
| F 25 3_155.9 | 155.9 | 18.0 | 400 | 0.81 | 1480 | 5180 | 9.0 | 400 | 0.40 | 1910 | 6500 | |
| F 25 3_174.2 | 174.2 | 16.1 | 400 | 0.72 | 1490 | 5440 | 8.0 | 400 | 0.36 | 1910 | 6500 | |
| F 25 3_193.6 | 193.6 | 14.5 | 400 | 0.65 | 1490 | 5700 | 7.2 | 400 | 0.33 | 1910 | 6500 | |
| F 25 3_227.8 | 227.8 | 12.3 | 400 | 0.55 | 1490 | 6120 | 6.1 | 400 | 0.28 | 1920 | 6500 | |
| F 25 3_256.1 | 256.1 | 10.9 | 400 | 0.49 | 1490 | 6430 | 5.5 | 400 | 0.25 | 1920 | 6500 | |
| F 25 3_288.1 | 288.1 | 9.7 | 400 | 0.44 | 1490 | 6500 | 4.9 | 400 | 0.22 | 1920 | 6500 | |
| F 25 3_333.1 | 333.1 | 8.4 | 400 | 0.38 | 1500 | 6500 | 4.2 | 400 | 0.19 | 1930 | 6500 | |
| F 25 4_393.9 | 393.9 | 7.1 | 400 | 0.33 | 1270 | 6500 | 3.6 | 400 | 0.17 | 1300 | 6500 | |
| F 25 4_434.9 | 434.9 | 6.4 | 400 | 0.30 | 1290 | 6500 | 3.2 | 400 | 0.15 | 1300 | 6500 | |
| F 25 4_466.0 | 466.0 | 6.0 | 400 | 0.28 | 1300 | 6500 | 3.0 | 400 | 0.14 | 1300 | 6500 | |
| F 25 4_527.3 | 527.3 | 5.3 | 400 | 0.25 | 1300 | 6500 | 2.7 | 400 | 0.12 | 1300 | 6500 | |
| F 25 4_589.7 | 589.7 | 4.7 | 400 | 0.22 | 1300 | 6500 | 2.4 | 400 | 0.11 | 1300 | 6500 | |
| F 25 4_643.3 | 643.3 | 4.4 | 400 | 0.20 | 1300 | 6500 | 2.2 | 400 | 0.10 | 1300 | 6500 | |
| F 25 4_718.7 | 718.7 | 3.9 | 400 | 0.18 | 1300 | 6500 | 1.9 | 400 | 0.09 | 1300 | 6500 | |
| F 25 4_798.5 | 798.5 | 3.5 | 400 | 0.16 | 1300 | 6500 | 1.8 | 400 | 0.08 | 1300 | 6500 | |
| F 25 4_939.8 | 939.8 | 3.0 | 400 | 0.14 | 1300 | 6500 | 1.5 | 400 | 0.07 | 1300 | 6500 | |
| F 25 4_1057 | 1057 | 2.7 | 400 | 0.12 | 1300 | 6500 | 1.3 | 400 | 0.06 | 1300 | 6500 | |
| F 25 4_1189 | 1189 | 2.4 | 400 | 0.11 | 1300 | 6500 | 1.2 | 400 | 0.05 | 1300 | 6500 | |
| F 25 4_1374 | 1374 | 2.0 | 400 | 0.09 | 1300 | 6500 | 1.0 | 400 | 0.05 | 1300 | 6500 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

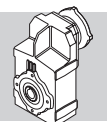


F 25



400 Nm

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 25 2_6.9 | 6.9 | 131 | 225 | 3.2 | — | 2690 | 73 | 255 | 2.0 | 370 | 3350 | 425 |
| F 25 2_8.4 | 8.4 | 107 | 250 | 3.0 | — | 2840 | 60 | 260 | 1.7 | 590 | 3630 | |
| F 25 2_9.4 | 9.4 | 96 | 260 | 2.8 | — | 2940 | 53 | 265 | 1.6 | 820 | 3780 | |
| F 25 2_10.6 | 10.6 | 85 | 355 | 3.3 | — | 2680 | 47 | 395 | 2.0 | 360 | 3420 | |
| F 25 2_13.0 | 13.0 | 69 | 370 | 2.8 | — | 2910 | 39 | 400 | 1.7 | 620 | 3750 | |
| F 25 2_14.5 | 14.5 | 62 | 380 | 2.6 | — | 3030 | 35 | 400 | 1.5 | 940 | 3950 | |
| F 25 2_16.6 | 16.6 | 54 | 395 | 2.4 | — | 3190 | 30 | 400 | 1.3 | 1070 | 4210 | |
| F 25 2_18.6 | 18.6 | 48 | 400 | 2.1 | 300 | 3350 | 26.9 | 400 | 1.2 | 1330 | 4440 | |
| F 25 2_21.8 | 21.8 | 41 | 400 | 1.8 | 420 | 3630 | 22.9 | 400 | 1.0 | 1450 | 4770 | |
| F 25 2_23.8 | 23.8 | 38 | 400 | 1.7 | 530 | 3780 | 21.0 | 400 | 0.93 | 1560 | 4950 | |
| F 25 2_27.2 | 27.2 | 33 | 400 | 1.5 | 610 | 4030 | 18.4 | 400 | 0.81 | 1640 | 5260 | |
| F 25 2_30.0 | 30.0 | 30 | 400 | 1.3 | 760 | 4220 | 16.6 | 400 | 0.73 | 1790 | 5490 | |
| F 25 2_32.2 | 32.2 | 28.0 | 400 | 1.2 | 760 | 4360 | 15.5 | 400 | 0.69 | 1790 | 5660 | |
| F 25 2_36.4 | 36.4 | 24.7 | 400 | 1.1 | 970 | 4610 | 13.7 | 400 | 0.61 | 2000 | 5970 | |
| F 25 2_40.7 | 40.7 | 22.1 | 375 | 0.91 | 1330 | 4950 | 12.3 | 375 | 0.51 | 2000 | 6360 | |
| F 25 2_44.4 | 44.4 | 20.3 | 385 | 0.86 | 1230 | 5100 | 11.3 | 385 | 0.48 | 2000 | 6500 | |
| F 25 3_45.6 | 45.6 | 19.8 | 400 | 0.89 | 2160 | 4960 | 11.0 | 400 | 0.49 | 2200 | 6420 | |
| F 25 3_50.8 | 50.8 | 17.7 | 400 | 0.80 | 2180 | 5210 | 9.8 | 400 | 0.44 | 2200 | 6500 | |
| F 25 3_58.3 | 58.3 | 15.4 | 400 | 0.69 | 2190 | 5540 | 8.6 | 400 | 0.39 | 2200 | 6500 | |
| F 25 3_65.3 | 65.3 | 13.8 | 400 | 0.62 | 2200 | 5820 | 7.7 | 400 | 0.34 | 2200 | 6500 | |
| F 25 3_76.6 | 76.6 | 11.8 | 400 | 0.53 | 2200 | 6240 | 6.5 | 400 | 0.29 | 2200 | 6500 | |
| F 25 3_83.4 | 83.4 | 10.8 | 400 | 0.49 | 2200 | 6470 | 6.0 | 400 | 0.27 | 2200 | 6500 | |
| F 25 3_95.5 | 95.5 | 9.4 | 400 | 0.42 | 2200 | 6500 | 5.2 | 400 | 0.24 | 2200 | 6500 | |
| F 25 3_105.4 | 105.4 | 8.5 | 400 | 0.38 | 2200 | 6500 | 4.7 | 400 | 0.21 | 2200 | 6500 | |
| F 25 3_113.0 | 113.0 | 8.0 | 400 | 0.36 | 2200 | 6500 | 4.4 | 400 | 0.20 | 2200 | 6500 | |
| F 25 3_127.8 | 127.8 | 7.0 | 400 | 0.32 | 2200 | 6500 | 3.9 | 400 | 0.18 | 2200 | 6500 | |
| F 25 3_143.0 | 143.0 | 6.3 | 400 | 0.28 | 2200 | 6500 | 3.5 | 400 | 0.16 | 2200 | 6500 | |
| F 25 3_155.9 | 155.9 | 5.8 | 400 | 0.26 | 2200 | 6500 | 3.2 | 400 | 0.14 | 2200 | 6500 | |
| F 25 3_174.2 | 174.2 | 5.2 | 400 | 0.23 | 2200 | 6500 | 2.9 | 400 | 0.13 | 2200 | 6500 | |
| F 25 3_193.6 | 193.6 | 4.6 | 400 | 0.21 | 2200 | 6500 | 2.6 | 400 | 0.12 | 2200 | 6500 | |
| F 25 3_227.8 | 227.8 | 4.0 | 400 | 0.18 | 2200 | 6500 | 2.2 | 400 | 0.10 | 2200 | 6500 | |
| F 25 3_256.1 | 256.1 | 3.5 | 400 | 0.16 | 2200 | 6500 | 2.0 | 400 | 0.09 | 2200 | 6500 | |
| F 25 3_288.1 | 288.1 | 3.1 | 400 | 0.14 | 2200 | 6500 | 1.7 | 400 | 0.08 | 2200 | 6500 | |
| F 25 3_333.1 | 333.1 | 2.7 | 400 | 0.12 | 2200 | 6500 | 1.5 | 400 | 0.07 | 2200 | 6500 | |
| F 25 4_393.9 | 393.9 | 2.3 | 400 | 0.11 | 1300 | 6500 | 1.3 | 400 | 0.06 | 1300 | 6500 | |
| F 25 4_434.9 | 434.9 | 2.1 | 400 | 0.10 | 1300 | 6500 | 1.1 | 400 | 0.05 | 1300 | 6500 | |
| F 25 4_466.0 | 466.0 | 1.9 | 400 | 0.09 | 1300 | 6500 | 1.1 | 400 | 0.05 | 1300 | 6500 | |
| F 25 4_527.3 | 527.3 | 1.7 | 400 | 0.08 | 1300 | 6500 | 0.95 | 400 | 0.04 | 1300 | 6500 | |
| F 25 4_589.7 | 589.7 | 1.5 | 400 | 0.07 | 1300 | 6500 | 0.85 | 400 | 0.04 | 1300 | 6500 | |
| F 25 4_643.3 | 643.3 | 1.4 | 400 | 0.07 | 1300 | 6500 | 0.78 | 400 | 0.04 | 1300 | 6500 | |
| F 25 4_718.7 | 718.7 | 1.3 | 400 | 0.06 | 1300 | 6500 | 0.70 | 400 | 0.03 | 1300 | 6500 | |
| F 25 4_798.5 | 798.5 | 1.1 | 400 | 0.05 | 1300 | 6500 | 0.63 | 400 | 0.03 | 1300 | 6500 | |
| F 25 4_939.8 | 939.8 | 0.96 | 400 | 0.04 | 1300 | 6500 | 0.53 | 400 | 0.02 | 1300 | 6500 | |
| F 25 4_1057 | 1057 | 0.85 | 400 | 0.04 | 1300 | 6500 | 0.47 | 400 | 0.02 | 1300 | 6500 | |
| F 25 4_1189 | 1189 | 0.76 | 400 | 0.04 | 1300 | 6500 | 0.42 | 400 | 0.02 | 1300 | 6500 | |
| F 25 4_1374 | 1374 | 0.65 | 400 | 0.03 | 1300 | 6500 | 0.36 | 400 | 0.02 | 1300 | 6500 | |

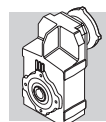
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



F 31 600 Nm



|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 31 2_6.9 | 6.9 | 403 | 295 | 13.1 | — | 2710 | 201 | 360 | 8.0 | — | 3460 | 429 |
| F 31 2_8.2 | 8.2 | 340 | 310 | 11.6 | — | 2880 | 170 | 375 | 7.0 | — | 3690 | |
| F 31 2_9.0 | 9.0 | 311 | 310 | 10.6 | — | 3000 | 155 | 385 | 6.6 | 390 | 3810 | |
| F 31 2_10.7 | 10.7 | 261 | 450 | 12.9 | — | 2790 | 130 | 525 | 7.5 | 500 | 3670 | |
| F 31 2_12.7 | 12.7 | 220 | 475 | 11.5 | — | 2950 | 110 | 555 | 6.7 | 490 | 3880 | |
| F 31 2_13.9 | 13.9 | 201 | 475 | 10.5 | 290 | 3100 | 100 | 570 | 6.3 | 650 | 4010 | |
| F 31 2_16.8 | 16.8 | 167 | 475 | 8.7 | 510 | 3410 | 83 | 595 | 5.5 | 680 | 4310 | |
| F 31 2_18.5 | 18.5 | 151 | 475 | 7.9 | 730 | 3580 | 76 | 600 | 5.0 | 910 | 4510 | |
| F 31 2_21.1 | 21.1 | 133 | 475 | 6.9 | 830 | 3830 | 66 | 600 | 4.4 | 1030 | 4820 | |
| F 31 2_23.4 | 23.4 | 120 | 475 | 6.3 | 1020 | 4020 | 60 | 600 | 4.0 | 1270 | 5060 | |
| F 31 2_27.3 | 27.3 | 103 | 475 | 5.4 | 1100 | 4330 | 51 | 600 | 3.4 | 1380 | 5450 | |
| F 31 2_30.1 | 30.1 | 93 | 475 | 4.9 | 1270 | 4540 | 46 | 600 | 3.1 | 1590 | 5710 | |
| F 31 2_34.4 | 34.4 | 81 | 475 | 4.3 | 1330 | 4820 | 41 | 600 | 2.7 | 1660 | 6070 | |
| F 31 2_37.7 | 37.7 | 74 | 475 | 3.9 | 1430 | 5030 | 37 | 600 | 2.5 | 1800 | 6330 | |
| F 31 2_40.4 | 40.4 | 69 | 475 | 3.6 | 1440 | 5190 | 35 | 600 | 2.3 | 1800 | 6500 | |
| F 31 2_44.6 | 44.6 | 63 | 475 | 3.3 | 1540 | 5430 | 31 | 600 | 2.1 | 1930 | 6500 | |
| F 31 3_47.5 | 47.5 | 59 | 475 | 3.1 | 2110 | 5490 | 29.4 | 580 | 1.9 | 2200 | 6500 | |
| F 31 3_52.1 | 52.1 | 54 | 485 | 2.9 | 2120 | 5680 | 26.9 | 600 | 1.8 | 2200 | 6500 | |
| F 31 3_62.8 | 62.8 | 45 | 515 | 2.6 | 2120 | 6040 | 22.3 | 600 | 1.5 | 2200 | 6500 | |
| F 31 3_69.1 | 69.1 | 41 | 530 | 2.4 | 2130 | 6250 | 20.3 | 600 | 1.4 | 2200 | 6500 | |
| F 31 3_78.9 | 78.9 | 36 | 550 | 2.2 | 2120 | 6500 | 17.8 | 600 | 1.2 | 2200 | 6500 | |
| F 31 3_87.4 | 87.4 | 32 | 570 | 2.1 | 2130 | 6500 | 16.0 | 600 | 1.1 | 2200 | 6500 | |
| F 31 3_101.9 | 101.9 | 27.5 | 595 | 1.8 | 2130 | 6500 | 13.7 | 600 | 0.93 | 2200 | 6500 | |
| F 31 3_112.5 | 112.5 | 24.9 | 600 | 1.7 | 2130 | 6500 | 12.4 | 600 | 0.84 | 2200 | 6500 | |
| F 31 3_128.4 | 128.4 | 21.8 | 600 | 1.5 | 2140 | 6500 | 10.9 | 600 | 0.74 | 2200 | 6500 | |
| F 31 3_140.7 | 140.7 | 19.9 | 600 | 1.3 | 2140 | 6500 | 9.9 | 600 | 0.67 | 2200 | 6500 | |
| F 31 3_150.8 | 150.8 | 18.6 | 600 | 1.3 | 2140 | 6500 | 9.3 | 600 | 0.63 | 2200 | 6500 | |
| F 31 3_166.8 | 166.8 | 16.8 | 600 | 1.1 | 2150 | 6500 | 8.4 | 600 | 0.57 | 2200 | 6500 | |
| F 31 3_185.4 | 185.4 | 15.1 | 600 | 1.0 | 2160 | 6500 | 7.5 | 600 | 0.51 | 2200 | 6500 | |
| F 31 3_202.3 | 202.3 | 13.8 | 600 | 0.94 | 2160 | 6500 | 6.9 | 600 | 0.47 | 2200 | 6500 | |
| F 31 3_228.2 | 228.2 | 12.3 | 600 | 0.83 | 2160 | 6500 | 6.1 | 600 | 0.41 | 2200 | 6500 | |
| F 31 3_253.6 | 253.6 | 11.0 | 600 | 0.75 | 2160 | 6500 | 5.5 | 600 | 0.37 | 2200 | 6500 | |
| F 31 3_293.8 | 293.8 | 9.5 | 600 | 0.64 | 2170 | 6500 | 4.8 | 600 | 0.32 | 2200 | 6500 | |
| F 31 3_332.8 | 332.8 | 8.4 | 600 | 0.57 | 2170 | 6500 | 4.2 | 600 | 0.28 | 2200 | 6500 | |
| F 31 3_374.4 | 374.4 | 7.5 | 600 | 0.51 | 2170 | 6500 | 3.7 | 600 | 0.25 | 2200 | 6500 | |
| F 31 4_418.9 | 418.9 | 6.7 | 600 | 0.47 | 1230 | 6500 | 3.3 | 600 | 0.23 | 1300 | 6500 | |
| F 31 4_462.6 | 462.6 | 6.1 | 600 | 0.42 | 1250 | 6500 | 3.0 | 600 | 0.21 | 1300 | 6500 | |
| F 31 4_527.8 | 527.8 | 5.3 | 600 | 0.37 | 1270 | 6500 | 2.7 | 600 | 0.19 | 1300 | 6500 | |
| F 31 4_578.6 | 578.6 | 4.8 | 600 | 0.34 | 1290 | 6500 | 2.4 | 600 | 0.17 | 1300 | 6500 | |
| F 31 4_619.9 | 619.9 | 4.5 | 600 | 0.32 | 1300 | 6500 | 2.3 | 600 | 0.16 | 1300 | 6500 | |
| F 31 4_685.6 | 685.6 | 4.1 | 600 | 0.29 | 1300 | 6500 | 2.0 | 600 | 0.14 | 1300 | 6500 | |
| F 31 4_762.3 | 762.3 | 3.7 | 600 | 0.26 | 1300 | 6500 | 1.8 | 600 | 0.13 | 1300 | 6500 | |
| F 31 4_831.6 | 831.6 | 3.4 | 600 | 0.24 | 1300 | 6500 | 1.7 | 600 | 0.12 | 1300 | 6500 | |
| F 31 4_938.2 | 938.2 | 3.0 | 600 | 0.21 | 1300 | 6500 | 1.5 | 600 | 0.10 | 1300 | 6500 | |
| F 31 4_1042 | 1042 | 2.7 | 600 | 0.19 | 1300 | 6500 | 1.3 | 600 | 0.09 | 1300 | 6500 | |
| F 31 4_1208 | 1208 | 2.3 | 600 | 0.16 | 1300 | 6500 | 1.2 | 600 | 0.08 | 1300 | 6500 | |
| F 31 4_1368 | 1368 | 2.0 | 600 | 0.14 | 1300 | 6500 | 1.0 | 600 | 0.07 | 1300 | 6500 | |
| F 31 4_1539 | 1539 | 1.8 | 600 | 0.13 | 1300 | 6500 | 0.91 | 600 | 0.06 | 1300 | 6500 | |

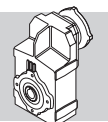
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



F 31



600 Nm

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 31 2_6.9 | 6.9 | 130 | 390 | 5.6 | 640 | 4120 | 72 | 390 | 3.1 | 2200 | 5350 | 429 |
| F 31 2_8.2 | 8.2 | 109 | 390 | 4.7 | 990 | 4450 | 61 | 390 | 2.6 | 2200 | 5760 | |
| F 31 2_9.0 | 9.0 | 100 | 390 | 4.3 | 1320 | 4640 | 55 | 390 | 2.4 | 2200 | 5980 | |
| F 31 2_10.7 | 10.7 | 84 | 600 | 5.5 | 670 | 4280 | 47 | 600 | 3.1 | 2200 | 5710 | |
| F 31 2_12.7 | 12.7 | 71 | 600 | 4.7 | 1020 | 4670 | 39 | 600 | 2.6 | 2200 | 6170 | |
| F 31 2_13.9 | 13.9 | 65 | 600 | 4.3 | 1350 | 4880 | 36 | 600 | 2.4 | 2200 | 6440 | |
| F 31 2_16.8 | 16.8 | 54 | 600 | 3.5 | 1640 | 5340 | 29.8 | 600 | 2.0 | 2200 | 6500 | |
| F 31 2_18.5 | 18.5 | 49 | 600 | 3.2 | 1915 | 5580 | 27.0 | 600 | 1.8 | 2200 | 6500 | |
| F 31 2_21.1 | 21.1 | 43 | 600 | 2.8 | 2040 | 5950 | 23.7 | 600 | 1.6 | 2200 | 6500 | |
| F 31 2_23.4 | 23.4 | 38 | 600 | 2.5 | 2200 | 6230 | 21.4 | 600 | 1.4 | 2200 | 6500 | |
| F 31 2_27.3 | 27.3 | 33 | 600 | 2.2 | 2200 | 6500 | 18.3 | 600 | 1.2 | 2200 | 6500 | |
| F 31 2_30.1 | 30.1 | 29.9 | 600 | 2.0 | 2200 | 6500 | 16.6 | 600 | 1.1 | 2200 | 6500 | |
| F 31 2_34.4 | 34.4 | 26.2 | 600 | 1.7 | 2200 | 6500 | 14.6 | 600 | 0.96 | 2200 | 6500 | |
| F 31 2_37.7 | 37.7 | 23.9 | 600 | 1.6 | 2200 | 6500 | 13.3 | 600 | 0.88 | 2200 | 6500 | |
| F 31 2_40.4 | 40.4 | 22.3 | 600 | 1.5 | 2200 | 6500 | 12.4 | 600 | 0.82 | 2200 | 6500 | |
| F 31 2_44.6 | 44.6 | 20.2 | 600 | 1.3 | 2200 | 6500 | 11.2 | 600 | 0.74 | 2200 | 6500 | |
| F 31 3_47.5 | 47.5 | 18.9 | 600 | 1.3 | 2200 | 6500 | 10.5 | 600 | 0.71 | 2200 | 6500 | |
| F 31 3_52.1 | 52.1 | 17.3 | 600 | 1.2 | 2200 | 6500 | 9.6 | 600 | 0.65 | 2200 | 6500 | |
| F 31 3_62.8 | 62.8 | 14.3 | 600 | 0.97 | 2200 | 6500 | 8.0 | 600 | 0.54 | 2200 | 6500 | |
| F 31 3_69.1 | 69.1 | 13.0 | 600 | 0.88 | 2200 | 6500 | 7.2 | 600 | 0.49 | 2200 | 6500 | |
| F 31 3_78.9 | 78.9 | 11.4 | 600 | 0.77 | 2200 | 6500 | 6.3 | 600 | 0.43 | 2200 | 6500 | |
| F 31 3_87.4 | 87.4 | 10.3 | 600 | 0.70 | 2200 | 6500 | 5.7 | 600 | 0.39 | 2200 | 6500 | |
| F 31 3_101.9 | 101.9 | 8.8 | 600 | 0.60 | 2200 | 6500 | 4.9 | 600 | 0.33 | 2200 | 6500 | |
| F 31 3_112.5 | 112.5 | 8.0 | 600 | 0.54 | 2200 | 6500 | 4.4 | 600 | 0.30 | 2200 | 6500 | |
| F 31 3_128.4 | 128.4 | 7.0 | 600 | 0.47 | 2200 | 6500 | 3.9 | 600 | 0.26 | 2200 | 6500 | |
| F 31 3_140.7 | 140.7 | 6.4 | 600 | 0.43 | 2200 | 6500 | 3.6 | 600 | 0.24 | 2200 | 6500 | |
| F 31 3_150.8 | 150.8 | 6.0 | 600 | 0.40 | 2200 | 6500 | 3.3 | 600 | 0.22 | 2200 | 6500 | |
| F 31 3_166.8 | 166.8 | 5.4 | 600 | 0.36 | 2200 | 6500 | 3.0 | 600 | 0.20 | 2200 | 6500 | |
| F 31 3_185.4 | 185.4 | 4.9 | 600 | 0.33 | 2200 | 6500 | 2.7 | 600 | 0.18 | 2200 | 6500 | |
| F 31 3_202.3 | 202.3 | 4.4 | 600 | 0.30 | 2200 | 6500 | 2.5 | 600 | 0.17 | 2200 | 6500 | |
| F 31 3_228.2 | 228.2 | 3.9 | 600 | 0.27 | 2200 | 6500 | 2.2 | 600 | 0.15 | 2200 | 6500 | |
| F 31 3_253.6 | 253.6 | 3.5 | 600 | 0.24 | 2200 | 6500 | 2.0 | 600 | 0.13 | 2200 | 6500 | |
| F 31 3_293.8 | 293.8 | 3.1 | 600 | 0.21 | 2200 | 6500 | 1.7 | 600 | 0.11 | 2200 | 6500 | |
| F 31 3_332.8 | 332.8 | 2.7 | 600 | 0.18 | 2200 | 6500 | 1.5 | 600 | 0.10 | 2200 | 6500 | |
| F 31 3_374.4 | 374.4 | 2.4 | 600 | 0.16 | 2200 | 6500 | 1.3 | 600 | 0.09 | 2200 | 6500 | |
| F 31 4_418.9 | 418.9 | 2.1 | 600 | 0.15 | 1300 | 6500 | 1.2 | 600 | 0.08 | 1300 | 6500 | |
| F 31 4_462.6 | 462.6 | 1.9 | 600 | 0.14 | 1300 | 6500 | 1.1 | 600 | 0.08 | 1300 | 6500 | |
| F 31 4_527.8 | 527.8 | 1.7 | 600 | 0.12 | 1300 | 6500 | 0.95 | 600 | 0.07 | 1300 | 6500 | |
| F 31 4_578.6 | 578.6 | 1.6 | 600 | 0.11 | 1300 | 6500 | 0.86 | 600 | 0.06 | 1300 | 6500 | |
| F 31 4_619.9 | 619.9 | 1.5 | 600 | 0.10 | 1300 | 6500 | 0.81 | 600 | 0.06 | 1300 | 6500 | |
| F 31 4_685.6 | 685.6 | 1.3 | 600 | 0.09 | 1300 | 6500 | 0.73 | 600 | 0.05 | 1300 | 6500 | |
| F 31 4_762.3 | 762.3 | 1.2 | 600 | 0.08 | 1300 | 6500 | 0.66 | 600 | 0.05 | 1300 | 6500 | |
| F 31 4_831.6 | 831.6 | 1.1 | 600 | 0.08 | 1300 | 6500 | 0.60 | 600 | 0.04 | 1300 | 6500 | |
| F 31 4_938.2 | 938.2 | 0.96 | 600 | 0.07 | 1300 | 6500 | 0.53 | 600 | 0.04 | 1300 | 6500 | |
| F 31 4_1042 | 1042 | 0.86 | 600 | 0.06 | 1300 | 6500 | 0.48 | 600 | 0.03 | 1300 | 6500 | |
| F 31 4_1208 | 1208 | 0.75 | 600 | 0.05 | 1300 | 6500 | 0.41 | 600 | 0.03 | 1300 | 6500 | |
| F 31 4_1368 | 1368 | 0.66 | 600 | 0.05 | 1300 | 6500 | 0.37 | 600 | 0.03 | 1300 | 6500 | |
| F 31 4_1539 | 1539 | 0.58 | 600 | 0.04 | 1300 | 6500 | 0.32 | 600 | 0.02 | 1300 | 6500 | |

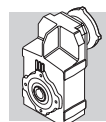


F 41

1100 Nm



|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 41 2_6.7 | 6.7 | 416 | 460 | 21 | — | 3410 | 208 | 580 | 13.3 | — | 4290 | 433 |
| F 41 2_9.1 | 9.1 | 306 | 515 | 17.4 | — | 3750 | 153 | 650 | 11.0 | — | 4730 | |
| F 41 2_10.8 | 10.8 | 260 | 715 | 21 | — | 3310 | 130 | 900 | 12.9 | — | 4170 | |
| F 41 2_14.6 | 14.6 | 191 | 805 | 17.0 | — | 3620 | 96 | 1015 | 10.7 | — | 4560 | |
| F 41 2_17.1 | 17.1 | 164 | 835 | 15.1 | — | 3860 | 82 | 1055 | 9.5 | — | 4850 | |
| F 41 2_18.9 | 18.9 | 148 | 860 | 14.0 | 410 | 4000 | 74 | 1085 | 8.9 | 500 | 5030 | |
| F 41 2_24.1 | 24.1 | 116 | 875 | 11.2 | 650 | 4540 | 58 | 1100 | 7.0 | 840 | 5730 | |
| F 41 2_30.1 | 30.1 | 93 | 875 | 9.0 | 980 | 5130 | 46 | 1100 | 5.6 | 1260 | 6470 | |
| F 41 2_38.2 | 38.2 | 73 | 875 | 7.1 | 1260 | 5810 | 37 | 1100 | 4.4 | 1600 | 7330 | |
| F 41 2_47.9 | 47.9 | 58 | 850 | 5.5 | 1680 | 6600 | 29.2 | 1070 | 3.4 | 2120 | 8320 | |
| F 41 3_51.5 | 51.5 | 54 | 880 | 5.4 | 3030 | 6750 | 27.2 | 1085 | 3.3 | 3500 | 8500 | |
| F 41 3_60.2 | 60.2 | 46 | 930 | 4.9 | 3030 | 7100 | 23.2 | 1100 | 2.9 | 3500 | 8500 | |
| F 41 3_66.5 | 66.5 | 42 | 980 | 4.6 | 3030 | 7280 | 21.1 | 1100 | 2.6 | 3500 | 8500 | |
| F 41 3_84.9 | 84.9 | 33 | 1065 | 4.0 | 3030 | 7890 | 16.5 | 1100 | 2.0 | 3500 | 8500 | |
| F 41 3_106.0 | 106.0 | 26.4 | 1100 | 3.3 | 3040 | 8500 | 13.2 | 1100 | 1.6 | 3500 | 8500 | |
| F 41 3_134.4 | 134.4 | 20.8 | 1100 | 2.6 | 3050 | 8500 | 10.4 | 1100 | 1.3 | 3500 | 8500 | |
| F 41 3_168.7 | 168.7 | 16.6 | 1100 | 2.1 | 3070 | 8500 | 8.3 | 1100 | 1.0 | 3500 | 8500 | |
| F 41 3_180.7 | 180.7 | 15.5 | 1100 | 1.9 | 3070 | 8500 | 7.7 | 1100 | 0.96 | 3500 | 8500 | |
| F 41 3_198.9 | 198.9 | 14.1 | 1100 | 1.7 | 3080 | 8500 | 7.0 | 1100 | 0.87 | 3500 | 8500 | |
| F 41 3_220.1 | 220.1 | 12.7 | 1100 | 1.6 | 3090 | 8500 | 6.4 | 1100 | 0.79 | 3500 | 8500 | |
| F 41 3_240.1 | 240.1 | 11.7 | 1100 | 1.4 | 3090 | 8500 | 5.8 | 1100 | 0.72 | 3500 | 8500 | |
| F 41 3_266.9 | 266.9 | 10.5 | 1100 | 1.3 | 3090 | 8500 | 5.2 | 1100 | 0.65 | 3500 | 8500 | |
| F 41 3_296.6 | 296.6 | 9.4 | 1100 | 1.2 | 3090 | 8500 | 4.7 | 1100 | 0.58 | 3500 | 8500 | |
| F 41 3_344.8 | 344.8 | 8.1 | 1100 | 1.0 | 3100 | 8500 | 4.1 | 1100 | 0.50 | 3500 | 8500 | |
| F 41 4_433.7 | 433.7 | 6.5 | 1100 | 0.83 | 1480 | 8500 | 3.2 | 1100 | 0.41 | 1910 | 8500 | |
| F 41 4_549.8 | 549.8 | 5.1 | 1100 | 0.65 | 1520 | 8500 | 2.5 | 1100 | 0.33 | 1940 | 8500 | |
| F 41 4_690.1 | 690.1 | 4.1 | 1100 | 0.52 | 1540 | 8500 | 2.0 | 1100 | 0.26 | 1970 | 8500 | |
| F 41 4_739.4 | 739.4 | 3.8 | 1100 | 0.48 | 1550 | 8500 | 1.9 | 1100 | 0.24 | 1980 | 8500 | |
| F 41 4_813.8 | 813.8 | 3.4 | 1100 | 0.44 | 1560 | 8500 | 1.7 | 1100 | 0.22 | 1990 | 8500 | |
| F 41 4_900.5 | 900.5 | 3.1 | 1100 | 0.40 | 1570 | 8500 | 1.6 | 1100 | 0.20 | 2000 | 8500 | |
| F 41 4_982.4 | 982.4 | 2.9 | 1100 | 0.36 | 1570 | 8500 | 1.4 | 1100 | 0.18 | 2000 | 8500 | |
| F 41 4_1092 | 1092 | 2.6 | 1100 | 0.33 | 1580 | 8500 | 1.3 | 1100 | 0.16 | 2010 | 8500 | |
| F 41 4_1213 | 1213 | 2.3 | 1100 | 0.30 | 1590 | 8500 | 1.2 | 1100 | 0.15 | 2020 | 8500 | |
| F 41 4_1411 | 1411 | 2.0 | 1100 | 0.25 | 1600 | 8500 | 1.0 | 1100 | 0.13 | 2020 | 8500 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

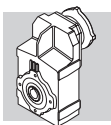


F 41

1100 Nm



|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| F 41 2_6.7 | 6.7 | 134 | 670 | 9.9 | — | 4980 | 74 | 700 | 5.7 | 1760 | 6450 | 433 |
| F 41 2_9.1 | 9.1 | 99 | 700 | 7.6 | 680 | 5660 | 55 | 700 | 4.2 | 2850 | 7410 | |
| F 41 2_10.8 | 10.8 | 84 | 1025 | 9.4 | 480 | 4900 | 46 | 1100 | 5.6 | 1950 | 6480 | |
| F 41 2_14.6 | 14.6 | 62 | 1100 | 7.5 | 860 | 5550 | 34 | 1100 | 4.1 | 3030 | 7590 | |
| F 41 2_17.1 | 17.1 | 53 | 1100 | 6.4 | 1230 | 6060 | 29.2 | 1100 | 3.5 | 3400 | 8210 | |
| F 41 2_18.9 | 18.9 | 48 | 1100 | 5.8 | 1760 | 6390 | 26.5 | 1100 | 3.2 | 3500 | 8500 | |
| F 41 2_24.1 | 24.1 | 37 | 1100 | 4.5 | 2210 | 7260 | 20.7 | 1100 | 2.5 | 3500 | 8500 | |
| F 41 2_30.1 | 30.1 | 29.9 | 1100 | 3.6 | 2630 | 8120 | 16.6 | 1100 | 2.0 | 3500 | 8500 | |
| F 41 2_38.2 | 38.2 | 23.6 | 1100 | 2.9 | 2970 | 8500 | 13.1 | 1100 | 1.6 | 3500 | 8500 | |
| F 41 2_47.9 | 47.9 | 18.8 | 1070 | 2.2 | 3490 | 8500 | 10.4 | 1070 | 1.2 | 3500 | 8500 | |
| F 41 3_51.5 | 51.5 | 17.5 | 1100 | 2.2 | 3500 | 8500 | 9.7 | 1100 | 1.2 | 3500 | 8500 | |
| F 41 3_60.2 | 60.2 | 14.9 | 1100 | 1.9 | 3500 | 8500 | 8.3 | 1100 | 1.0 | 3500 | 8500 | |
| F 41 3_66.5 | 66.5 | 13.5 | 1100 | 1.7 | 3500 | 8500 | 7.5 | 1100 | 0.93 | 3500 | 8500 | |
| F 41 3_84.9 | 84.9 | 10.6 | 1100 | 1.3 | 3500 | 8500 | 5.9 | 1100 | 0.73 | 3500 | 8500 | |
| F 41 3_106.0 | 106.0 | 8.5 | 1100 | 1.1 | 3500 | 8500 | 4.7 | 1100 | 0.58 | 3500 | 8500 | |
| F 41 3_134.4 | 134.4 | 6.7 | 1100 | 0.83 | 3500 | 8500 | 3.7 | 1100 | 0.46 | 3500 | 8500 | |
| F 41 3_168.7 | 168.7 | 5.3 | 1100 | 0.66 | 3500 | 8500 | 3.0 | 1100 | 0.37 | 3500 | 8500 | |
| F 41 3_180.7 | 180.7 | 5.0 | 1100 | 0.62 | 3500 | 8500 | 2.8 | 1100 | 0.34 | 3500 | 8500 | |
| F 41 3_198.9 | 198.9 | 4.5 | 1100 | 0.56 | 3500 | 8500 | 2.5 | 1100 | 0.31 | 3500 | 8500 | |
| F 41 3_220.1 | 220.1 | 4.1 | 1100 | 0.51 | 3500 | 8500 | 2.3 | 1100 | 0.28 | 3500 | 8500 | |
| F 41 3_240.1 | 240.1 | 3.7 | 1100 | 0.46 | 3500 | 8500 | 2.1 | 1100 | 0.26 | 3500 | 8500 | |
| F 41 3_266.9 | 266.9 | 3.4 | 1100 | 0.42 | 3500 | 8500 | 1.9 | 1100 | 0.23 | 3500 | 8500 | |
| F 41 3_296.6 | 296.6 | 3.0 | 1100 | 0.38 | 3500 | 8500 | 1.7 | 1100 | 0.21 | 3500 | 8500 | |
| F 41 3_344.8 | 344.8 | 2.6 | 1100 | 0.32 | 3500 | 8500 | 1.5 | 1100 | 0.18 | 3500 | 8500 | |
| F 41 4_433.7 | 433.7 | 2.1 | 1100 | 0.27 | 2200 | 8500 | 1.2 | 1100 | 0.15 | 2200 | 8500 | |
| F 41 4_549.8 | 549.8 | 1.6 | 1100 | 0.21 | 2200 | 8500 | 0.91 | 1100 | 0.12 | 2200 | 8500 | |
| F 41 4_690.1 | 690.1 | 1.3 | 1100 | 0.17 | 2200 | 8500 | 0.72 | 1100 | 0.09 | 2200 | 8500 | |
| F 41 4_739.4 | 739.4 | 1.2 | 1100 | 0.16 | 2200 | 8500 | 0.68 | 1100 | 0.09 | 2200 | 8500 | |
| F 41 4_813.8 | 813.8 | 1.1 | 1100 | 0.14 | 2200 | 8500 | 0.61 | 1100 | 0.08 | 2200 | 8500 | |
| F 41 4_900.5 | 900.5 | 1.0 | 1100 | 0.13 | 2200 | 8500 | 0.56 | 1100 | 0.07 | 2200 | 8500 | |
| F 41 4_982.4 | 982.4 | 0.92 | 1100 | 0.12 | 2200 | 8500 | 0.51 | 1100 | 0.07 | 2200 | 8500 | |
| F 41 4_1092 | 1092 | 0.82 | 1100 | 0.11 | 2200 | 8500 | 0.46 | 1100 | 0.06 | 2200 | 8500 | |
| F 41 4_1213 | 1213 | 0.74 | 1100 | 0.09 | 2200 | 8500 | 0.41 | 1100 | 0.05 | 2200 | 8500 | |
| F 41 4_1411 | 1411 | 0.64 | 1100 | 0.08 | 2200 | 8500 | 0.35 | 1100 | 0.05 | 2200 | 8500 | |

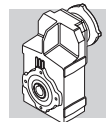
(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)





F 51

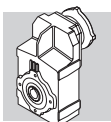
1800 Nm

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 51 2_7.2 | 7.2 | 389 | 775 | 33 | 990 | 4170 | 195 | 975 | 21 | 1440 | 5260 | 437 |
| F 51 2_9.1 | 9.1 | 309 | 875 | 30 | 890 | 4400 | 155 | 1100 | 18.8 | 1320 | 5550 | |
| F 51 2_11.1 | 11.1 | 252 | 1055 | 29 | 1460 | 4530 | 126 | 1330 | 18.5 | 2010 | 5700 | |
| F 51 2_14.0 | 14.0 | 200 | 1125 | 25 | 1580 | 4920 | 100 | 1420 | 15.7 | 2150 | 6200 | |
| F 51 2_18.8 | 18.8 | 149 | 1225 | 20 | 1660 | 5480 | 74 | 1545 | 12.7 | 2240 | 6900 | |
| F 51 2_23.8 | 23.8 | 118 | 1310 | 17.0 | 1710 | 5960 | 59 | 1650 | 10.7 | 2290 | 7520 | |
| F 51 2_30.0 | 30.0 | 93 | 1350 | 13.9 | 1760 | 6610 | 47 | 1700 | 8.7 | 2330 | 8340 | |
| F 51 2_37.1 | 37.1 | 75 | 1350 | 11.2 | 1910 | 7350 | 38 | 1700 | 7.1 | 2410 | 9260 | |
| F 51 3_48.9 | 48.9 | 57 | 1505 | 9.7 | 2600 | 7800 | 28.6 | 1800 | 5.8 | 3310 | 10100 | |
| F 51 3_65.8 | 65.8 | 43 | 1650 | 7.9 | 2610 | 8640 | 21.3 | 1800 | 4.3 | 3380 | 11600 | |
| F 51 3_83.2 | 83.2 | 34 | 1770 | 6.7 | 2630 | 9380 | 16.8 | 1800 | 3.4 | 3440 | 12000 | |
| F 51 3_105.1 | 105.1 | 26.6 | 1800 | 5.4 | 2650 | 10400 | 13.3 | 1800 | 2.7 | 3460 | 12000 | |
| F 51 3_129.9 | 129.9 | 21.6 | 1800 | 4.4 | 2670 | 11600 | 10.8 | 1800 | 2.2 | 3490 | 12000 | |
| F 51 3_165.6 | 165.6 | 16.9 | 1800 | 3.4 | 2700 | 12000 | 8.5 | 1800 | 1.7 | 3500 | 12000 | |
| F 51 3_202.4 | 202.4 | 13.8 | 1800 | 2.8 | 2710 | 12000 | 6.9 | 1800 | 1.4 | 3500 | 12000 | |
| F 51 3_216.9 | 216.9 | 12.9 | 1800 | 2.6 | 2710 | 12000 | 6.5 | 1800 | 1.3 | 3500 | 12000 | |
| F 51 3_239.8 | 239.8 | 11.7 | 1800 | 2.4 | 2730 | 12000 | 5.8 | 1800 | 1.2 | 3500 | 12000 | |
| F 51 3_262.1 | 262.1 | 10.7 | 1800 | 2.2 | 2730 | 12000 | 5.3 | 1800 | 1.1 | 3500 | 12000 | |
| F 51 3_285.9 | 285.9 | 9.8 | 1800 | 2.0 | 2730 | 12000 | 4.9 | 1800 | 0.99 | 3500 | 12000 | |
| F 51 3_317.3 | 317.3 | 8.8 | 1800 | 1.8 | 2740 | 12000 | 4.4 | 1800 | 0.89 | 3500 | 12000 | |
| F 51 3_352.5 | 352.5 | 7.9 | 1800 | 1.6 | 2740 | 12000 | 4.0 | 1800 | 0.80 | 3500 | 12000 | |
| F 51 4_429.1 | 429.1 | 6.5 | 1800 | 1.4 | 1930 | 12000 | 3.3 | 1800 | 0.68 | 2200 | 12000 | |
| F 51 4_530.5 | 530.5 | 5.3 | 1800 | 1.1 | 1970 | 12000 | 2.6 | 1800 | 0.55 | 2200 | 12000 | |
| F 51 4_676.3 | 676.3 | 4.1 | 1800 | 0.87 | 2020 | 12000 | 2.1 | 1800 | 0.43 | 2200 | 12000 | |
| F 51 4_826.4 | 826.4 | 3.4 | 1800 | 0.71 | 2040 | 12000 | 1.7 | 1800 | 0.35 | 2200 | 12000 | |
| F 51 4_885.5 | 885.5 | 3.2 | 1800 | 0.66 | 2050 | 12000 | 1.6 | 1800 | 0.33 | 2200 | 12000 | |
| F 51 4_979.4 | 979.4 | 2.9 | 1800 | 0.60 | 2060 | 12000 | 1.4 | 1800 | 0.30 | 2200 | 12000 | |
| F 51 4_1070 | 1070 | 2.6 | 1800 | 0.55 | 2070 | 12000 | 1.3 | 1800 | 0.27 | 2200 | 12000 | |
| F 51 4_1168 | 1168 | 2.4 | 1800 | 0.50 | 2080 | 12000 | 1.2 | 1800 | 0.25 | 2200 | 12000 | |
| F 51 4_1296 | 1296 | 2.2 | 1800 | 0.45 | 2090 | 12000 | 1.1 | 1800 | 0.23 | 2200 | 12000 | |
| F 51 4_1439 | 1439 | 1.9 | 1800 | 0.41 | 2100 | 12000 | 1.0 | 1800 | 0.20 | 2200 | 12000 | |





F 51 1800 Nm

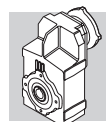
|  | i | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | |  |
|---|-------|------------------------------|----------------|----------------|---------------|---------------|------------------------------|----------------|----------------|---------------|---------------|---|
| | | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | n_2 min ⁻¹ | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | |
| F 51 2_7.2 | 7.2 | 125 | 1100 | 15.2 | 1940 | 6170 | 70 | 1100 | 8.4 | 3190 | 8140 | 437 |
| F 51 2_9.1 | 9.1 | 99 | 1100 | 12.1 | 2450 | 6900 | 55 | 1100 | 6.7 | 3440 | 9030 | |
| F 51 2_11.1 | 11.1 | 81 | 1520 | 13.6 | 2450 | 6660 | 45 | 1700 | 8.4 | 3190 | 8480 | |
| F 51 2_14.0 | 14.0 | 64 | 1620 | 11.5 | 2550 | 7250 | 36 | 1700 | 6.7 | 3440 | 9500 | |
| F 51 2_18.8 | 18.8 | 48 | 1700 | 9.0 | 2690 | 8230 | 26.6 | 1700 | 5.0 | 3500 | 10900 | |
| F 51 2_23.8 | 23.8 | 38 | 1700 | 7.1 | 2870 | 9250 | 21.0 | 1700 | 3.9 | 3500 | 12000 | |
| F 51 2_30.0 | 30.0 | 30 | 1700 | 5.6 | 2960 | 10300 | 16.6 | 1700 | 3.1 | 3500 | 12000 | |
| F 51 2_37.1 | 37.1 | 24.2 | 1700 | 4.5 | 3040 | 11400 | 13.5 | 1700 | 2.5 | 3500 | 12000 | |
| F 51 3_48.9 | 48.9 | 18.4 | 1800 | 3.7 | 3500 | 12000 | 10.2 | 1800 | 2.1 | 3500 | 12000 | |
| F 51 3_65.8 | 65.8 | 13.7 | 1800 | 2.8 | 3500 | 12000 | 7.6 | 1800 | 1.5 | 3500 | 12000 | |
| F 51 3_83.2 | 83.2 | 10.8 | 1800 | 2.2 | 3500 | 12000 | 6.0 | 1800 | 1.2 | 3500 | 12000 | |
| F 51 3_105.1 | 105.1 | 8.6 | 1800 | 1.7 | 3500 | 12000 | 4.8 | 1800 | 0.96 | 3500 | 12000 | |
| F 51 3_129.9 | 129.9 | 6.9 | 1800 | 1.4 | 3500 | 12000 | 3.8 | 1800 | 0.78 | 3500 | 12000 | |
| F 51 3_165.6 | 165.6 | 5.4 | 1800 | 1.1 | 3500 | 12000 | 3.0 | 1800 | 0.61 | 3500 | 12000 | |
| F 51 3_202.4 | 202.4 | 4.4 | 1800 | 0.90 | 3500 | 12000 | 2.5 | 1800 | 0.50 | 3500 | 12000 | |
| F 51 3_216.9 | 216.9 | 4.2 | 1800 | 0.84 | 3500 | 12000 | 2.3 | 1800 | 0.47 | 3500 | 12000 | |
| F 51 3_239.8 | 239.8 | 3.8 | 1800 | 0.76 | 3500 | 12000 | 2.1 | 1800 | 0.42 | 3500 | 12000 | |
| F 51 3_262.1 | 262.1 | 3.4 | 1800 | 0.70 | 3500 | 12000 | 1.9 | 1800 | 0.39 | 3500 | 12000 | |
| F 51 3_285.9 | 285.9 | 3.1 | 1800 | 0.64 | 3500 | 12000 | 1.7 | 1800 | 0.35 | 3500 | 12000 | |
| F 51 3_317.3 | 317.3 | 2.8 | 1800 | 0.57 | 3500 | 12000 | 1.6 | 1800 | 0.32 | 3500 | 12000 | |
| F 51 3_352.5 | 352.5 | 2.6 | 1800 | 0.52 | 3500 | 12000 | 1.4 | 1800 | 0.29 | 3500 | 12000 | |
| F 51 4_429.1 | 429.1 | 2.1 | 1800 | 0.44 | 2200 | 12000 | 1.2 | 1800 | 0.24 | 2200 | 12000 | |
| F 51 4_530.5 | 530.5 | 1.7 | 1800 | 0.36 | 2200 | 12000 | 0.94 | 1800 | 0.20 | 2200 | 12000 | |
| F 51 4_676.3 | 676.3 | 1.3 | 1800 | 0.28 | 2200 | 12000 | 0.74 | 1800 | 0.15 | 2200 | 12000 | |
| F 51 4_826.4 | 826.4 | 1.1 | 1800 | 0.23 | 2200 | 12000 | 0.61 | 1800 | 0.13 | 2200 | 12000 | |
| F 51 4_885.5 | 885.5 | 1.0 | 1800 | 0.21 | 2200 | 12000 | 0.56 | 1800 | 0.12 | 2200 | 12000 | |
| F 51 4_979.4 | 979.4 | 0.92 | 1800 | 0.19 | 2200 | 12000 | 0.51 | 1800 | 0.11 | 2200 | 12000 | |
| F 51 4_1070 | 1070 | 0.84 | 1800 | 0.18 | 2200 | 12000 | 0.47 | 1800 | 0.10 | 2200 | 12000 | |
| F 51 4_1168 | 1168 | 0.77 | 1800 | 0.16 | 2200 | 12000 | 0.43 | 1800 | 0.09 | 2200 | 12000 | |
| F 51 4_1296 | 1296 | 0.69 | 1800 | 0.15 | 2200 | 12000 | 0.39 | 1800 | 0.08 | 2200 | 12000 | |
| F 51 4_1439 | 1439 | 0.63 | 1800 | 0.13 | 2200 | 12000 | 0.35 | 1800 | 0.07 | 2200 | 12000 | |



F 60 2900 Nm



|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 60 3_9.0 | 9.0 | 311 | 920 | 32 | — | 13300 | 156 | 1160 | 20 | — | 16500 | 441 |
| F 60 3_9.7 | 9.7 | 289 | 1000 | 33 | — | 13600 | 144 | 1250 | 20 | — | 16700 | |
| F 60 3_11.8 | 11.8 | 237 | 1030 | 28 | — | 14600 | 119 | 1300 | 17.4 | — | 17800 | |
| F 60 3_12.7 | 12.7 | 220 | 1110 | 28 | — | 14700 | 110 | 1400 | 17.4 | — | 18000 | |
| F 60 3_14.5 | 14.5 | 193 | 1110 | 24 | — | 15500 | 97 | 1400 | 15.3 | — | 19000 | |
| F 60 3_15.7 | 15.7 | 178 | 1200 | 24 | — | 15600 | 89 | 1500 | 15.1 | — | 19200 | |
| F 60 3_19.1 | 19.1 | 147 | 1200 | 19.9 | — | 16800 | 73 | 1500 | 12.4 | — | 20000 | |
| F 60 3_20.7 | 20.7 | 135 | 1300 | 19.9 | — | 17000 | 68 | 1640 | 12.5 | — | 20000 | |
| F 60 3_23.5 | 23.5 | 119 | 1260 | 17.0 | — | 17900 | 60 | 1590 | 10.7 | — | 20000 | |
| F 60 3_25.4 | 25.4 | 110 | 1370 | 17.1 | — | 18100 | 55 | 1720 | 10.7 | — | 20000 | |
| F 60 3_29.6 | 29.6 | 95 | 2750 | 29 | 820 | 15900 | 47 | 2900 | 15.5 | 2630 | 20000 | |
| F 60 3_32.1 | 32.1 | 87 | 2800 | 28 | 1290 | 16200 | 44 | 2900 | 14.3 | 3260 | 20000 | |
| F 60 3_38.8 | 38.8 | 72 | 2900 | 24 | 1260 | 17500 | 36 | 2900 | 11.8 | 3480 | 20000 | |
| F 60 3_42.1 | 42.1 | 67 | 2900 | 22 | 1820 | 17900 | 33 | 2900 | 10.9 | 3720 | 20000 | |
| F 60 3_47.8 | 47.8 | 59 | 2900 | 19.2 | 1770 | 19100 | 29.3 | 2900 | 9.6 | 3730 | 20000 | |
| F 60 3_51.8 | 51.8 | 54 | 2900 | 17.7 | 2290 | 19500 | 27.0 | 2900 | 8.9 | 3830 | 20000 | |
| F 60 3_63.0 | 63.0 | 44 | 2900 | 14.6 | 2310 | 20000 | 22.2 | 2900 | 7.3 | 3850 | 20000 | |
| F 60 3_68.3 | 68.3 | 41 | 2900 | 13.4 | 2790 | 20000 | 20.5 | 2900 | 6.7 | 3940 | 20000 | |
| F 60 3_77.6 | 77.6 | 36 | 2900 | 11.8 | 2620 | 20000 | 18.0 | 2900 | 5.9 | 3920 | 20000 | |
| F 60 3_84.0 | 84.0 | 33 | 2900 | 10.9 | 2960 | 20000 | 16.7 | 2900 | 5.5 | 4010 | 20000 | |
| F 60 3_98.2 | 98.2 | 28.5 | 2900 | 9.3 | 2910 | 20000 | 14.3 | 2900 | 4.7 | 3980 | 20000 | |
| F 60 3_106.4 | 106.4 | 26.3 | 2900 | 8.6 | 3020 | 20000 | 13.2 | 2900 | 4.3 | 4070 | 20000 | |
| F 60 3_120.5 | 120.5 | 23.2 | 2900 | 7.6 | 2970 | 20000 | 11.6 | 2900 | 3.8 | 4030 | 20000 | |
| F 60 3_130.5 | 130.5 | 21.5 | 2900 | 7.0 | 3060 | 20000 | 10.7 | 2900 | 3.5 | 4110 | 20000 | |
| F 60 3_150.4 | 150.4 | 18.6 | 2900 | 6.1 | 3010 | 20000 | 9.3 | 2900 | 3.0 | 4060 | 20000 | |
| F 60 3_162.9 | 162.9 | 17.2 | 2900 | 5.6 | 3090 | 20000 | 8.6 | 2900 | 2.8 | 4140 | 20000 | |
| F 60 3_185.9 | 185.9 | 15.1 | 2900 | 4.9 | 3050 | 20000 | 7.5 | 2900 | 2.5 | 4100 | 20000 | |
| F 60 3_201.4 | 201.4 | 13.9 | 2900 | 4.6 | 3130 | 20000 | 7.0 | 2900 | 2.3 | 4180 | 20000 | |
| F 60 3_217.6 | 217.6 | 12.9 | 2900 | 4.2 | 3070 | 20000 | 6.4 | 2900 | 2.1 | 4120 | 20000 | |
| F 60 3_235.8 | 235.8 | 11.9 | 2900 | 3.9 | 3140 | 20000 | 5.9 | 2900 | 1.9 | 4190 | 20000 | |
| F 60 3_259.1 | 259.1 | 10.8 | 2900 | 3.5 | 3080 | 20000 | 5.4 | 2900 | 1.8 | 4130 | 20000 | |
| F 60 3_280.7 | 280.7 | 10.0 | 2900 | 3.3 | 3150 | 20000 | 5.0 | 2900 | 1.6 | 4200 | 20000 | |
| F 60 4_315.4 | 315.4 | 8.9 | 2900 | 3.0 | 3500 | 20000 | 4.4 | 2900 | 1.5 | 3500 | 20000 | |
| F 60 4_341.7 | 341.7 | 8.2 | 2900 | 2.8 | 3500 | 20000 | 4.1 | 2900 | 1.4 | 3500 | 20000 | |
| F 60 4_399.3 | 399.3 | 7.0 | 2900 | 2.4 | 3500 | 20000 | 3.5 | 2900 | 1.2 | 3500 | 20000 | |
| F 60 4_432.6 | 432.6 | 6.5 | 2900 | 2.2 | 3500 | 20000 | 3.2 | 2900 | 1.1 | 3500 | 20000 | |
| F 60 4_489.8 | 489.8 | 5.7 | 2900 | 1.9 | 3500 | 20000 | 2.9 | 2900 | 0.96 | 3500 | 20000 | |
| F 60 4_530.7 | 530.7 | 5.3 | 2900 | 1.8 | 3500 | 20000 | 2.6 | 2900 | 0.89 | 3500 | 20000 | |
| F 60 4_611.4 | 611.4 | 4.6 | 2900 | 1.5 | 3500 | 20000 | 2.3 | 2900 | 0.77 | 3500 | 20000 | |
| F 60 4_662.4 | 662.4 | 4.2 | 2900 | 1.4 | 3500 | 20000 | 2.1 | 2900 | 0.71 | 3500 | 20000 | |
| F 60 4_756.0 | 756.0 | 3.7 | 2900 | 1.2 | 3500 | 20000 | 1.9 | 2900 | 0.62 | 3500 | 20000 | |
| F 60 4_819.0 | 819.0 | 3.4 | 2900 | 1.1 | 3500 | 20000 | 1.7 | 2900 | 0.57 | 3500 | 20000 | |
| F 60 4_885.1 | 885.1 | 3.2 | 2900 | 1.1 | 3500 | 20000 | 1.6 | 2900 | 0.53 | 3500 | 20000 | |
| F 60 4_958.9 | 958.9 | 2.9 | 2900 | 0.98 | 3500 | 20000 | 1.5 | 2900 | 0.49 | 3500 | 20000 | |
| F 60 4_1054 | 1054 | 2.7 | 2900 | 0.89 | 3500 | 20000 | 1.3 | 2900 | 0.45 | 3500 | 20000 | |
| F 60 4_1141 | 1141 | 2.5 | 2900 | 0.83 | 3500 | 20000 | 1.2 | 2900 | 0.41 | 3500 | 20000 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

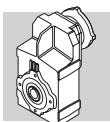


F 60



2900 Nm

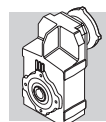
|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 60 3_9.0 | 9.0 | 100 | 1340 | 15.1 | — | 18800 | 56 | 1630 | 10.2 | — | 20000 | 441 |
| F 60 3_9.7 | 9.7 | 93 | 1460 | 15.3 | — | 19000 | 52 | 1780 | 10.4 | — | 20000 | |
| F 60 3_11.8 | 11.8 | 76 | 1500 | 12.9 | — | 20000 | 42 | 1830 | 8.8 | — | 20000 | |
| F 60 3_12.7 | 12.7 | 71 | 1620 | 13.0 | — | 20000 | 39 | 1900 | 8.4 | 600 | 20000 | |
| F 60 3_14.5 | 14.5 | 62 | 1620 | 11.4 | — | 20000 | 34 | 1900 | 7.4 | 490 | 20000 | |
| F 60 3_15.7 | 15.7 | 57 | 1750 | 11.3 | — | 20000 | 32 | 1900 | 6.8 | 1630 | 20000 | |
| F 60 3_19.1 | 19.1 | 47 | 1750 | 9.3 | — | 20000 | 26.2 | 1900 | 5.6 | 1660 | 20000 | |
| F 60 3_20.7 | 20.7 | 43 | 1900 | 9.3 | — | 20000 | 24.2 | 1900 | 5.2 | 2700 | 20000 | |
| F 60 3_23.5 | 23.5 | 38 | 1840 | 8.0 | — | 20000 | 21.3 | 1900 | 4.6 | 2340 | 20000 | |
| F 60 3_25.4 | 25.4 | 35 | 1900 | 7.6 | 620 | 20000 | 19.7 | 1900 | 4.2 | 3330 | 20000 | |
| F 60 3_29.6 | 29.6 | 30 | 2900 | 10.0 | 4220 | 20000 | 16.9 | 2900 | 5.5 | 4700 | 20000 | |
| F 60 3_32.1 | 32.1 | 28.0 | 2900 | 9.2 | 4350 | 20000 | 15.6 | 2900 | 5.1 | 4700 | 20000 | |
| F 60 3_38.8 | 38.8 | 23.2 | 2900 | 7.6 | 4420 | 20000 | 12.9 | 2900 | 4.2 | 4700 | 20000 | |
| F 60 3_42.1 | 42.1 | 21.4 | 2900 | 7.0 | 4530 | 20000 | 11.9 | 2900 | 3.9 | 4700 | 20000 | |
| F 60 3_47.8 | 47.8 | 18.8 | 2900 | 6.2 | 4530 | 20000 | 10.5 | 2900 | 3.4 | 4700 | 20000 | |
| F 60 3_51.8 | 51.8 | 17.4 | 2900 | 5.7 | 4640 | 20000 | 9.7 | 2900 | 3.2 | 4700 | 20000 | |
| F 60 3_63.0 | 63.0 | 14.3 | 2900 | 4.7 | 4660 | 20000 | 7.9 | 2900 | 2.6 | 4700 | 20000 | |
| F 60 3_68.3 | 68.3 | 13.2 | 2900 | 4.3 | 4700 | 20000 | 7.3 | 2900 | 2.4 | 4700 | 20000 | |
| F 60 3_77.6 | 77.6 | 11.6 | 2900 | 3.8 | 4700 | 20000 | 6.4 | 2900 | 2.1 | 4700 | 20000 | |
| F 60 3_84.0 | 84.0 | 10.7 | 2900 | 3.5 | 4700 | 20000 | 6.0 | 2900 | 1.9 | 4700 | 20000 | |
| F 60 3_98.2 | 98.2 | 9.2 | 2900 | 3.0 | 4700 | 20000 | 5.1 | 2900 | 1.7 | 4700 | 20000 | |
| F 60 3_106.4 | 106.4 | 8.5 | 2900 | 2.8 | 4700 | 20000 | 4.7 | 2900 | 1.5 | 4700 | 20000 | |
| F 60 3_120.5 | 120.5 | 7.5 | 2900 | 2.4 | 4700 | 20000 | 4.1 | 2900 | 1.4 | 4700 | 20000 | |
| F 60 3_130.5 | 130.5 | 6.9 | 2900 | 2.3 | 4700 | 20000 | 3.8 | 2900 | 1.3 | 4700 | 20000 | |
| F 60 3_150.4 | 150.4 | 6.0 | 2900 | 2.0 | 4700 | 20000 | 3.3 | 2900 | 1.1 | 4700 | 20000 | |
| F 60 3_162.9 | 162.9 | 5.5 | 2900 | 1.8 | 4700 | 20000 | 3.1 | 2900 | 1.0 | 4700 | 20000 | |
| F 60 3_185.9 | 185.9 | 4.8 | 2900 | 1.6 | 4700 | 20000 | 2.7 | 2900 | 0.88 | 4700 | 20000 | |
| F 60 3_201.4 | 201.4 | 4.5 | 2900 | 1.5 | 4700 | 20000 | 2.5 | 2900 | 0.81 | 4700 | 20000 | |
| F 60 3_217.6 | 217.6 | 4.1 | 2900 | 1.4 | 4700 | 20000 | 2.3 | 2900 | 0.75 | 4700 | 20000 | |
| F 60 3_235.8 | 235.8 | 3.8 | 2900 | 1.3 | 4700 | 20000 | 2.1 | 2900 | 0.69 | 4700 | 20000 | |
| F 60 3_259.1 | 259.1 | 3.5 | 2900 | 1.1 | 4700 | 20000 | 1.9 | 2900 | 0.63 | 4700 | 20000 | |
| F 60 3_280.7 | 280.7 | 3.2 | 2900 | 1.1 | 4700 | 20000 | 1.8 | 2900 | 0.58 | 4700 | 20000 | |
| F 60 4_315.4 | 315.4 | 2.9 | 2900 | 0.96 | 3500 | 20000 | 1.6 | 2900 | 0.53 | 3500 | 20000 | |
| F 60 4_341.7 | 341.7 | 2.6 | 2900 | 0.89 | 3500 | 20000 | 1.5 | 2900 | 0.49 | 3500 | 20000 | |
| F 60 4_399.3 | 399.3 | 2.3 | 2900 | 0.76 | 3500 | 20000 | 1.3 | 2900 | 0.42 | 3500 | 20000 | |
| F 60 4_432.6 | 432.6 | 2.1 | 2900 | 0.70 | 3500 | 20000 | 1.2 | 2900 | 0.39 | 3500 | 20000 | |
| F 60 4_489.8 | 489.8 | 1.8 | 2900 | 0.62 | 3500 | 20000 | 1.0 | 2900 | 0.34 | 3500 | 20000 | |
| F 60 4_530.7 | 530.7 | 1.7 | 2900 | 0.57 | 3500 | 20000 | 0.94 | 2900 | 0.32 | 3500 | 20000 | |
| F 60 4_611.4 | 611.4 | 1.5 | 2900 | 0.50 | 3500 | 20000 | 0.82 | 2900 | 0.28 | 3500 | 20000 | |
| F 60 4_662.4 | 662.4 | 1.4 | 2900 | 0.46 | 3500 | 20000 | 0.75 | 2900 | 0.25 | 3500 | 20000 | |
| F 60 4_756.0 | 756.0 | 1.2 | 2900 | 0.40 | 3500 | 20000 | 0.66 | 2900 | 0.22 | 3500 | 20000 | |
| F 60 4_819.0 | 819.0 | 1.1 | 2900 | 0.37 | 3500 | 20000 | 0.61 | 2900 | 0.21 | 3500 | 20000 | |
| F 60 4_885.1 | 885.1 | 1.0 | 2900 | 0.34 | 3500 | 20000 | 0.56 | 2900 | 0.19 | 3500 | 20000 | |
| F 60 4_958.9 | 958.9 | 0.94 | 2900 | 0.32 | 3500 | 20000 | 0.52 | 2900 | 0.18 | 3500 | 20000 | |
| F 60 4_1054 | 1054 | 0.85 | 2900 | 0.29 | 3500 | 20000 | 0.47 | 2900 | 0.16 | 3500 | 20000 | |
| F 60 4_1141 | 1141 | 0.79 | 2900 | 0.27 | 3500 | 20000 | 0.44 | 2900 | 0.15 | 3500 | 20000 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)





F 70 5000 Nm

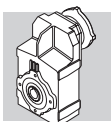
|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 70 3_10.0 | 10.0 | 280 | 2600 | 82 | 1410 | 14800 | 140 | 3200 | 51 | 1750 | 18200 | 445 |
| F 70 3_10.9 | 10.9 | 257 | 2800 | 81 | 1510 | 14700 | 128 | 3450 | 50 | 1840 | 18100 | |
| F 70 3_12.8 | 12.8 | 219 | 2900 | 72 | 860 | 15700 | 109 | 3600 | 44 | 880 | 19300 | |
| F 70 3_13.9 | 13.9 | 201 | 3150 | 72 | 810 | 15600 | 101 | 3900 | 44 | 880 | 19100 | |
| F 70 3_16.3 | 16.3 | 172 | 3250 | 63 | 570 | 16600 | 86 | 4000 | 39 | 710 | 20500 | |
| F 70 3_17.7 | 17.7 | 158 | 3550 | 63 | 430 | 16400 | 79 | 4350 | 39 | 630 | 20200 | |
| F 70 3_20.9 | 20.9 | 134 | 3450 | 52 | 690 | 18000 | 67 | 4000 | 30 | 2090 | 22700 | |
| F 70 3_22.6 | 22.6 | 124 | 3750 | 52 | 640 | 17800 | 62 | 4350 | 30 | 2010 | 22500 | |
| F 70 3_24.6 | 24.6 | 114 | 3550 | 46 | 560 | 19000 | 57 | 4000 | 26 | 2510 | 24200 | |
| F 70 3_27.7 | 27.7 | 101 | 3750 | 43 | 5070 | 19600 | 51 | 4650 | 27 | 6410 | 24100 | |
| F 70 3_30.0 | 30.0 | 93 | 4050 | 43 | 5080 | 19400 | 47 | 5000 | 26 | 6420 | 23900 | |
| F 70 3_35.4 | 35.4 | 79 | 4150 | 37 | 5070 | 20900 | 40 | 5000 | 22 | 6440 | 25900 | |
| F 70 3_38.4 | 38.4 | 73 | 4500 | 37 | 5060 | 20700 | 36 | 5000 | 21 | 6540 | 26500 | |
| F 70 3_45.2 | 45.2 | 62 | 4600 | 32 | 5080 | 22200 | 31 | 5000 | 17.5 | 6590 | 28700 | |
| F 70 3_49.0 | 49.0 | 57 | 4600 | 30 | 5170 | 22700 | 28.6 | 5000 | 16.1 | 6680 | 29300 | |
| F 70 3_57.7 | 57.7 | 49 | 5000 | 27 | 5090 | 23800 | 24.3 | 5000 | 13.7 | 6680 | 31600 | |
| F 70 3_62.5 | 62.5 | 45 | 5000 | 25 | 5170 | 24300 | 22.4 | 5000 | 12.7 | 6760 | 32300 | |
| F 70 3_67.9 | 67.9 | 41 | 5000 | 23 | 5110 | 25500 | 20.6 | 5000 | 11.6 | 6710 | 33600 | |
| F 70 3_73.6 | 73.6 | 38 | 5000 | 21 | 5190 | 26100 | 19.0 | 5000 | 10.7 | 6790 | 34400 | |
| F 70 3_85.4 | 85.4 | 33 | 5000 | 18.5 | 5190 | 28000 | 16.4 | 5000 | 9.3 | 6780 | 35000 | |
| F 70 3_92.5 | 92.5 | 30 | 5000 | 17.1 | 5260 | 28700 | 15.1 | 5000 | 8.5 | 6860 | 35000 | |
| F 70 3_101.2 | 101.2 | 27.7 | 5000 | 15.6 | 5220 | 30000 | 13.8 | 5000 | 7.8 | 6820 | 35000 | |
| F 70 3_109.6 | 109.6 | 25.5 | 5000 | 14.4 | 5290 | 30700 | 12.8 | 5000 | 7.2 | 6890 | 35000 | |
| F 70 3_122.7 | 122.7 | 22.8 | 5000 | 12.9 | 5250 | 32300 | 11.4 | 5000 | 6.4 | 6850 | 35000 | |
| F 70 3_133.0 | 133.0 | 21.1 | 5000 | 11.9 | 5320 | 33100 | 10.5 | 5000 | 5.9 | 6920 | 35000 | |
| F 70 3_153.8 | 153.8 | 18.2 | 5000 | 10.3 | 5280 | 35000 | 9.1 | 5000 | 5.1 | 6880 | 35000 | |
| F 70 3_166.7 | 166.7 | 16.8 | 5000 | 9.5 | 5350 | 35000 | 8.4 | 5000 | 4.7 | 6950 | 35000 | |
| F 70 3_180.9 | 180.9 | 15.5 | 5000 | 8.7 | 5310 | 35000 | 7.7 | 5000 | 4.4 | 6910 | 35000 | |
| F 70 3_196.0 | 196.0 | 14.3 | 5000 | 8.1 | 5370 | 35000 | 7.1 | 5000 | 4.0 | 6970 | 35000 | |
| F 70 4_216.5 | 216.5 | 12.9 | 5000 | 7.5 | 2130 | 35000 | 6.5 | 5000 | 3.7 | 2860 | 35000 | |
| F 70 4_234.6 | 234.6 | 11.9 | 5000 | 6.9 | 2130 | 35000 | 6.0 | 5000 | 3.5 | 2860 | 35000 | |
| F 70 4_280.9 | 280.9 | 10.0 | 5000 | 5.8 | 2200 | 35000 | 5.0 | 5000 | 2.9 | 2940 | 35000 | |
| F 70 4_304.3 | 304.3 | 9.2 | 5000 | 5.3 | 2200 | 35000 | 4.6 | 5000 | 2.7 | 2940 | 35000 | |
| F 70 4_372.5 | 372.5 | 7.5 | 5000 | 4.4 | 2260 | 35000 | 3.8 | 5000 | 2.2 | 3000 | 35000 | |
| F 70 4_403.5 | 403.5 | 6.9 | 5000 | 4.0 | 2260 | 35000 | 3.5 | 5000 | 2.0 | 3000 | 35000 | |
| F 70 4_471.2 | 471.2 | 5.9 | 5000 | 3.4 | 2300 | 35000 | 3.0 | 5000 | 1.7 | 3040 | 35000 | |
| F 70 4_510.4 | 510.4 | 5.5 | 5000 | 3.2 | 2300 | 35000 | 2.7 | 5000 | 1.6 | 3040 | 35000 | |
| F 70 4_606.8 | 606.8 | 4.6 | 5000 | 2.7 | 2340 | 35000 | 2.3 | 5000 | 1.3 | 3070 | 35000 | |
| F 70 4_657.4 | 657.4 | 4.3 | 5000 | 2.5 | 2340 | 35000 | 2.1 | 5000 | 1.2 | 3070 | 35000 | |
| F 70 4_759.0 | 759.0 | 3.7 | 5000 | 2.1 | 2360 | 35000 | 1.8 | 5000 | 1.1 | 3090 | 35000 | |
| F 70 4_822.2 | 822.2 | 3.4 | 5000 | 2.0 | 2360 | 35000 | 1.7 | 5000 | 1.0 | 3090 | 35000 | |
| F 70 4_899.4 | 899.4 | 3.1 | 5000 | 1.8 | 2370 | 35000 | 1.6 | 5000 | 0.90 | 3110 | 35000 | |
| F 70 4_974.4 | 974.4 | 2.9 | 5000 | 1.7 | 2370 | 35000 | 1.4 | 5000 | 0.83 | 3110 | 35000 | |
| F 70 4_1091 | 1091 | 2.6 | 5000 | 1.5 | 2390 | 35000 | 1.3 | 5000 | 0.74 | 3120 | 35000 | |
| F 70 4_1182 | 1182 | 2.4 | 5000 | 1.4 | 2390 | 35000 | 1.2 | 5000 | 0.69 | 3120 | 35000 | |
| F 70 4_1368 | 1368 | 2.0 | 5000 | 1.2 | 2400 | 35000 | 1.0 | 5000 | 0.59 | 3130 | 35000 | |
| F 70 4_1481 | 1481 | 1.9 | 5000 | 1.1 | 2400 | 35000 | 0.95 | 5000 | 0.55 | 3130 | 35000 | |
| F 70 4_1585 | 1585 | 1.8 | 5000 | 1.0 | 2410 | 35000 | 0.88 | 5000 | 0.51 | 3140 | 35000 | |
| F 70 4_1717 | 1717 | 1.6 | 5000 | 0.95 | 2410 | 35000 | 0.82 | 5000 | 0.47 | 3140 | 35000 | |
| F 70 4_2019 | 2019 | 1.4 | 5000 | 0.80 | 2420 | 35000 | 0.69 | 5000 | 0.40 | 3150 | 35000 | |
| F 70 4_2188 | 2188 | 1.3 | 5000 | 0.74 | 2420 | 35000 | 0.64 | 5000 | 0.37 | 3150 | 35000 | |





F 70 5000 Nm

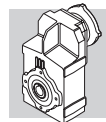
|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 70 3_10.0 | 10.0 | 90 | 3200 | 33 | 4870 | 21700 | 50 | 3200 | 18.1 | 7000 | 27000 | |
| F 70 3_10.9 | 10.9 | 83 | 3450 | 32 | 4970 | 21700 | 46 | 3450 | 17.9 | 7000 | 27200 | |
| F 70 3_12.8 | 12.8 | 70 | 3850 | 31 | 2540 | 22500 | 39 | 3600 | 15.9 | 7000 | 28300 | |
| F 70 3_13.9 | 13.9 | 65 | 4200 | 31 | 2380 | 22400 | 36 | 3900 | 15.8 | 7000 | 28300 | |
| F 70 3_16.3 | 16.3 | 55 | 4000 | 25 | 3830 | 24500 | 31 | 4000 | 13.9 | 7000 | 30700 | |
| F 70 3_17.7 | 17.7 | 51 | 4350 | 25 | 3750 | 24400 | 28.2 | 4350 | 13.9 | 7000 | 30800 | |
| F 70 3_20.9 | 20.9 | 43 | 4000 | 19.5 | 5210 | 27000 | 23.9 | 4000 | 10.8 | 7000 | 33700 | |
| F 70 3_22.6 | 22.6 | 40 | 4350 | 19.6 | 5130 | 26900 | 22.1 | 4350 | 10.9 | 7000 | 33800 | |
| F 70 3_24.6 | 24.6 | 37 | 4000 | 16.5 | 5630 | 28700 | 20.3 | 4000 | 9.2 | 7000 | 35000 | |
| F 70 3_27.7 | 27.7 | 32 | 5000 | 18.4 | 7000 | 28100 | 18.1 | 4650 | 9.5 | 7000 | 35000 | |
| F 70 3_30.0 | 30.0 | 30 | 5000 | 16.9 | 7000 | 28800 | 16.7 | 5000 | 9.4 | 7000 | 35000 | |
| F 70 3_35.4 | 35.4 | 25.4 | 5000 | 14.4 | 7000 | 31000 | 14.1 | 5000 | 8.0 | 7000 | 35000 | |
| F 70 3_38.4 | 38.4 | 23.4 | 5000 | 13.2 | 7000 | 31700 | 13.0 | 5000 | 7.4 | 7000 | 35000 | |
| F 70 3_45.2 | 45.2 | 19.9 | 5000 | 11.2 | 7000 | 34100 | 11.1 | 5000 | 6.2 | 7000 | 35000 | |
| F 70 3_49.0 | 49.0 | 18.4 | 5000 | 10.4 | 7000 | 34900 | 10.2 | 5000 | 5.8 | 7000 | 35000 | |
| F 70 3_57.7 | 57.7 | 15.6 | 5000 | 8.8 | 7000 | 35000 | 8.7 | 5000 | 4.9 | 7000 | 35000 | |
| F 70 3_62.5 | 62.5 | 14.4 | 5000 | 8.1 | 7000 | 35000 | 8.0 | 5000 | 4.5 | 7000 | 35000 | |
| F 70 3_67.9 | 67.9 | 13.3 | 5000 | 7.5 | 7000 | 35000 | 7.4 | 5000 | 4.2 | 7000 | 35000 | |
| F 70 3_73.6 | 73.6 | 12.2 | 5000 | 6.9 | 7000 | 35000 | 6.8 | 5000 | 3.8 | 7000 | 35000 | |
| F 70 3_85.4 | 85.4 | 10.5 | 5000 | 6.0 | 7000 | 35000 | 5.9 | 5000 | 3.3 | 7000 | 35000 | |
| F 70 3_92.5 | 92.5 | 9.7 | 5000 | 5.5 | 7000 | 35000 | 5.4 | 5000 | 3.1 | 7000 | 35000 | |
| F 70 3_101.2 | 101.2 | 8.9 | 5000 | 5.0 | 7000 | 35000 | 4.9 | 5000 | 2.8 | 7000 | 35000 | |
| F 70 3_109.6 | 109.6 | 8.2 | 5000 | 4.6 | 7000 | 35000 | 4.6 | 5000 | 2.6 | 7000 | 35000 | |
| F 70 3_122.7 | 122.7 | 7.3 | 5000 | 4.1 | 7000 | 35000 | 4.1 | 5000 | 2.3 | 7000 | 35000 | |
| F 70 3_133.0 | 133.0 | 6.8 | 5000 | 3.8 | 7000 | 35000 | 3.8 | 5000 | 2.1 | 7000 | 35000 | |
| F 70 3_153.8 | 153.8 | 5.9 | 5000 | 3.3 | 7000 | 35000 | 3.3 | 5000 | 1.8 | 7000 | 35000 | |
| F 70 3_166.7 | 166.7 | 5.4 | 5000 | 3.0 | 7000 | 35000 | 3.0 | 5000 | 1.7 | 7000 | 35000 | |
| F 70 3_180.9 | 180.9 | 5.0 | 5000 | 2.8 | 7000 | 35000 | 2.8 | 5000 | 1.6 | 7000 | 35000 | |
| F 70 3_196.0 | 196.0 | 4.6 | 5000 | 2.6 | 7000 | 35000 | 2.6 | 5000 | 1.4 | 7000 | 35000 | |
| F 70 4_216.5 | 216.5 | 4.2 | 5000 | 2.4 | 3430 | 35000 | 2.3 | 5000 | 1.3 | 3500 | 35000 | |
| F 70 4_234.6 | 234.6 | 3.8 | 5000 | 2.2 | 3430 | 35000 | 2.1 | 5000 | 1.2 | 3500 | 35000 | |
| F 70 4_280.9 | 280.9 | 3.2 | 5000 | 1.9 | 3500 | 35000 | 1.8 | 5000 | 1.0 | 3500 | 35000 | |
| F 70 4_304.3 | 304.3 | 3.0 | 5000 | 1.7 | 3500 | 35000 | 1.6 | 5000 | 0.95 | 3500 | 35000 | |
| F 70 4_372.5 | 372.5 | 2.4 | 5000 | 1.4 | 3500 | 35000 | 1.3 | 5000 | 0.78 | 3500 | 35000 | |
| F 70 4_403.5 | 403.5 | 2.2 | 5000 | 1.3 | 3500 | 35000 | 1.2 | 5000 | 0.72 | 3500 | 35000 | |
| F 70 4_471.2 | 471.2 | 1.9 | 5000 | 1.1 | 3500 | 35000 | 1.1 | 5000 | 0.62 | 3500 | 35000 | |
| F 70 4_510.4 | 510.4 | 1.8 | 5000 | 1.0 | 3500 | 35000 | 0.98 | 5000 | 0.57 | 3500 | 35000 | |
| F 70 4_606.8 | 606.8 | 1.5 | 5000 | 0.86 | 3500 | 35000 | 0.82 | 5000 | 0.48 | 3500 | 35000 | |
| F 70 4_657.4 | 657.4 | 1.4 | 5000 | 0.79 | 3500 | 35000 | 0.76 | 5000 | 0.44 | 3500 | 35000 | |
| F 70 4_759.0 | 759.0 | 1.2 | 5000 | 0.69 | 3500 | 35000 | 0.66 | 5000 | 0.38 | 3500 | 35000 | |
| F 70 4_822.2 | 822.2 | 1.1 | 5000 | 0.63 | 3500 | 35000 | 0.61 | 5000 | 0.35 | 3500 | 35000 | |
| F 70 4_899.4 | 899.4 | 1.0 | 5000 | 0.58 | 3500 | 35000 | 0.56 | 5000 | 0.32 | 3500 | 35000 | |
| F 70 4_974.4 | 974.4 | 0.92 | 5000 | 0.54 | 3500 | 35000 | 0.51 | 5000 | 0.30 | 3500 | 35000 | |
| F 70 4_1091 | 1091 | 0.82 | 5000 | 0.48 | 3500 | 35000 | 0.46 | 5000 | 0.27 | 3500 | 35000 | |
| F 70 4_1182 | 1182 | 0.76 | 5000 | 0.44 | 3500 | 35000 | 0.42 | 5000 | 0.25 | 3500 | 35000 | |
| F 70 4_1368 | 1368 | 0.66 | 5000 | 0.38 | 3500 | 35000 | 0.37 | 5000 | 0.21 | 3500 | 35000 | |
| F 70 4_1481 | 1481 | 0.61 | 5000 | 0.35 | 3500 | 35000 | 0.34 | 5000 | 0.20 | 3500 | 35000 | |
| F 70 4_1585 | 1585 | 0.57 | 5000 | 0.33 | 3500 | 35000 | 0.32 | 5000 | 0.18 | 3500 | 35000 | |
| F 70 4_1717 | 1717 | 0.52 | 5000 | 0.30 | 3500 | 35000 | 0.29 | 5000 | 0.17 | 3500 | 35000 | |
| F 70 4_2019 | 2019 | 0.45 | 5000 | 0.26 | 3500 | 35000 | 0.25 | 5000 | 0.14 | 3500 | 35000 | |
| F 70 4_2188 | 2188 | 0.41 | 5000 | 0.24 | 3500 | 35000 | 0.23 | 5000 | 0.13 | 3500 | 35000 | |

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



F 80 8000 Nm

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 80 3_10.3 | 10.3 | 272 | 3250 | 100 | 610 | 17200 | 136 | 4100 | 63 | 220 | 21800 | 448 |
| F 80 3_11.2 | 11.2 | 250 | 3520 | 99 | 620 | 17800 | 125 | 4440 | 63 | 230 | 21700 | |
| F 80 3_12.9 | 12.9 | 217 | 3560 | 87 | 670 | 18900 | 109 | 4480 | 55 | 350 | 23100 | |
| F 80 3_14.0 | 14.0 | 200 | 3850 | 87 | 700 | 18800 | 100 | 4860 | 55 | 310 | 23000 | |
| F 80 3_16.2 | 16.2 | 173 | 3760 | 73 | 760 | 20300 | 86 | 4740 | 46 | 430 | 24800 | |
| F 80 3_17.6 | 17.6 | 159 | 4000 | 72 | 730 | 20300 | 80 | 5140 | 46 | 410 | 24700 | |
| F 80 3_20.3 | 20.3 | 138 | 4060 | 63 | 780 | 21700 | 69 | 5120 | 40 | 440 | 26500 | |
| F 80 3_22.0 | 22.0 | 127 | 4400 | 63 | 780 | 21600 | 64 | 5540 | 40 | 470 | 26400 | |
| F 80 3_25.2 | 25.2 | 111 | 4230 | 53 | 700 | 23300 | 56 | 5330 | 33 | 360 | 28500 | |
| F 80 3_28.8 | 28.8 | 97 | 6550 | 72 | 4590 | 20500 | 49 | 8000 | 44 | 5890 | 25400 | |
| F 80 3_31.3 | 31.3 | 89 | 7100 | 72 | 4590 | 20000 | 45 | 8000 | 40 | 6040 | 26000 | |
| F 80 3_36.0 | 36.0 | 78 | 7250 | 64 | 4560 | 21500 | 39 | 8000 | 35 | 6110 | 28100 | |
| F 80 3_39.0 | 39.0 | 72 | 6700 | 54 | 4890 | 23000 | 36 | 8000 | 32 | 6240 | 28800 | |
| F 80 3_45.3 | 45.3 | 62 | 7900 | 55 | 4440 | 22700 | 31 | 8000 | 28 | 6240 | 31100 | |
| F 80 3_49.1 | 49.1 | 57 | 8000 | 52 | 4750 | 23200 | 28.5 | 8000 | 26 | 6360 | 31900 | |
| F 80 3_56.7 | 56.7 | 49 | 8000 | 45 | 4780 | 25200 | 24.7 | 8000 | 22 | 6390 | 34300 | |
| F 80 3_61.5 | 61.5 | 46 | 8000 | 41 | 4890 | 25800 | 22.8 | 8000 | 21 | 6500 | 35100 | |
| F 80 3_70.4 | 70.4 | 40 | 8000 | 36 | 4850 | 27800 | 19.9 | 8000 | 18.0 | 6460 | 37500 | |
| F 80 3_76.3 | 76.3 | 37 | 8000 | 33 | 4950 | 28500 | 18.3 | 8000 | 16.6 | 6560 | 38400 | |
| F 80 3_85.2 | 85.2 | 33 | 8000 | 30 | 4940 | 30300 | 16.4 | 8000 | 14.8 | 6550 | 40500 | |
| F 80 3_92.3 | 92.3 | 30 | 8000 | 27 | 5040 | 31000 | 15.2 | 8000 | 13.7 | 6640 | 41500 | |
| F 80 3_105.0 | 105.0 | 26.7 | 8000 | 24 | 5000 | 33200 | 13.3 | 8000 | 12.0 | 6610 | 44000 | |
| F 80 3_113.8 | 113.8 | 24.6 | 8000 | 22 | 5090 | 34000 | 12.3 | 8000 | 11.1 | 6700 | 45000 | |
| F 80 3_122.5 | 122.5 | 22.9 | 8000 | 21 | 5020 | 35400 | 11.4 | 8000 | 10.3 | 6630 | 45000 | |
| F 80 3_132.7 | 132.7 | 21.1 | 8000 | 19.1 | 5110 | 36200 | 10.6 | 8000 | 9.5 | 6720 | 45000 | |
| F 80 3_147.9 | 147.9 | 18.9 | 8000 | 17.1 | 5060 | 38200 | 9.5 | 8000 | 8.6 | 6660 | 45000 | |
| F 80 3_160.2 | 160.2 | 17.5 | 8000 | 15.8 | 5140 | 39100 | 8.7 | 8000 | 7.9 | 6750 | 45000 | |
| F 80 3_184.6 | 184.6 | 15.2 | 8000 | 13.7 | 5090 | 41800 | 7.6 | 8000 | 6.9 | 6700 | 45000 | |
| F 80 3_200.0 | 200.0 | 14.0 | 8000 | 12.7 | 5180 | 42800 | 7.0 | 8000 | 6.3 | 6780 | 45000 | |
| F 80 4_218.5 | 218.5 | 12.8 | 8000 | 11.9 | 1020 | 45000 | 6.4 | 8000 | 5.9 | 2400 | 45000 | |
| F 80 4_273.9 | 273.9 | 10.2 | 8000 | 9.5 | 1470 | 45000 | 5.1 | 8000 | 4.7 | 2680 | 45000 | |
| F 80 4_296.7 | 296.7 | 9.4 | 8000 | 8.8 | 1470 | 45000 | 4.7 | 8000 | 4.4 | 2680 | 45000 | |
| F 80 4_353.7 | 353.7 | 7.9 | 8000 | 7.3 | 1850 | 45000 | 4.0 | 8000 | 3.7 | 2770 | 45000 | |
| F 80 4_383.2 | 383.2 | 7.3 | 8000 | 6.8 | 1850 | 45000 | 3.7 | 8000 | 3.4 | 2770 | 45000 | |
| F 80 4_451.5 | 451.5 | 6.2 | 8000 | 5.8 | 2040 | 45000 | 3.1 | 8000 | 2.9 | 2820 | 45000 | |
| F 80 4_489.1 | 489.1 | 5.7 | 8000 | 5.3 | 2040 | 45000 | 2.9 | 8000 | 2.7 | 2820 | 45000 | |
| F 80 4_563.9 | 563.9 | 5.0 | 8000 | 4.6 | 2130 | 45000 | 2.5 | 8000 | 2.3 | 2860 | 45000 | |
| F 80 4_610.9 | 610.9 | 4.6 | 8000 | 4.3 | 2130 | 45000 | 2.3 | 8000 | 2.1 | 2860 | 45000 | |
| F 80 4_714.9 | 714.9 | 3.9 | 8000 | 3.6 | 2160 | 45000 | 2.0 | 8000 | 1.8 | 2890 | 45000 | |
| F 80 4_774.4 | 774.4 | 3.6 | 8000 | 3.4 | 2160 | 45000 | 1.8 | 8000 | 1.7 | 2890 | 45000 | |
| F 80 4_897.3 | 897.3 | 3.1 | 8000 | 2.9 | 2200 | 45000 | 1.6 | 8000 | 1.4 | 2930 | 45000 | |
| F 80 4_972.0 | 972.0 | 2.9 | 8000 | 2.7 | 2200 | 45000 | 1.4 | 8000 | 1.3 | 2930 | 45000 | |
| F 80 4_1058 | 1058 | 2.6 | 8000 | 2.5 | 2210 | 45000 | 1.3 | 8000 | 1.2 | 2950 | 45000 | |
| F 80 4_1146 | 1146 | 2.4 | 8000 | 2.3 | 2210 | 45000 | 1.2 | 8000 | 1.1 | 2950 | 45000 | |
| F 80 4_1277 | 1277 | 2.2 | 8000 | 2.0 | 2230 | 45000 | 1.1 | 8000 | 1.0 | 2960 | 45000 | |
| F 80 4_1384 | 1384 | 2.0 | 8000 | 1.9 | 2230 | 45000 | 1.0 | 8000 | 0.94 | 2960 | 45000 | |
| F 80 4_1578 | 1578 | 1.8 | 8000 | 1.6 | 2240 | 45000 | 0.89 | 8000 | 0.82 | 2970 | 45000 | |
| F 80 4_1709 | 1709 | 1.6 | 8000 | 1.5 | 2240 | 45000 | 0.82 | 8000 | 0.76 | 2970 | 45000 | |
| F 80 4_1834 | 1834 | 1.5 | 8000 | 1.4 | 2250 | 45000 | 0.76 | 8000 | 0.71 | 2980 | 45000 | |
| F 80 4_1987 | 1987 | 1.4 | 8000 | 1.3 | 2250 | 45000 | 0.70 | 8000 | 0.65 | 2980 | 45000 | |

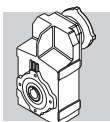


F 80 8000 Nm

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 80 3_10.3 | 10.3 | 87 | 4740 | 47 | — | 24700 | 49 | 5770 | 32 | — | 29300 | |
| F 80 3_11.2 | 11.2 | 80 | 5140 | 47 | — | 24600 | 45 | 6250 | 32 | — | 29200 | |
| F 80 3_12.9 | 12.9 | 70 | 5200 | 41 | — | 26200 | 39 | 6320 | 28 | — | 31100 | |
| F 80 3_14.0 | 14.0 | 64 | 5620 | 41 | — | 26100 | 36 | 6800 | 27 | — | 31000 | |
| F 80 3_16.2 | 16.2 | 56 | 5490 | 34 | — | 28200 | 31 | 6250 | 22 | 1540 | 34200 | |
| F 80 3_17.6 | 17.6 | 51 | 5960 | 34 | — | 28100 | 28.4 | 6800 | 22 | 1410 | 30000 | |
| F 80 3_20.3 | 20.3 | 44 | 5930 | 30 | — | 30100 | 24.6 | 6250 | 17.4 | 3710 | 37300 | |
| F 80 3_22.0 | 22.0 | 41 | 6420 | 30 | — | 30000 | 22.7 | 6800 | 17.5 | 3590 | 37200 | |
| F 80 3_25.2 | 25.2 | 36 | 6175 | 25 | — | 32400 | 19.8 | 6250 | 14.0 | 4660 | 40500 | |
| F 80 3_28.8 | 28.8 | 31 | 8000 | 28 | 7000 | 31000 | 17.4 | 8000 | 15.7 | 7000 | 39600 | |
| F 80 3_31.3 | 31.3 | 28.8 | 8000 | 26 | 7000 | 31700 | 16.0 | 8000 | 14.4 | 7000 | 40600 | |
| F 80 3_36.0 | 36.0 | 25.0 | 8000 | 23 | 7000 | 34100 | 13.9 | 8000 | 12.6 | 7000 | 43300 | |
| F 80 3_39.0 | 39.0 | 23.1 | 8000 | 21 | 7000 | 34900 | 12.8 | 8000 | 11.6 | 7000 | 44300 | |
| F 80 3_45.3 | 45.3 | 19.9 | 8000 | 18.0 | 7000 | 37500 | 11.0 | 8000 | 10.0 | 7000 | 45000 | |
| F 80 3_49.1 | 49.1 | 18.3 | 8000 | 16.6 | 7000 | 38400 | 10.2 | 8000 | 9.2 | 7000 | 45000 | |
| F 80 3_56.7 | 56.7 | 15.9 | 8000 | 14.3 | 7000 | 41100 | 8.8 | 8000 | 8.0 | 7000 | 45000 | |
| F 80 3_61.5 | 61.5 | 14.6 | 8000 | 13.2 | 7000 | 42000 | 8.1 | 8000 | 7.3 | 7000 | 45000 | |
| F 80 3_70.4 | 70.4 | 12.8 | 8000 | 11.6 | 7000 | 44700 | 7.1 | 8000 | 6.4 | 7000 | 45000 | |
| F 80 3_76.3 | 76.3 | 11.8 | 8000 | 10.7 | 7000 | 45000 | 6.6 | 8000 | 5.9 | 7000 | 45000 | |
| F 80 3_85.2 | 85.2 | 10.6 | 8000 | 9.5 | 7000 | 45000 | 5.9 | 8000 | 5.3 | 7000 | 45000 | |
| F 80 3_92.3 | 92.3 | 9.8 | 8000 | 8.8 | 7000 | 45000 | 5.4 | 8000 | 4.9 | 7000 | 45000 | |
| F 80 3_105.0 | 105.0 | 8.6 | 8000 | 7.7 | 7000 | 45000 | 4.8 | 8000 | 4.3 | 7000 | 45000 | |
| F 80 3_113.8 | 113.8 | 7.9 | 8000 | 7.1 | 7000 | 45000 | 4.4 | 8000 | 4.0 | 7000 | 45000 | |
| F 80 3_122.5 | 122.5 | 7.3 | 8000 | 6.6 | 7000 | 45000 | 4.1 | 8000 | 3.7 | 7000 | 45000 | |
| F 80 3_132.7 | 132.7 | 6.8 | 8000 | 6.1 | 7000 | 45000 | 3.8 | 8000 | 3.4 | 7000 | 45000 | |
| F 80 3_147.9 | 147.9 | 6.1 | 8000 | 5.5 | 7000 | 45000 | 3.4 | 8000 | 3.1 | 7000 | 45000 | |
| F 80 3_160.2 | 160.2 | 5.6 | 8000 | 5.1 | 7000 | 45000 | 3.1 | 8000 | 2.8 | 7000 | 45000 | |
| F 80 3_184.6 | 184.6 | 4.9 | 8000 | 4.4 | 7000 | 45000 | 2.7 | 8000 | 2.4 | 7000 | 45000 | |
| F 80 3_200.0 | 200.0 | 4.5 | 8000 | 4.1 | 7000 | 45000 | 2.5 | 8000 | 2.3 | 7000 | 45000 | |
| F 80 4_218.5 | 218.5 | 4.1 | 8000 | 3.8 | 3130 | 45000 | 2.3 | 8000 | 2.1 | 3500 | 45000 | |
| F 80 4_273.9 | 273.9 | 3.3 | 8000 | 3.0 | 3240 | 45000 | 1.8 | 8000 | 1.7 | 3500 | 45000 | |
| F 80 4_296.7 | 296.7 | 3.0 | 8000 | 2.8 | 3240 | 45000 | 1.7 | 8000 | 1.6 | 3500 | 45000 | |
| F 80 4_353.7 | 353.7 | 2.5 | 8000 | 2.4 | 3330 | 45000 | 1.4 | 8000 | 1.3 | 3500 | 45000 | |
| F 80 4_383.2 | 383.2 | 2.3 | 8000 | 2.2 | 3330 | 45000 | 1.3 | 8000 | 1.2 | 3500 | 45000 | |
| F 80 4_451.5 | 451.5 | 2.0 | 8000 | 1.8 | 3380 | 45000 | 1.1 | 8000 | 1.0 | 3500 | 45000 | |
| F 80 4_489.1 | 489.1 | 1.8 | 8000 | 1.7 | 3380 | 45000 | 1.0 | 8000 | 0.95 | 3500 | 45000 | |
| F 80 4_563.9 | 563.9 | 1.6 | 8000 | 1.5 | 3420 | 45000 | 0.89 | 8000 | 0.82 | 3500 | 45000 | |
| F 80 4_610.9 | 610.9 | 1.5 | 8000 | 1.4 | 3420 | 45000 | 0.82 | 8000 | 0.76 | 3500 | 45000 | |
| F 80 4_714.9 | 714.9 | 1.3 | 8000 | 1.2 | 3460 | 45000 | 0.70 | 8000 | 0.65 | 3500 | 45000 | |
| F 80 4_774.4 | 774.4 | 1.2 | 8000 | 1.1 | 3460 | 45000 | 0.65 | 8000 | 0.60 | 3500 | 45000 | |
| F 80 4_897.3 | 897.3 | 1.0 | 8000 | 0.93 | 3490 | 45000 | 0.56 | 8000 | 0.52 | 3500 | 45000 | |
| F 80 4_972.0 | 972.0 | 0.93 | 8000 | 0.86 | 3490 | 45000 | 0.51 | 8000 | 0.48 | 3500 | 45000 | |
| F 80 4_1058 | 1058 | 0.85 | 8000 | 0.79 | 3500 | 45000 | 0.47 | 8000 | 0.44 | 3500 | 45000 | |
| F 80 4_1146 | 1146 | 0.79 | 8000 | 0.73 | 3500 | 45000 | 0.44 | 8000 | 0.40 | 3500 | 45000 | |
| F 80 4_1277 | 1277 | 0.70 | 8000 | 0.65 | 3500 | 45000 | 0.39 | 8000 | 0.36 | 3500 | 45000 | |
| F 80 4_1384 | 1384 | 0.65 | 8000 | 0.60 | 3500 | 45000 | 0.36 | 8000 | 0.34 | 3500 | 45000 | |
| F 80 4_1578 | 1578 | 0.57 | 8000 | 0.53 | 3500 | 45000 | 0.32 | 8000 | 0.29 | 3500 | 45000 | |
| F 80 4_1709 | 1709 | 0.53 | 8000 | 0.49 | 3500 | 45000 | 0.29 | 8000 | 0.27 | 3500 | 45000 | |
| F 80 4_1834 | 1834 | 0.49 | 8000 | 0.46 | 3500 | 45000 | 0.27 | 8000 | 0.25 | 3500 | 45000 | |
| F 80 4_1987 | 1987 | 0.45 | 8000 | 0.42 | 3500 | 45000 | 0.25 | 8000 | 0.23 | 3500 | 45000 | |



448

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

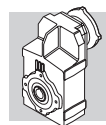


F 90



14000 Nm

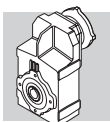
|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|-------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 90 3_10.3 | 10.3 | 272 | 6500 | 200 | 5480 | 23800 | 136 | 8000 | 123 | 8000 | 29300 | 451 |
| F 90 3_11.1 | 11.1 | 252 | 7150 | 204 | 5280 | 23300 | 126 | 8800 | 125 | 7770 | 28700 | |
| F 90 3_13.4 | 13.4 | 209 | 7550 | 178 | 4880 | 25000 | 104 | 9300 | 110 | 7280 | 30700 | |
| F 90 3_14.5 | 14.5 | 193 | 8100 | 177 | 5000 | 24700 | 97 | 10000 | 109 | 7400 | 30300 | |
| F 90 3_16.5 | 16.5 | 170 | 8400 | 161 | 4540 | 26000 | 85 | 10300 | 99 | 6960 | 32000 | |
| F 90 3_17.9 | 17.9 | 156 | 8950 | 158 | 4560 | 25700 | 78 | 11000 | 97 | 7180 | 31700 | |
| F 90 3_20.6 | 20.6 | 136 | 9200 | 141 | 3980 | 27400 | 68 | 11300 | 87 | 6260 | 33700 | |
| F 90 3_22.3 | 22.3 | 126 | 9750 | 138 | 4280 | 27100 | 63 | 12000 | 85 | 6590 | 33400 | |
| F 90 3_25.4 | 25.4 | 110 | 10050 | 125 | 3620 | 28700 | 55 | 12000 | 75 | 6310 | 36000 | |
| F 90 3_28.6 | 28.6 | 98 | 9750 | 108 | 9800 | 30900 | 49 | 12000 | 66 | 12400 | 38000 | |
| F 90 3_31.0 | 31.0 | 90 | 10550 | 108 | 9800 | 30300 | 45 | 13000 | 66 | 12400 | 37300 | |
| F 90 3_37.4 | 37.4 | 75 | 10950 | 93 | 9820 | 32800 | 37 | 13500 | 57 | 12400 | 40400 | |
| F 90 3_40.5 | 40.5 | 69 | 11900 | 93 | 9820 | 32100 | 35 | 14000 | 55 | 12500 | 40600 | |
| F 90 3_46.1 | 46.1 | 61 | 12050 | 83 | 9840 | 34300 | 30 | 14000 | 48 | 12600 | 43600 | |
| F 90 3_49.9 | 49.9 | 56 | 13050 | 83 | 9840 | 33500 | 28.1 | 14000 | 44 | 12700 | 44700 | |
| F 90 3_57.3 | 57.3 | 49 | 13050 | 72 | 9810 | 36300 | 24.4 | 14000 | 39 | 12700 | 48100 | |
| F 90 3_62.1 | 62.1 | 45 | 14000 | 71 | 9830 | 35600 | 22.5 | 14000 | 36 | 12800 | 49300 | |
| F 90 3_70.8 | 70.8 | 40 | 14000 | 63 | 9830 | 38500 | 19.8 | 14000 | 31 | 12800 | 52700 | |
| F 90 3_76.7 | 76.7 | 37 | 14000 | 58 | 9960 | 39500 | 18.3 | 14000 | 29 | 13000 | 54000 | |
| F 90 3_88.4 | 88.4 | 32 | 14000 | 50 | 9930 | 42800 | 15.8 | 14000 | 25 | 12900 | 55000 | |
| F 90 3_95.8 | 95.8 | 29.2 | 14000 | 46 | 10100 | 43800 | 14.6 | 14000 | 23 | 13100 | 55000 | |
| F 90 3_103.3 | 103.3 | 27.1 | 14000 | 43 | 9960 | 45900 | 13.6 | 14000 | 21 | 13000 | 55000 | |
| F 90 3_111.9 | 111.9 | 25.0 | 14000 | 40 | 10100 | 47100 | 12.5 | 14000 | 19.8 | 13100 | 55000 | |
| F 90 3_126.8 | 126.8 | 22.1 | 14000 | 35 | 10000 | 50300 | 11.0 | 14000 | 17.5 | 13000 | 55000 | |
| F 90 3_137.3 | 137.3 | 20.4 | 14000 | 32 | 10100 | 51500 | 10.2 | 14000 | 16.1 | 13100 | 55000 | |
| F 90 3_150.3 | 150.3 | 18.6 | 14000 | 29 | 10100 | 54000 | 9.3 | 14000 | 14.7 | 13100 | 55000 | |
| F 90 3_162.8 | 162.8 | 17.2 | 14000 | 27 | 10200 | 55000 | 8.6 | 14000 | 13.6 | 13200 | 55000 | |
| F 90 3_179.2 | 179.2 | 15.6 | 14000 | 25 | 10200 | 55000 | 7.8 | 14000 | 12.4 | 13100 | 55000 | |
| F 90 3_194.2 | 194.2 | 14.4 | 14000 | 23 | 10200 | 55000 | 7.2 | 14000 | 11.4 | 13200 | 55000 | |
| F 90 4_213.6 | 213.6 | 13.1 | 14000 | 21 | — | 55000 | 6.6 | 14000 | 10.6 | — | 55000 | |
| F 90 4_231.4 | 231.4 | 12.1 | 14000 | 19.6 | — | 55000 | 6.1 | 14000 | 9.8 | — | 55000 | |
| F 90 4_268.7 | 268.7 | 10.4 | 14000 | 16.9 | — | 55000 | 5.2 | 14000 | 8.5 | 420 | 55000 | |
| F 90 4_291.1 | 291.1 | 9.6 | 14000 | 15.6 | — | 55000 | 4.8 | 14000 | 7.8 | 420 | 55000 | |
| F 90 4_361.8 | 361.8 | 7.7 | 14000 | 12.6 | — | 55000 | 3.9 | 14000 | 6.3 | 990 | 55000 | |
| F 90 4_392.0 | 392.0 | 7.1 | 14000 | 11.6 | — | 55000 | 3.6 | 14000 | 5.8 | 990 | 55000 | |
| F 90 4_457.5 | 457.5 | 6.1 | 14000 | 9.9 | — | 55000 | 3.1 | 14000 | 5.0 | 1390 | 55000 | |
| F 90 4_495.6 | 495.6 | 5.6 | 14000 | 9.2 | — | 55000 | 2.8 | 14000 | 4.6 | 1390 | 55000 | |
| F 90 4_577.5 | 577.5 | 4.8 | 14000 | 7.9 | — | 55000 | 2.4 | 14000 | 3.9 | 1600 | 55000 | |
| F 90 4_625.6 | 625.6 | 4.5 | 14000 | 7.3 | — | 55000 | 2.2 | 14000 | 3.6 | 1600 | 55000 | |
| F 90 4_714.0 | 714.0 | 3.9 | 14000 | 6.4 | — | 55000 | 2.0 | 14000 | 3.2 | 1800 | 55000 | |
| F 90 4_773.4 | 773.4 | 3.6 | 14000 | 5.9 | — | 55000 | 1.8 | 14000 | 2.9 | 1800 | 55000 | |
| F 90 4_910.2 | 910.2 | 3.1 | 14000 | 5.0 | — | 55000 | 1.5 | 14000 | 2.5 | 2020 | 55000 | |
| F 90 4_986.0 | 986.0 | 2.8 | 14000 | 4.6 | — | 55000 | 1.4 | 14000 | 2.3 | 2020 | 55000 | |
| F 90 4_1112 | 1112 | 2.5 | 14000 | 4.1 | — | 55000 | 1.3 | 14000 | 2.0 | 2110 | 55000 | |
| F 90 4_1205 | 1205 | 2.3 | 14000 | 3.8 | — | 55000 | 1.2 | 14000 | 1.9 | 2110 | 55000 | |
| F 90 4_1318 | 1318 | 2.1 | 14000 | 3.4 | — | 55000 | 1.1 | 14000 | 1.7 | 2220 | 55000 | |
| F 90 4_1428 | 1428 | 2.0 | 14000 | 3.2 | — | 55000 | 0.98 | 14000 | 1.6 | 2220 | 55000 | |
| F 90 4_1571 | 1571 | 1.8 | 14000 | 2.9 | — | 55000 | 0.89 | 14000 | 1.4 | 2260 | 55000 | |
| F 90 4_1702 | 1702 | 1.6 | 14000 | 2.7 | — | 55000 | 0.82 | 14000 | 1.3 | 2260 | 55000 | |
| F 90 4_1937 | 1937 | 1.4 | 14000 | 2.3 | — | 55000 | 0.72 | 14000 | 1.2 | 2300 | 55000 | |
| F 90 4_2099 | 2099 | 1.3 | 14000 | 2.2 | — | 55000 | 0.67 | 14000 | 1.1 | 2300 | 55000 | |

(—) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



F 90 14000 Nm

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|-------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| F 90 3_10.3 | 10.3 | 87 | 9150 | 90 | 10000 | 33400 | 49 | 9600 | 53 | 15000 | 41900 | 451 |
| F 90 3_11.1 | 11.1 | 81 | 10050 | 92 | 9780 | 32700 | 45 | 10400 | 53 | 15000 | 41600 | |
| F 90 3_13.4 | 13.4 | 67 | 10600 | 80 | 9270 | 35100 | 37 | 12500 | 53 | 12700 | 42100 | |
| F 90 3_14.5 | 14.5 | 62 | 11400 | 80 | 9390 | 34600 | 34 | 13550 | 53 | 12700 | 41400 | |
| F 90 3_16.5 | 16.5 | 55 | 11750 | 72 | 8890 | 36600 | 30 | 12300 | 42 | 14600 | 46400 | |
| F 90 3_17.9 | 17.9 | 50 | 12550 | 71 | 9140 | 36200 | 27.9 | 13150 | 41 | 14800 | 46200 | |
| F 90 3_20.6 | 20.6 | 44 | 12200 | 60 | 9100 | 39700 | 24.3 | 12200 | 33 | 15000 | 51000 | |
| F 90 3_22.3 | 22.3 | 40 | 13200 | 60 | 9120 | 39000 | 22.4 | 13200 | 33 | 15000 | 50700 | |
| F 90 3_25.4 | 25.4 | 35 | 12000 | 48 | 10400 | 43800 | 19.7 | 12000 | 27 | 15000 | 55000 | |
| F 90 3_28.6 | 28.6 | 31 | 13700 | 49 | 14400 | 43400 | 17.5 | 14000 | 28 | 15000 | 55000 | |
| F 90 3_31.0 | 31.0 | 29.0 | 14000 | 46 | 14500 | 44000 | 16.1 | 14000 | 26 | 15000 | 55000 | |
| F 90 3_37.4 | 37.4 | 24.1 | 14000 | 38 | 14700 | 48400 | 13.4 | 14000 | 21 | 15000 | 55000 | |
| F 90 3_40.5 | 40.5 | 22.2 | 14000 | 35 | 14800 | 49600 | 12.3 | 14000 | 19.5 | 15000 | 55000 | |
| F 90 3_46.1 | 46.1 | 19.5 | 14000 | 31 | 14900 | 53000 | 10.8 | 14000 | 17.2 | 15000 | 55000 | |
| F 90 3_49.9 | 49.9 | 18.0 | 14000 | 29 | 15000 | 54200 | 10.0 | 14000 | 15.8 | 15000 | 55000 | |
| F 90 3_57.3 | 57.3 | 15.7 | 14000 | 25 | 15000 | 55000 | 8.7 | 14000 | 13.8 | 15000 | 55000 | |
| F 90 3_62.1 | 62.1 | 14.5 | 14000 | 23 | 15000 | 55000 | 8.1 | 14000 | 12.7 | 15000 | 55000 | |
| F 90 3_70.8 | 70.8 | 12.7 | 14000 | 20 | 15000 | 55000 | 7.1 | 14000 | 11.2 | 15000 | 55000 | |
| F 90 3_76.7 | 76.7 | 11.7 | 14000 | 18.6 | 15000 | 55000 | 6.5 | 14000 | 10.3 | 15000 | 55000 | |
| F 90 3_88.4 | 88.4 | 10.2 | 14000 | 16.1 | 15000 | 55000 | 5.7 | 14000 | 8.9 | 15000 | 55000 | |
| F 90 3_95.8 | 95.8 | 9.4 | 14000 | 14.9 | 15000 | 55000 | 5.2 | 14000 | 8.3 | 15000 | 55000 | |
| F 90 3_103.3 | 103.3 | 8.7 | 14000 | 13.8 | 15000 | 55000 | 4.8 | 14000 | 7.7 | 15000 | 55000 | |
| F 90 3_111.9 | 111.9 | 8.0 | 14000 | 12.7 | 15000 | 55000 | 4.5 | 14000 | 7.1 | 15000 | 55000 | |
| F 90 3_126.8 | 126.8 | 7.1 | 14000 | 11.2 | 15000 | 55000 | 3.9 | 14000 | 6.2 | 15000 | 55000 | |
| F 90 3_137.3 | 137.3 | 6.6 | 14000 | 10.4 | 15000 | 55000 | 3.6 | 14000 | 5.8 | 15000 | 55000 | |
| F 90 3_150.3 | 150.3 | 6.0 | 14000 | 9.5 | 15000 | 55000 | 3.3 | 14000 | 5.3 | 15000 | 55000 | |
| F 90 3_162.8 | 162.8 | 5.5 | 14000 | 8.7 | 15000 | 55000 | 3.1 | 14000 | 4.9 | 15000 | 55000 | |
| F 90 3_179.2 | 179.2 | 5.0 | 14000 | 7.9 | 15000 | 55000 | 2.8 | 14000 | 4.4 | 15000 | 55000 | |
| F 90 3_194.2 | 194.2 | 4.6 | 14000 | 7.3 | 15000 | 55000 | 2.6 | 14000 | 4.1 | 15000 | 55000 | |
| F 90 4_213.6 | 213.6 | 4.2 | 14000 | 6.8 | 810 | 55000 | 2.3 | 14000 | 3.8 | 2350 | 55000 | |
| F 90 4_231.4 | 231.4 | 3.9 | 14000 | 6.3 | 810 | 55000 | 2.2 | 14000 | 3.5 | 2350 | 55000 | |
| F 90 4_268.7 | 268.7 | 3.3 | 14000 | 5.4 | 1390 | 55000 | 1.9 | 14000 | 3.0 | 2920 | 55000 | |
| F 90 4_291.1 | 291.1 | 3.1 | 14000 | 5.0 | 1390 | 55000 | 1.7 | 14000 | 2.8 | 2920 | 55000 | |
| F 90 4_361.8 | 361.8 | 2.5 | 14000 | 4.0 | 1960 | 55000 | 1.4 | 14000 | 2.2 | 3390 | 55000 | |
| F 90 4_392.0 | 392.0 | 2.3 | 14000 | 3.7 | 1960 | 55000 | 1.3 | 14000 | 2.1 | 3390 | 55000 | |
| F 90 4_457.5 | 457.5 | 2.0 | 14000 | 3.2 | 2360 | 55000 | 1.1 | 14000 | 1.8 | 3490 | 55000 | |
| F 90 4_495.6 | 495.6 | 1.8 | 14000 | 2.9 | 2360 | 55000 | 1.0 | 14000 | 1.6 | 3490 | 55000 | |
| F 90 4_577.5 | 577.5 | 1.6 | 14000 | 2.5 | 2570 | 55000 | 0.87 | 14000 | 1.4 | 3500 | 55000 | |
| F 90 4_625.6 | 625.6 | 1.4 | 14000 | 2.3 | 2570 | 55000 | 0.80 | 14000 | 1.3 | 3500 | 55000 | |
| F 90 4_714.0 | 714.0 | 1.3 | 14000 | 2.0 | 2770 | 55000 | 0.70 | 14000 | 1.1 | 3500 | 55000 | |
| F 90 4_773.4 | 773.4 | 1.2 | 14000 | 1.9 | 2770 | 55000 | 0.65 | 14000 | 1.0 | 3500 | 55000 | |
| F 90 4_910.2 | 910.2 | 0.99 | 14000 | 1.6 | 2840 | 55000 | 0.55 | 14000 | 0.89 | 3500 | 55000 | |
| F 90 4_986.0 | 986.0 | 0.91 | 14000 | 1.5 | 2840 | 55000 | 0.51 | 14000 | 0.82 | 3500 | 55000 | |
| F 90 4_1112 | 1112 | 0.81 | 14000 | 1.3 | 2860 | 55000 | 0.45 | 14000 | 0.73 | 3500 | 55000 | |
| F 90 4_1205 | 1205 | 0.75 | 14000 | 1.2 | 2860 | 55000 | 0.41 | 14000 | 0.67 | 3500 | 55000 | |
| F 90 4_1318 | 1318 | 0.68 | 14000 | 1.1 | 2890 | 55000 | 0.38 | 14000 | 0.62 | 3500 | 55000 | |
| F 90 4_1428 | 1428 | 0.63 | 14000 | 1.0 | 2890 | 55000 | 0.35 | 14000 | 0.57 | 3500 | 55000 | |
| F 90 4_1571 | 1571 | 0.57 | 14000 | 0.93 | 2900 | 55000 | 0.32 | 14000 | 0.52 | 3500 | 55000 | |
| F 90 4_1702 | 1702 | 0.53 | 14000 | 0.86 | 2900 | 55000 | 0.29 | 14000 | 0.48 | 3500 | 55000 | |
| F 90 4_1937 | 1937 | 0.46 | 14000 | 0.75 | 2910 | 55000 | 0.26 | 14000 | 0.42 | 3500 | 55000 | |
| F 90 4_2099 | 2099 | 0.43 | 14000 | 0.70 | 2910 | 55000 | 0.24 | 14000 | 0.39 | 3500 | 55000 | |



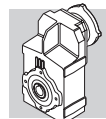
56 PREDISPOSITIONS MOTEUR

Dans les tableaux (D55) et (D56) sont indiqués les accouplements possibles en termes de dimensions.


Le choix le plus approprié du motoréducteur à utiliser doit être effectué selon les indications du paragraphe 11, ainsi qu'en fonction des tableaux de sélection, respectant en particulier la condition $S \geq f_s$.

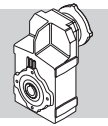
(D 55)

| | | IEC_  (IM B5) | | | | | | | | |
|--------|-----|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------|----------------------------|------------|------------|
| | | P63 P71 | P80 P90 | P100 P112 | P132 | P160 | P180 | P200 | P225 | P250 |
| F 10 2 | | 7.4_127.1 | 7.4_91.5 | 7.4_91.5 | | | | | | |
| F 20 2 | | 8.7_132.2 ⊖ (14.8_18.1) | 6.4_114.3 | 6.4_114.3 | | | | | | |
| F 20 3 | | 156.3_545.3 | 156.3_545.3 | 156.3_545.3 | | | | | | |
| F 25 2 | | 9.4_44.4 ⊖ (10.6_13.0) | 6.9_44.4 | 6.9_44.4 | | | | | | |
| F 25 3 | | 50.8_333.1 | 45.6_288.1 | 45.6_288.1 | | | | | | |
| F 25 4 | | 393.9_1374 | 393.9_1374 | 393.9_1374 | | | | | | |
| F 31 2 | | 18.5_44.6 | 6.9_44.6 | 6.9_44.6 | 6.9_37.7 | | | | | |
| F 31 3 | | 69.1_374.4 | 47.5_374.4 | 47.5_374.4 | 47.5_140.7 | | | | | |
| F 31 4 | | 418.9_1539 | 418.9_1539 | 418.9_1539 | | | | | | |
| F 41 2 | | 24.1_47.9 | 6.7_47.9 | 6.7_47.9 | 6.7_47.9 | | | | | |
| F 41 3 | | 84.9_344.8 | 51.5_344.8 | 51.5_344.8 | 51.5_168.7 | | | | | |
| F 41 4 | i = | 433.7_1411 | 433.7_1411 | 433.7_1411 | | | | | | |
| F 51 2 | | 30.0_37.1 | 7.2_37.1 | 7.2_37.1 | 7.2_37.1 | 7.2_37.1 | 7.2_37.1 | | | |
| F 51 3 | | 105.1_352.5 | 48.9_352.5 | 48.9_352.5 | 48.9_202.4 | 48.9_202.4 | 48.9_202.4 | | | |
| F 51 4 | | 429.1_1439 | 429.1_1439 | 429.1_1439 | 429.1_826.4 | | | | | |
| F 60 3 | | 98.2_280.7 ⊖ (29.6_32.1) | 11.8_280.7 ⊖ (29.6_32.1) | 11.8_280.7 ⊖ (29.6_32.1) | 9.0_201.4 | 9.0_201.4 | 9.0_201.4 | | | |
| F 60 4 | | 315.4_1141 | 315.4_1141 | 315.4_1141 | | | | | | |
| F 70 3 | | | 85.4_196.0 | 85.4_196.0 | 16.3_196.0 ⊖ (27.7_38.4) | 10.0_196.0 | 10.0_196.0 | 10.0_49.0 ⊖ (20.9_24.6) | | |
| F 70 4 | | 372.5_2188 | 216.5_2188 | 216.5_2188 | 216.5_822.2 | | | | | |
| F 80 3 | | | 105.0_200.0 | 105.0_200.0 | 20.3_200.0 ⊖ (28.8_49.1) | 12.9_200.0 ⊖ (28.8_31.3) | 10.3_200.0 | 10.3_132.7 | 10.3_132.7 | |
| F 80 4 | | 451.5_1987 | 218.5_1987 | 218.5_1987 | 218.5_972.0 | | | | | |
| F 90 3 | | | 126.8_194.2 | 126.8_194.2 | 25.4_194.2 ⊖ (28.6_62.1) | 20.6_194.2 ⊖ (28.6_49.9) | 10.3_194.2 | 10.3_162.8 | 10.3_162.8 | 10.3_162.8 |
| F 90 4 | | 577.5_2099 | 213.6_2099 | 213.6_2099 | 213.6_1205 | 213.6_1205 | 213.6_1205 | | | |



(D 56)

| | |  | | | | | |
|--------|-----|---|--------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| | | M05 | M1 | M2 | M3 | M4 | M5 |
| F 10 2 | | 7.4_127.1 | 7.4_71.1 | 7.4_91.5 | 7.4_91.5 | | |
| F 20 2 | | 8.7_132.2 ⊖(14.8_18.1) | 8.7_90.4 ⊖(14.8_18.1) | 6.4_114.3 | 6.4_114.3 | | |
| F 20 3 | | 156.3_545.3 | 156.3_545.3 | 156.3_545.3 | 156.3_545.3 | | |
| F 25 2 | | 9.4_44.4 ⊖(10.6_13.0) | 9.4_44.4 ⊖(10.6_13.0) | 6.9_44.4 | 6.9_44.4 | | |
| F 25 3 | | 50.8_333.1 | 50.8_227.8 | 45.6_288.1 | 45.6_288.1 | | |
| F 25 4 | | 393.9_1374 | 393.9_1374 | 393.9_1374 | 393.9_1374 | | |
| F 31 2 | | | 18.5_44.6 | 6.9_44.6 | 6.9_44.6 | 6.9_37.7 | |
| F 31 3 | | | 69.1_293.8 | 47.5_374.4 | 47.5_374.4 | 47.5_140.7 | |
| F 31 4 | | 418.9_1539 | 418.9_1539 | 418.9_1539 | 418.9_1539 | | |
| F 41 2 | | | 24.1_47.9 | 6.7_47.9 | 6.7_47.9 | 6.7_47.9 | |
| F 41 3 | | | 84.9_344.8 | 51.5_344.8 | 51.5_344.8 | 51.5_168.7 | |
| F 41 4 | i = | 433.7_1411 | 433.7_1411 | 433.7_1411 | 433.7_1411 | | |
| F 51 2 | | | 30.0_37.1 | 7.2_37.1 | 7.2_37.1 | 7.2_37.1 | 7.2_37.1 |
| F 51 3 | | | 105.1_352.5 | 48.9_352.5 | 48.9_352.5 | 48.9_202.4 | 48.9_202.4 |
| F 51 4 | | | 429.1_1439 | 429.1_1439 | 429.1_1439 | 429.1_826.4 | |
| F 60 3 | | | | 11.8_280.7 ⊖(29.6_32.1) | 11.8_280.7 ⊖(29.6_32.1) | 9_201.4 | 9_201.4 |
| F 60 4 | | | 315.4_1141 | 315.4_1141 | 315.4_1141 | | |
| F 70 3 | | | | 85.4_196.0 | 85.4_196.0 | 16.3_196.0 ⊖(27.7_38.4) | 16.3_196.0 ⊖(27.7_38.4) |
| F 70 4 | | | 372.5_2188 | 216.5_2188 | 216.5_2188 | 216.5_822.2 | |
| F 80 3 | | | | | 105.0_200.0 ⊖(28.8_49.1) | 20.3_200.0 ⊖(28.8_49.1) | 20.3_200.0 ⊖(28.8_49.1) |
| F 80 4 | | | 451.5_1987 | 218.5_1987 | 218.5_1987 | 218.5_972.0 | |
| F 90 3 | | | | | 126.8_194.2 ⊖(28.6_62.1) | 25.4_194.2 ⊖(28.6_62.1) | 25.4_194.2 ⊖(28.6_62.1) |
| F 90 4 | | | | 213.6_2099 | 213.6_2099 | 213.6_1205 | |



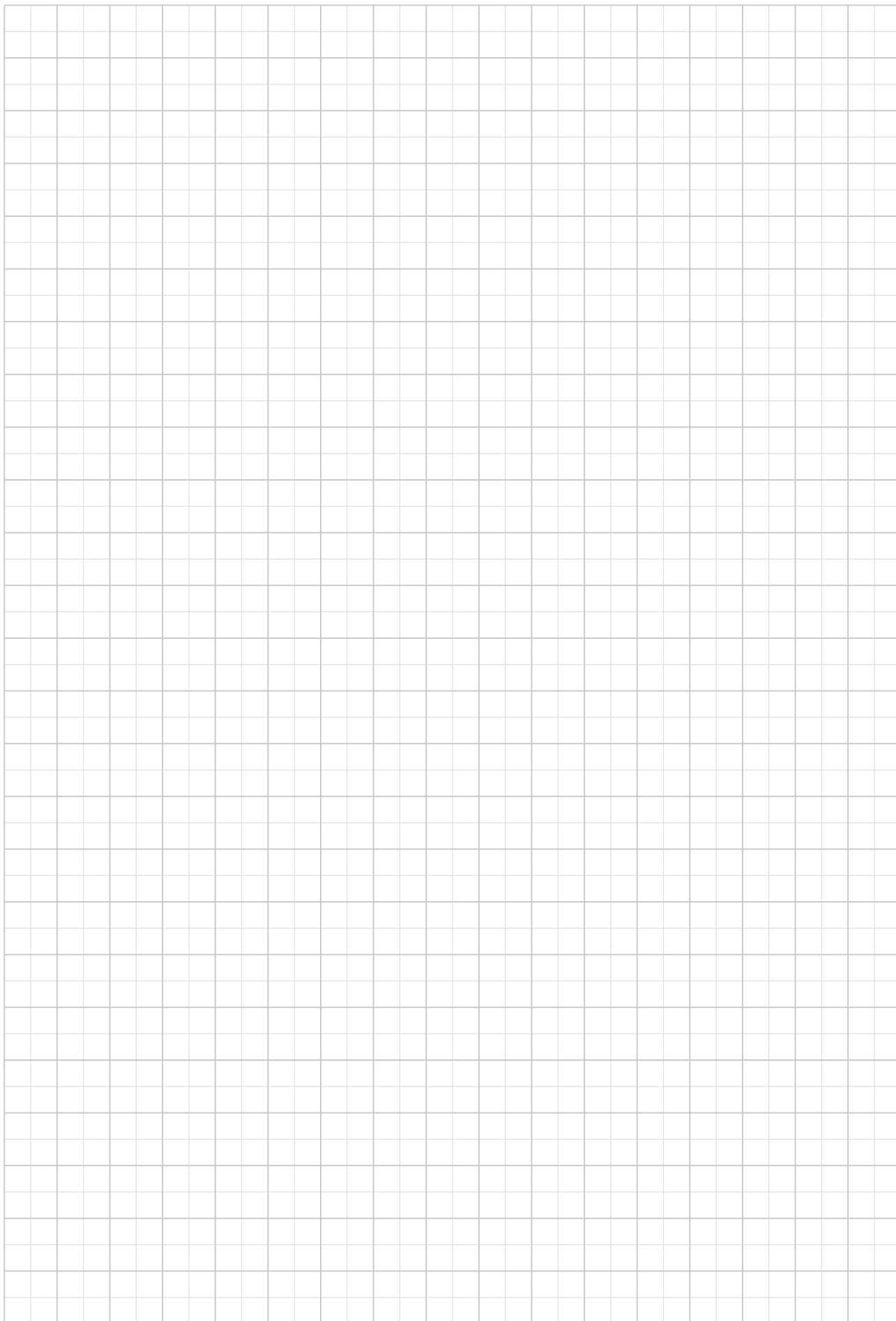
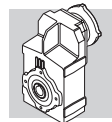
Sont disponibles des prédispositions pour l'accouplement des réducteurs F 10 ... F 60 avec les servo-moteurs les plus répandus. Les dimensions des brides sont indiquées dans les pages des dimensions de chaque réducteur. Le code **SK** indique un arbre d'entrée muni d'une rainure de clavette ; le code **SC** indique un arbre d'entrée muni d'une frette de serrage (fournie).

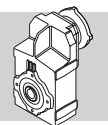
(D 57)

| | | SERVO INPUT | | | | | | | |
|---------------|-----|---------------------------|--------------------------|--------------------------|-------------|----------------------------|--------------------------|----------------------------|----------------------------|
| | | SK60A | SK60B | SK80A | SK80B | SK80C | SK95A | SK95B | SK95C |
| | | SC60A | SC60B | SC80A | SC80B | SC80C | SC95A | SC95B | SC95C |
| F 10 2 | i = | 7.4_127.1 | 7.4_71.1 | 7.4_71.1 | | 7.4_91.5 | 7.4_71.1 | 7.4_91.5 | 7.4_91.5 |
| F 20 2 | | 8.7_132.2 ⊖(14.8_18.1) | 8.7_90.4 ⊖(14.8_18.1) | 8.7_90.4 ⊖(14.8_18.1) | | 6.4_114.3 | 8.7_90.4 ⊖(14.8_18.1) | 6.4_114.3 | 6.4_114.3 |
| F 20 3 | | 156.3_545.3 | 156.3_545.3 | 156.3_545.3 | | 156.3_545.3 | 156.3_545.3 | 156.3_545.3 | 156.3_545.3 |
| F 25 2 | | 9.4_44.4 ⊖(10.6_13.0) | 9.4_44.4 ⊖(10.6_13.0) | 9.4_44.4 ⊖(10.6_13.0) | | 6.9_44.4 | 9.4_44.4 ⊖(10.6_13.0) | 6.9_44.4 | 6.9_44.4 |
| F 25 3 | | 45.6_333.1 | 45.6_227.8 | 45.6_227.8 | | 45.6_288.1 | 45.6_227.8 | 45.6_288.1 | 45.6_288.1 |
| F 25 4 | | 393.9_1374 | 393.9_1374 | 393.9_1374 | | 393.9_1374 | 393.9_1374 | 393.9_1374 | 393.9_1374 |
| F 31 2 | | 18.5_44.6 | 18.5_44.6 | 18.5_44.6 | | 6.9_44.6 | 18.5_44.6 | 6.9_44.6 | 6.9_44.6 |
| F 31 3 | | 69.1_374.4 | 69.1_293.8 | 69.1_293.8 | | 47.5_374.4 | 69.1_293.8 | 47.5_374.4 | 47.5_374.4 |
| F 31 4 | | 418.9_1539 | 418.9_1539 | 418.9_1539 | | 418.9_1539 | 418.9_1539 | 418.9_1539 | 418.9_1539 |
| F 41 2 | | | | | 24.1_47.9 | 6.7_47.9 | 24.1_47.9 | 6.7_47.9 | 6.7_47.9 |
| F 41 3 | | | | | 84.9_344.8 | 51.5_344.8 | 84.9_344.8 | 51.5_344.8 | 51.5_344.8 |
| F 41 4 | | 433.7_1411 | 433.7_1411 | 433.7_1411 | | 433.7_1411 | 433.7_1411 | 433.7_1411 | 433.7_1411 |
| F 51 2 | | | | | 30.0_37.1 | 7.2_37.1 | 30.0_37.1 | 7.2_37.1 | 7.2_37.1 |
| F 51 3 | | | | | 105.1_352.5 | 48.9_352.5 | 105.1_352.5 | 48.9_352.5 | 48.9_352.5 |
| F 51 4 | | | | | | 429.1_1439 | 429.1_1439 | 429.1_1439 | 429.1_1439 |
| F 60 3 | | | | | | 11.8_280.7 ⊖(29.6_32.1) | 106.4_280.7 | 11.8_280.7 ⊖(29.6_32.1) | 11.8_280.7 ⊖(29.6_32.1) |
| F 60 4 | | | | | 315.4_1141 | 315.4_1141 | 315.4_1141 | 315.4_1141 | 315.4_1141 |

(D 58)

| | | SERVO INPUT | | | | | |
|---------------|-----|----------------------------|----------------------------|----------------------------|------------|------------|------------|
| | | SK110A | SK110B | SK130A | SK130B | SK180A | SK180B |
| | | SC110A | SC110B | SC130A | SC130B | SC180A | SC180B |
| F 10 2 | i = | 7.4_91.5 | 7.4_91.5 | | | | |
| F 20 2 | | 6.4_114.3 | 6.4_114.3 | | | | |
| F 20 3 | | 156.3_545.3 | 156.3_545.3 | | | | |
| F 25 2 | | 6.9_44.4 | 6.9_44.4 | | | | |
| F 25 3 | | 45.6_288.1 | 45.6_288.1 | | | | |
| F 25 4 | | 393.9_1374 | 393.9_1374 | | | | |
| F 31 2 | | 6.9_44.6 | 6.9_44.6 | 6.9_44.6 | | | |
| F 31 3 | | 47.5_374.4 | 47.5_374.4 | 47.5_374.4 | | | |
| F 31 4 | | 418.9_1539 | 418.9_1539 | | | | |
| F 41 2 | | 6.7_47.9 | 6.7_47.9 | 6.7_47.9 | 6.7_47.9 | 6.7_47.9 | 6.7_47.9 |
| F 41 3 | | 51.5_344.8 | 51.5_344.8 | 51.5_344.8 | 51.5_168.7 | 51.5_168.7 | 51.5_168.7 |
| F 41 4 | | 433.7_1411 | 433.7_1411 | | | | |
| F 51 2 | | 7.2_37.1 | 7.2_37.1 | 7.2_37.1 | 7.2_37.1 | 7.2_37.1 | 7.2_37.1 |
| F 51 3 | | 48.9_352.5 | 48.9_352.5 | 48.9_352.5 | 48.9_202.4 | 48.9_202.4 | 48.9_202.4 |
| F 51 4 | | 429.1_1439 | 429.1_1439 | 429.1_1439 | | | |
| F 60 3 | | 11.8_280.7 ⊖(29.6_32.1) | 11.8_280.7 ⊖(29.6_32.1) | 11.8_280.7 ⊖(29.6_32.1) | 9.0_201.4 | 9.0_201.4 | 9.0_201.4 |
| F 60 4 | | 315.4_1141 | 315.4_1141 | 315.4_1141 | | | |





57 MOMENT D'INERTIE

Les tableaux suivants indiquent les valeurs du moment d'inertie J_r [kgm²] au niveau de l'arbre rapide du réducteur ; pour une plus grande facilité de lecture, nous vous prions de noter les définitions des symboles employés.



Les valeurs liées à ces symboles sont à assigner au réducteur compact sans moteur. Dans ce cas, afin d'avoir le moment d'inertie total du motoréducteur, on devra additionner la valeur correspondant au réducteur compact, à celle du moteur à assembler (donnée que l'on peut repérer dans les tableaux des caractéristiques techniques des moteurs électriques).



Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour accouplement moteur seulement (taille IEC...).






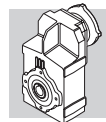
Les valeurs liées au réducteur sont assignées à ce symbole




Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour liaison a servomoteur.

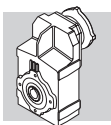
F 10

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | |
|--------------|-------|---|--|------|-----|-----|-----|-----|---|
| | |  |  | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | |
| F 10 2_7.4 | 7.4 | 1.0 | 1.8 | 1.8 | 3.8 | 3.7 | 4.9 | 4.9 | 1.7 |
| F 10 2_8.6 | 8.6 | 0.77 | 1.5 | 1.5 | 3.6 | 3.5 | 4.7 | 4.7 | 1.5 |
| F 10 2_9.8 | 9.8 | 0.64 | 1.4 | 1.4 | 3.4 | 3.3 | 4.5 | 4.5 | 1.3 |
| F 10 2_11.5 | 11.5 | 0.48 | 1.2 | 1.2 | 3.3 | 3.2 | 4.4 | 4.4 | 1.2 |
| F 10 2_13.0 | 13.0 | 0.38 | 1.1 | 1.1 | 3.2 | 3.1 | 4.3 | 4.3 | 1.1 |
| F 10 2_14.6 | 14.6 | 0.61 | 1.4 | 1.4 | 3.4 | 3.3 | 4.5 | 4.5 | 1.3 |
| F 10 2_17.0 | 17.0 | 0.48 | 1.3 | 1.2 | 3.3 | 3.2 | 4.4 | 4.4 | 1.2 |
| F 10 2_19.3 | 19.3 | 0.41 | 1.2 | 1.2 | 3.2 | 3.1 | 4.3 | 4.3 | 1.1 |
| F 10 2_22.8 | 22.8 | 0.32 | 1.1 | 1.1 | 3.1 | 3.0 | 4.2 | 4.2 | 1.0 |
| F 10 2_25.8 | 25.8 | 0.25 | 1.0 | 1.0 | 3.1 | 2.9 | 4.1 | 4.1 | 0.93 |
| F 10 2_29.6 | 29.6 | 0.19 | 1.0 | 0.95 | 3.0 | 2.9 | 4.1 | 4.1 | 0.87 |
| F 10 2_33.0 | 33.0 | 0.16 | 0.93 | 0.92 | 3.0 | 2.8 | 4.1 | 4.1 | 0.84 |
| F 10 2_35.3 | 35.3 | 0.14 | 0.92 | 0.90 | 3.0 | 2.8 | 4.0 | 4.0 | 0.83 |
| F 10 2_39.6 | 39.6 | 0.12 | 0.90 | 0.88 | 2.9 | 2.8 | 4.0 | 4.0 | 0.80 |
| F 10 2_44.7 | 44.7 | 0.10 | 0.88 | 0.86 | 2.9 | 2.8 | 4.0 | 4.0 | 0.79 |
| F 10 2_48.7 | 48.7 | 0.09 | 0.86 | 0.85 | 2.9 | 2.8 | 4.0 | 4.0 | 0.77 |
| F 10 2_56.7 | 56.7 | 0.07 | 0.84 | 0.83 | 2.9 | 2.7 | 4.0 | 4.0 | 0.75 |
| F 10 2_63.0 | 63.0 | 0.06 | 0.83 | 0.82 | 2.9 | 2.7 | 3.9 | 3.9 | 0.74 |
| F 10 2_71.1 | 71.1 | 0.05 | 0.82 | 0.81 | 2.8 | 2.7 | 3.9 | 3.9 | 0.73 |
| F 10 2_81.3 | 81.3 | 0.04 | 0.78 | 0.77 | 2.8 | 2.7 | 3.9 | 3.9 | 0.67 |
| F 10 2_91.5 | 91.5 | 0.03 | 0.78 | 0.76 | 2.8 | 2.7 | 3.9 | 3.9 | 0.66 |
| F 10 2_106.0 | 106.0 | 0.03 | 0.77 | 0.76 | — | — | — | — | 0.66 |
| F 10 2_127.1 | 127.1 | 0.02 | 0.76 | 0.75 | — | — | — | — | 0.65 |




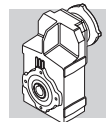
F 10

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|--------------|-------|---|------|------------|------|-----|-----|--------------------|-----|-------------|-----|
| | |  SERVO | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| F 10 2_7.4 | 7.4 | 1.3 | 1.5 | 1.3 | 1.7 | 3.8 | 4.3 | 3.8 | 4.3 | 3.7 | 4.7 |
| F 10 2_8.6 | 8.6 | 1.0 | 1.3 | 1.1 | 1.5 | 3.6 | 4.0 | 3.6 | 4.1 | 3.5 | 4.5 |
| F 10 2_9.8 | 9.8 | 0.91 | 1.2 | 0.93 | 1.4 | 3.5 | 3.9 | 3.4 | 3.9 | 3.3 | 4.3 |
| F 10 2_11.5 | 11.5 | 0.75 | 1.0 | 0.77 | 1.2 | 3.3 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 |
| F 10 2_13.0 | 13.0 | 0.65 | 0.91 | 0.67 | 1.1 | 3.2 | 3.6 | 3.2 | 3.7 | 3.1 | 4.1 |
| F 10 2_14.6 | 14.6 | 0.88 | 1.1 | 0.91 | 1.3 | 3.4 | 3.9 | 3.4 | 3.9 | 3.3 | 4.3 |
| F 10 2_17.0 | 17.0 | 0.75 | 1.0 | 0.77 | 1.2 | 3.3 | 3.7 | 3.3 | 3.8 | 3.2 | 4.2 |
| F 10 2_19.3 | 19.3 | 0.68 | 0.94 | 0.70 | 1.1 | 3.2 | 3.7 | 3.2 | 3.7 | 3.1 | 4.1 |
| F 10 2_22.8 | 22.8 | 0.59 | 0.85 | 0.61 | 1.0 | 3.1 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 |
| F 10 2_25.8 | 25.8 | 0.52 | 0.78 | 0.54 | 0.98 | 3.1 | 3.5 | 3.1 | 3.6 | 2.9 | 3.9 |
| F 10 2_29.6 | 29.6 | 0.46 | 0.72 | 0.48 | 0.92 | 3.0 | 3.4 | 3.0 | 3.5 | 2.9 | 3.9 |
| F 10 2_33.0 | 33.0 | 0.43 | 0.69 | 0.45 | 0.89 | 3.0 | 3.4 | 3.0 | 3.5 | 2.8 | 3.8 |
| F 10 2_35.3 | 35.3 | 0.41 | 0.67 | 0.43 | 0.87 | 3.0 | 3.4 | 3.0 | 3.5 | 2.8 | 3.8 |
| F 10 2_39.6 | 39.6 | 0.39 | 0.65 | 0.41 | 0.85 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| F 10 2_44.7 | 44.7 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 |
| F 10 2_48.7 | 48.7 | 0.36 | 0.62 | 0.38 | 0.82 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 |
| F 10 2_56.7 | 56.7 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 |
| F 10 2_63.0 | 63.0 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 |
| F 10 2_71.1 | 71.1 | 0.32 | 0.58 | 0.34 | 0.78 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 10 2_81.3 | 81.3 | 0.31 | 0.57 | — | — | — | — | 2.8 | 3.3 | 2.7 | 3.7 |
| F 10 2_91.5 | 91.5 | 0.30 | 0.56 | — | — | — | — | 2.8 | 3.3 | 2.7 | 3.7 |
| F 10 2_106.0 | 106.0 | 0.30 | 0.56 | — | — | — | — | — | — | — | — |
| F 10 2_127.1 | 127.1 | 0.29 | 0.55 | — | — | — | — | — | — | — | — |




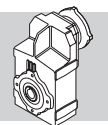
F 20

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | |
|--------------|-------|---|------|------|-----|-----|-----|-----|------|
| | |  | 63 | 71 | 80 | 90 | 100 | 112 | |
| F 20 2_6.4 | 6.4 | 2.2 | — | — | 5.0 | 4.8 | 6.0 | 6.0 | 3.9 |
| F 20 2_7.8 | 7.8 | 1.5 | — | — | 4.3 | 4.2 | 5.4 | 5.4 | 3.3 |
| F 20 2_8.7 | 8.7 | 1.3 | 2.0 | 2.0 | 4.1 | 3.9 | 5.2 | 5.2 | 3.0 |
| F 20 2_10.0 | 10.0 | 1.0 | 1.8 | 1.7 | 3.8 | 3.7 | 4.9 | 4.9 | 2.7 |
| F 20 2_11.2 | 11.2 | 0.88 | 1.6 | 1.6 | 3.6 | 3.5 | 4.7 | 4.7 | 2.6 |
| F 20 2_14.8 | 14.8 | 1.2 | — | — | 4.0 | 3.9 | 5.1 | 5.1 | 2.9 |
| F 20 2_18.1 | 18.1 | 0.90 | — | — | 3.7 | 3.5 | 4.7 | 4.7 | 2.6 |
| F 20 2_20.2 | 20.2 | 0.78 | 1.5 | 1.5 | 3.5 | 3.4 | 4.6 | 4.6 | 2.5 |
| F 20 2_23.1 | 23.1 | 0.64 | 1.4 | 1.3 | 3.4 | 3.3 | 4.5 | 4.5 | 2.4 |
| F 20 2_25.9 | 25.9 | 0.57 | 1.3 | 1.3 | 3.3 | 3.2 | 4.4 | 4.4 | 2.3 |
| F 20 2_30.4 | 30.4 | 0.41 | 1.1 | 1.1 | 3.2 | 3.0 | 4.3 | 4.3 | 2.1 |
| F 20 2_33.1 | 33.1 | 0.36 | 1.1 | 1.1 | 3.1 | 3.0 | 4.2 | 4.2 | 2.1 |
| F 20 2_37.9 | 37.9 | 0.30 | 1.0 | 1.0 | 3.1 | 2.9 | 4.1 | 4.1 | 2.0 |
| F 20 2_41.8 | 41.8 | 0.27 | 1.0 | 1.0 | 3.0 | 2.9 | 4.1 | 4.1 | 2.0 |
| F 20 2_44.8 | 44.8 | 0.24 | 1.0 | 1.0 | 3.0 | 2.9 | 4.1 | 4.1 | 2.0 |
| F 20 2_50.7 | 50.7 | 0.21 | 0.93 | 0.92 | 3.0 | 2.8 | 4.1 | 4.1 | 1.9 |
| F 20 2_56.7 | 56.7 | 0.18 | 0.91 | 0.90 | 2.9 | 2.8 | 4.0 | 4.0 | 1.9 |
| F 20 2_61.9 | 61.9 | 0.16 | 0.89 | 0.88 | 2.9 | 2.8 | 4.0 | 4.0 | 1.9 |
| F 20 2_69.1 | 69.1 | 0.14 | 0.87 | 0.86 | 2.9 | 2.8 | 4.0 | 4.0 | 1.8 |
| F 20 2_76.8 | 76.8 | 0.12 | 0.86 | 0.85 | 2.9 | 2.8 | 4.0 | 4.0 | 1.8 |
| F 20 2_90.4 | 90.4 | 0.10 | 0.84 | 0.82 | 2.9 | 2.7 | 3.9 | 3.9 | 1.8 |
| F 20 2_101.6 | 101.6 | 0.09 | 0.80 | 0.79 | 2.8 | 2.7 | 3.9 | 3.9 | 1.8 |
| F 20 2_114.3 | 114.3 | 0.08 | 0.79 | 0.77 | 2.8 | 2.7 | 3.9 | 3.9 | 1.8 |
| F 20 2_132.2 | 132.2 | 0.03 | 0.78 | 0.77 | — | — | — | — | 1.8 |
| F 20 3_156.3 | 156.3 | 0.04 | 0.81 | 0.80 | 2.8 | 2.7 | 3.9 | 3.9 | 0.72 |
| F 20 3_172.6 | 172.6 | 0.04 | 0.81 | 0.80 | 2.8 | 2.7 | 3.9 | 3.9 | 0.72 |
| F 20 3_184.9 | 184.9 | 0.04 | 0.81 | 0.80 | 2.8 | 2.7 | 3.9 | 3.9 | 0.72 |
| F 20 3_209.3 | 209.3 | 0.03 | 0.81 | 0.79 | 2.8 | 2.7 | 3.9 | 3.9 | 0.72 |
| F 20 3_234.0 | 234.0 | 0.03 | 0.81 | 0.79 | 2.8 | 2.7 | 3.9 | 3.9 | 0.71 |
| F 20 3_255.3 | 255.3 | 0.03 | 0.80 | 0.79 | 2.8 | 2.7 | 3.9 | 3.9 | 0.71 |
| F 20 3_285.2 | 285.2 | 0.03 | 0.80 | 0.79 | 2.8 | 2.7 | 3.9 | 3.9 | 0.71 |
| F 20 3_316.9 | 316.9 | 0.03 | 0.80 | 0.79 | 2.8 | 2.7 | 3.9 | 3.9 | 0.71 |
| F 20 3_372.9 | 372.9 | 0.03 | 0.80 | 0.79 | 2.8 | 2.7 | 3.9 | 3.9 | 0.71 |
| F 20 3_419.3 | 419.3 | 0.03 | 0.80 | 0.79 | 2.8 | 2.7 | 3.9 | 3.9 | 0.66 |
| F 20 3_471.7 | 471.7 | 0.03 | 0.80 | 0.79 | 2.8 | 2.7 | 3.9 | 3.9 | 0.66 |
| F 20 3_545.3 | 545.3 | 0.03 | 0.80 | 0.79 | 2.8 | 2.7 | 3.9 | 3.9 | 0.66 |




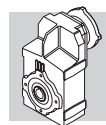
F 20

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|--------------|-------|---|------|------------|------|-----|-----|--------------------|-----|-------------|-----|
| | |  SERVO | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| F 20 2_6.4 | 6.4 | — | — | — | — | — | — | 5.0 | 5.5 | 4.8 | 5.8 |
| F 20 2_7.8 | 7.8 | — | — | — | — | — | — | 4.3 | 4.8 | 4.2 | 5.2 |
| F 20 2_8.7 | 8.7 | 1.6 | 1.8 | 1.6 | 2.0 | 4.1 | 4.6 | 4.1 | 4.6 | 3.9 | 4.9 |
| F 20 2_10.0 | 10.0 | 1.3 | 1.5 | 1.3 | 1.7 | 3.8 | 4.3 | 3.8 | 4.3 | 3.7 | 4.7 |
| F 20 2_11.2 | 11.2 | 1.2 | 1.4 | 1.2 | 1.6 | 3.7 | 4.1 | 3.6 | 4.1 | 3.5 | 4.5 |
| F 20 2_14.8 | 14.8 | — | — | — | — | — | — | 4.0 | 4.5 | 3.9 | 4.9 |
| F 20 2_18.1 | 18.1 | — | — | — | — | — | — | 3.7 | 4.2 | 3.5 | 4.5 |
| F 20 2_20.2 | 20.2 | 1.1 | 1.3 | 1.1 | 1.5 | 3.6 | 4.0 | 3.5 | 4.0 | 3.4 | 4.4 |
| F 20 2_23.1 | 23.1 | 0.91 | 1.2 | 0.93 | 1.4 | 3.5 | 3.9 | 3.4 | 3.9 | 3.3 | 4.3 |
| F 20 2_25.9 | 25.9 | 0.84 | 1.1 | 0.86 | 1.3 | 3.4 | 3.8 | 3.3 | 3.8 | 3.2 | 4.2 |
| F 20 2_30.4 | 30.4 | 0.68 | 0.94 | 0.70 | 1.1 | 3.2 | 3.7 | 3.2 | 3.7 | 3.0 | 4.0 |
| F 20 2_33.1 | 33.1 | 0.63 | 0.89 | 0.65 | 1.1 | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 |
| F 20 2_37.9 | 37.9 | 0.47 | 0.83 | 0.59 | 1.0 | 3.1 | 3.6 | 3.1 | 3.6 | 2.9 | 3.9 |
| F 20 2_41.8 | 41.8 | 0.44 | 0.80 | 0.56 | 1.0 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 |
| F 20 2_44.8 | 44.8 | 0.41 | 0.77 | 0.53 | 0.97 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 |
| F 20 2_50.7 | 50.7 | 0.48 | 0.74 | 0.50 | 0.94 | 3.0 | 3.5 | 3.0 | 3.5 | 2.8 | 3.8 |
| F 20 2_56.7 | 56.7 | 0.45 | 0.71 | 0.47 | 0.91 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 |
| F 20 2_61.9 | 61.9 | 0.43 | 0.69 | 0.45 | 0.89 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 |
| F 20 2_69.1 | 69.1 | 0.41 | 0.67 | 0.43 | 0.87 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 |
| F 20 2_76.8 | 76.8 | 0.39 | 0.65 | 0.41 | 0.85 | 2.9 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 |
| F 20 2_90.4 | 90.4 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 2.9 | 3.4 | 2.7 | 3.7 |
| F 20 2_101.6 | 101.6 | 0.36 | 0.62 | — | — | — | — | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 2_114.3 | 114.3 | 0.35 | 0.61 | — | — | — | — | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 2_132.2 | 132.2 | 0.30 | 0.56 | — | — | — | — | — | — | — | — |
| F 20 3_156.3 | 156.3 | 0.31 | 0.57 | 0.33 | 0.77 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_172.6 | 172.6 | 0.31 | 0.57 | 0.33 | 0.77 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_184.9 | 184.9 | 0.31 | 0.57 | 0.33 | 0.77 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_209.3 | 209.3 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_234.0 | 234.0 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_255.3 | 255.3 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_285.2 | 285.2 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_316.9 | 316.9 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_372.9 | 372.9 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_419.3 | 419.3 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_471.7 | 471.7 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 20 3_545.3 | 545.3 | 0.30 | 0.56 | 0.32 | 0.76 | 2.9 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |




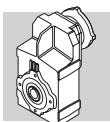
F 25

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | |
|--------------|-------|---|------|------|-----|-----|-----|-----|------|
| | |  | 63 | 71 | 80 | 90 | 100 | 112 | |
| F 25 2_6.9 | 6.9 | 2.7 | — | — | 5.4 | 5.3 | 6.5 | 6.5 | 4.4 |
| F 25 2_8.4 | 8.4 | 1.9 | — | — | 4.6 | 4.5 | 5.7 | 5.7 | 3.6 |
| F 25 2_9.4 | 9.4 | 1.6 | 2.3 | 2.3 | 4.3 | 4.2 | 5.4 | 5.4 | 3.3 |
| F 25 2_10.6 | 10.6 | 1.9 | — | — | 4.6 | 4.5 | 5.7 | 5.7 | 3.6 |
| F 25 2_13.0 | 13.0 | 1.3 | — | — | 4.1 | 4.0 | 5.2 | 5.2 | 3.0 |
| F 25 2_14.5 | 14.5 | 1.1 | 1.8 | 1.8 | 3.9 | 3.8 | 5.0 | 5.0 | 2.8 |
| F 25 2_16.6 | 16.6 | 0.90 | 1.6 | 1.6 | 3.7 | 3.5 | 4.7 | 4.7 | 2.6 |
| F 25 2_18.6 | 18.6 | 0.77 | 1.5 | 1.5 | 3.5 | 3.4 | 4.6 | 4.6 | 2.5 |
| F 25 2_21.8 | 21.8 | 0.57 | 1.3 | 1.3 | 3.3 | 3.2 | 4.4 | 4.4 | 2.3 |
| F 25 2_23.8 | 23.8 | 0.48 | 1.2 | 1.2 | 3.2 | 3.1 | 4.3 | 4.3 | 2.2 |
| F 25 2_27.2 | 27.2 | 0.40 | 1.1 | 1.1 | 3.2 | 3.0 | 4.2 | 4.2 | 2.1 |
| F 25 2_30.0 | 30.0 | 0.35 | 1.1 | 1.1 | 3.1 | 3.0 | 4.2 | 4.2 | 2.1 |
| F 25 2_32.2 | 32.2 | 0.31 | 1.0 | 1.0 | 3.1 | 2.9 | 4.2 | 4.2 | 2.0 |
| F 25 2_36.4 | 36.4 | 0.26 | 1.0 | 1.0 | 3.0 | 2.9 | 4.1 | 4.1 | 2.0 |
| F 25 2_40.7 | 40.7 | 0.22 | 1.0 | 0.94 | 3.0 | 2.9 | 4.1 | 4.1 | 1.9 |
| F 25 2_44.4 | 44.4 | 0.20 | 0.93 | 0.92 | 3.0 | 2.8 | 4.0 | 4.0 | 1.9 |
| F 25 3_45.6 | 45.6 | 0.79 | — | — | 3.6 | 3.4 | 4.6 | 4.6 | 2.5 |
| F 25 3_50.8 | 50.8 | 0.70 | 1.4 | 1.4 | 3.5 | 3.3 | 4.5 | 4.5 | 2.4 |
| F 25 3_58.3 | 58.3 | 0.58 | 1.3 | 1.3 | 3.3 | 3.2 | 4.4 | 4.4 | 2.3 |
| F 25 3_65.3 | 65.3 | 0.52 | 1.2 | 1.2 | 3.3 | 3.1 | 4.4 | 4.4 | 2.2 |
| F 25 3_76.6 | 76.6 | 0.38 | 1.1 | 1.1 | 3.1 | 3.0 | 4.2 | 4.2 | 2.1 |
| F 25 3_83.4 | 83.4 | 0.32 | 1.0 | 1.0 | 3.1 | 3.0 | 4.2 | 4.2 | 2.0 |
| F 25 3_95.5 | 95.5 | 0.28 | 1.0 | 1.0 | 3.0 | 2.9 | 4.1 | 4.1 | 2.0 |
| F 25 3_105.4 | 105.4 | 0.25 | 1.0 | 1.0 | 3.0 | 2.9 | 4.1 | 4.1 | 2.0 |
| F 25 3_113.0 | 113.0 | 0.23 | 0.95 | 0.94 | 3.0 | 2.9 | 4.1 | 4.1 | 1.9 |
| F 25 3_127.8 | 127.8 | 0.20 | 0.92 | 0.91 | 3.0 | 2.8 | 4.0 | 4.0 | 1.9 |
| F 25 3_143.0 | 143.0 | 0.17 | 0.90 | 0.89 | 2.9 | 2.8 | 4.0 | 4.0 | 1.9 |
| F 25 3_155.9 | 155.9 | 0.15 | 0.88 | 0.87 | 2.9 | 2.8 | 4.0 | 4.0 | 1.9 |
| F 25 3_174.2 | 174.2 | 0.13 | 0.87 | 0.86 | 2.9 | 2.8 | 4.0 | 4.0 | 1.8 |
| F 25 3_193.6 | 193.6 | 0.12 | 0.85 | 0.84 | 2.9 | 2.7 | 4.0 | 4.0 | 1.8 |
| F 25 3_227.8 | 227.8 | 0.10 | 0.83 | 0.82 | 2.9 | 2.7 | 3.9 | 3.9 | 1.8 |
| F 25 3_256.1 | 256.1 | 0.09 | 0.79 | 0.78 | 2.8 | 2.7 | 3.9 | 3.9 | 1.8 |
| F 25 3_288.1 | 288.1 | 0.08 | 0.78 | 0.77 | 2.8 | 2.7 | 3.9 | 3.9 | 1.8 |
| F 25 3_333.1 | 333.1 | 0.03 | 0.78 | 0.76 | — | — | — | — | 1.8 |
| F 25 4_393.9 | 393.9 | 0.02 | 0.80 | 0.78 | 2.8 | 2.7 | 3.9 | 3.9 | 0.70 |
| F 25 4_434.9 | 434.9 | 0.02 | 0.79 | 0.78 | 2.8 | 2.7 | 3.9 | 3.9 | 0.70 |
| F 25 4_466.0 | 466.0 | 0.02 | 0.79 | 0.78 | 2.8 | 2.7 | 3.9 | 3.9 | 0.70 |
| F 25 4_527.3 | 527.3 | 0.02 | 0.79 | 0.78 | 2.8 | 2.7 | 3.9 | 3.9 | 0.70 |
| F 25 4_589.7 | 589.7 | 0.02 | 0.79 | 0.78 | 2.8 | 2.7 | 3.9 | 3.9 | 0.70 |
| F 25 4_643.3 | 643.3 | 0.02 | 0.79 | 0.78 | 2.8 | 2.7 | 3.9 | 3.9 | 0.70 |
| F 25 4_718.7 | 718.7 | 0.02 | 0.79 | 0.78 | 2.8 | 2.7 | 3.9 | 3.9 | 0.70 |
| F 25 4_798.5 | 798.5 | 0.01 | 0.79 | 0.77 | 2.8 | 2.7 | 3.9 | 3.9 | 0.70 |
| F 25 4_939.8 | 939.8 | 0.01 | 0.79 | 0.77 | 2.8 | 2.7 | 3.9 | 3.9 | 0.69 |
| F 25 4_1057 | 1057 | 0.01 | 0.79 | 0.77 | 2.8 | 2.7 | 3.9 | 3.9 | 0.64 |
| F 25 4_1189 | 1189 | 0.01 | 0.78 | 0.77 | 2.8 | 2.7 | 3.9 | 3.9 | 0.64 |
| F 25 4_1374 | 1374 | 0.01 | 0.78 | 0.77 | 2.8 | 2.7 | 3.9 | 3.9 | 0.64 |





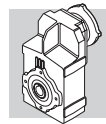
F 25

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|--------------|-------|---|------|------------|------|-----|-----|--------------------|-----|-------------|-----|
| | |  SERVO | | | | | | | | | |
| | i | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| F 25 2_6.9 | 6.9 | — | — | — | — | — | — | 5.4 | 5.9 | 5.3 | 6.3 |
| F 25 2_8.4 | 8.4 | — | — | — | — | — | — | 4.6 | 5.1 | 4.5 | 5.5 |
| F 25 2_9.4 | 9.4 | 1.9 | 2.1 | 1.9 | 2.3 | 4.4 | 4.9 | 4.3 | 4.8 | 4.2 | 5.2 |
| F 25 2_10.6 | 10.6 | — | — | — | — | — | — | 4.6 | 5.1 | 4.5 | 5.5 |
| F 25 2_13.0 | 13.0 | — | — | — | — | — | — | 4.1 | 4.6 | 4.0 | 5.0 |
| F 25 2_14.5 | 14.5 | 1.4 | 1.6 | 1.4 | 1.8 | 3.9 | 4.4 | 3.9 | 4.4 | 3.8 | 4.8 |
| F 25 2_16.6 | 16.6 | 1.2 | 1.4 | 1.2 | 1.6 | 3.7 | 4.2 | 3.7 | 4.2 | 3.5 | 4.5 |
| F 25 2_18.6 | 18.6 | 1.0 | 1.3 | 1.1 | 1.5 | 3.6 | 4.0 | 3.5 | 4.0 | 3.4 | 4.4 |
| F 25 2_21.8 | 21.8 | 0.84 | 1.1 | 0.86 | 1.3 | 3.4 | 3.8 | 3.3 | 3.8 | 3.2 | 4.2 |
| F 25 2_23.8 | 23.8 | 0.75 | 1.0 | 0.77 | 1.2 | 3.3 | 3.7 | 3.2 | 3.7 | 3.1 | 4.1 |
| F 25 2_27.2 | 27.2 | 0.67 | 0.93 | 0.69 | 1.1 | 3.2 | 3.7 | 3.2 | 3.7 | 3.0 | 4.0 |
| F 25 2_30.0 | 30.0 | 0.62 | 0.88 | 0.64 | 1.1 | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 |
| F 25 2_32.2 | 32.2 | 0.58 | 0.84 | 1.4 | 1.8 | 3.1 | 3.6 | 3.1 | 3.6 | 2.9 | 3.9 |
| F 25 2_36.4 | 36.4 | 0.53 | 0.79 | 0.55 | 0.99 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 |
| F 25 2_40.7 | 40.7 | 0.49 | 0.75 | 0.51 | 0.95 | 3.0 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 |
| F 25 2_44.4 | 44.4 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.0 | 3.5 | 2.8 | 3.8 |
| F 25 3_45.6 | 45.6 | 1.1 | 1.3 | 1.1 | 1.5 | 3.6 | 4.0 | 3.6 | 4.1 | 3.4 | 4.4 |
| F 25 3_50.8 | 50.8 | 0.97 | 1.2 | 0.99 | 1.4 | 3.5 | 4.0 | 3.5 | 4.0 | 3.3 | 4.3 |
| F 25 3_58.3 | 58.3 | 0.85 | 1.1 | 0.87 | 1.3 | 3.4 | 3.8 | 3.3 | 3.8 | 3.2 | 4.2 |
| F 25 3_65.3 | 65.3 | 0.79 | 1.1 | 0.84 | 1.2 | 3.3 | 3.8 | 3.3 | 3.8 | 3.1 | 4.1 |
| F 25 3_76.6 | 76.6 | 0.65 | 0.91 | 0.67 | 1.1 | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 |
| F 25 3_83.4 | 83.4 | 0.59 | 0.85 | 0.61 | 1.0 | 3.1 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 |
| F 25 3_95.5 | 95.5 | 0.55 | 0.81 | 0.57 | 1.0 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 |
| F 25 3_105.4 | 105.4 | 0.52 | 0.78 | 0.54 | 0.98 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 |
| F 25 3_113.0 | 113.0 | 0.50 | 0.76 | 0.52 | 0.96 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 |
| F 25 3_127.8 | 127.8 | 0.47 | 0.73 | 0.49 | 0.93 | 3.0 | 3.5 | 3.0 | 3.5 | 2.8 | 3.8 |
| F 25 3_143.0 | 143.0 | 0.44 | 0.70 | 0.46 | 0.90 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 |
| F 25 3_155.9 | 155.9 | 0.42 | 0.68 | 0.44 | 0.88 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 |
| F 25 3_174.2 | 174.2 | 0.40 | 0.66 | 0.42 | 0.86 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 |
| F 25 3_193.6 | 193.6 | 0.39 | 0.65 | 0.41 | 0.85 | 2.9 | 3.4 | 2.9 | 3.4 | 2.7 | 3.7 |
| F 25 3_227.8 | 227.8 | 0.37 | 0.63 | 0.39 | 0.83 | 2.9 | 3.4 | 2.9 | 3.4 | 2.7 | 3.7 |
| F 25 3_256.1 | 256.1 | 0.36 | 0.62 | — | — | — | — | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 3_288.1 | 288.1 | 0.35 | 0.61 | — | — | — | — | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 3_333.1 | 333.1 | 0.30 | 0.56 | — | — | — | — | — | — | — | — |
| F 25 4_393.9 | 393.9 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_434.9 | 434.9 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_466.0 | 466.0 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_527.3 | 527.3 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_589.7 | 589.7 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_643.3 | 643.3 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_718.7 | 718.7 | 0.29 | 0.55 | 0.31 | 0.75 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_798.5 | 798.5 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_939.8 | 939.8 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_1057 | 1057 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_1189 | 1189 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |
| F 25 4_1374 | 1374 | 0.28 | 0.54 | 0.30 | 0.74 | 2.8 | 3.3 | 2.8 | 3.3 | 2.7 | 3.7 |




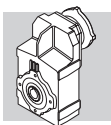
F 31

| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | | |
|--------------|-------|---|------|------|-----|--|-----|-----|-----|------|
| | |  | 63 | 71 | 80 | 90  | 100 | 112 | 132 | |
| F 31 2_6.9 | 6.9 | 5.0 | — | — | 7.8 | 7.6 | 8.9 | 8.9 | 22 | 7.1 |
| F 31 2_8.2 | 8.2 | 3.7 | — | — | 6.5 | 6.3 | 7.5 | 7.5 | 20 | 5.8 |
| F 31 2_9.0 | 9.0 | 3.2 | — | — | 6.0 | 5.8 | 7.0 | 7.0 | 20 | 5.3 |
| F 31 2_10.7 | 10.7 | 3.5 | — | — | 6.3 | 6.2 | 7.4 | 7.4 | 20 | 5.6 |
| F 31 2_12.7 | 12.7 | 2.6 | — | — | 5.4 | 5.3 | 6.5 | 6.5 | 19 | 4.7 |
| F 31 2_13.9 | 13.9 | 2.3 | — | — | 5.1 | 4.9 | 6.2 | 6.2 | 19 | 4.4 |
| F 31 2_16.8 | 16.8 | 1.8 | — | — | 4.6 | 4.4 | 5.6 | 5.6 | 18 | 3.9 |
| F 31 2_18.5 | 18.5 | 1.5 | 2.2 | 2.2 | 4.2 | 4.1 | 5.3 | 5.3 | 18 | 3.5 |
| F 31 2_21.1 | 21.1 | 1.1 | 1.8 | 1.8 | 3.9 | 3.7 | 5.0 | 5.0 | 18 | 3.2 |
| F 31 2_23.4 | 23.4 | 1.0 | 1.7 | 1.7 | 3.7 | 3.6 | 4.8 | 4.8 | 18 | 3.0 |
| F 31 2_27.3 | 27.3 | 0.78 | 1.5 | 1.5 | 3.5 | 3.4 | 4.6 | 4.6 | 17 | 2.8 |
| F 31 2_30.1 | 30.1 | 0.65 | 1.4 | 1.4 | 3.4 | 3.3 | 4.5 | 4.5 | 17 | 2.7 |
| F 31 2_34.4 | 34.4 | 0.53 | 1.3 | 1.2 | 3.3 | 3.2 | 4.4 | 4.4 | 17 | 2.6 |
| F 31 2_37.7 | 37.7 | 0.47 | 1.2 | 1.2 | 3.2 | 3.1 | 4.3 | 4.3 | 17 | 2.5 |
| F 31 2_40.4 | 40.4 | 0.42 | 1.1 | 1.1 | 3.2 | 3.0 | 4.3 | 4.3 | — | 2.5 |
| F 31 2_44.6 | 44.6 | 0.37 | 1.1 | 1.1 | 3.1 | 3.0 | 4.2 | 4.2 | — | 2.4 |
| F 31 3_47.5 | 47.5 | 1.6 | — | — | 4.3 | 4.2 | 5.4 | 5.4 | 18 | 3.6 |
| F 31 3_52.1 | 52.1 | 1.4 | — | — | 4.2 | 4.0 | 5.3 | 5.3 | 18 | 3.5 |
| F 31 3_62.8 | 62.8 | 1.2 | — | — | 3.9 | 3.8 | 5.0 | 5.0 | 18 | 3.2 |
| F 31 3_69.1 | 69.1 | 1.0 | 1.7 | 1.7 | 3.7 | 3.6 | 4.8 | 4.8 | 18 | 3.0 |
| F 31 3_78.9 | 78.9 | 0.72 | 1.4 | 1.4 | 3.5 | 3.4 | 4.6 | 4.6 | 17 | 2.8 |
| F 31 3_87.4 | 87.4 | 0.66 | 1.4 | 1.4 | 3.4 | 3.3 | 4.5 | 4.5 | 17 | 2.7 |
| F 31 3_101.9 | 101.9 | 0.54 | 1.3 | 1.2 | 3.3 | 3.2 | 4.4 | 4.4 | 17 | 2.6 |
| F 31 3_112.5 | 112.5 | 0.46 | 1.2 | 1.2 | 3.2 | 3.1 | 4.3 | 4.3 | 17 | 2.5 |
| F 31 3_128.4 | 128.4 | 0.38 | 1.1 | 1.1 | 3.1 | 3.0 | 4.2 | 4.2 | 17 | 2.4 |
| F 31 3_140.7 | 140.7 | 0.35 | 1.1 | 1.1 | 3.1 | 3.0 | 4.2 | 4.2 | 17 | 2.4 |
| F 31 3_150.8 | 150.8 | 0.31 | 1.0 | 1.0 | 3.1 | 2.9 | 4.2 | 4.2 | — | 2.4 |
| F 31 3_166.8 | 166.8 | 0.28 | 1.0 | 1.0 | 3.0 | 2.9 | 4.1 | 4.1 | — | 2.3 |
| F 31 3_185.4 | 185.4 | 0.24 | 1.0 | 1.0 | 3.0 | 2.9 | 4.1 | 4.1 | — | 2.3 |
| F 31 3_202.3 | 202.3 | 0.21 | 0.94 | 0.93 | 3.0 | 2.8 | 4.1 | 4.1 | — | 2.3 |
| F 31 3_228.2 | 228.2 | 0.18 | 0.92 | 0.90 | 2.9 | 2.8 | 4.0 | 4.0 | — | 2.2 |
| F 31 3_253.6 | 253.6 | 0.16 | 0.89 | 0.88 | 2.9 | 2.8 | 4.0 | 4.0 | — | 2.2 |
| F 31 3_293.8 | 293.8 | 0.13 | 0.86 | 0.85 | 2.9 | 2.8 | 4.0 | 4.0 | — | 2.2 |
| F 31 3_332.8 | 332.8 | 0.11 | 0.82 | 0.81 | 2.9 | 2.7 | 4.0 | 4.0 | — | 2.2 |
| F 31 3_374.4 | 374.4 | 0.10 | 0.81 | 0.79 | 2.9 | 2.7 | 3.9 | 3.9 | — | 2.2 |
| F 31 4_418.9 | 418.9 | 0.09 | 0.86 | 0.85 | 2.9 | 2.8 | 3.9 | 3.9 | — | 0.77 |
| F 31 4_462.6 | 462.6 | 0.08 | 0.86 | 0.84 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.77 |
| F 31 4_527.8 | 527.8 | 0.08 | 0.85 | 0.84 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.76 |
| F 31 4_578.6 | 578.6 | 0.08 | 0.85 | 0.84 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.76 |
| F 31 4_619.9 | 619.9 | 0.07 | 0.85 | 0.83 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.76 |
| F 31 4_685.6 | 685.6 | 0.07 | 0.85 | 0.83 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.76 |
| F 31 4_762.3 | 762.3 | 0.07 | 0.84 | 0.83 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.75 |
| F 31 4_831.6 | 831.6 | 0.07 | 0.84 | 0.83 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.75 |
| F 31 4_938.2 | 938.2 | 0.07 | 0.84 | 0.83 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.75 |
| F 31 4_1042 | 1042 | 0.07 | 0.84 | 0.83 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.75 |
| F 31 4_1208 | 1208 | 0.06 | 0.84 | 0.82 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.75 |
| F 31 4_1368 | 1368 | 0.06 | 0.84 | 0.82 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.75 |
| F 31 4_1539 | 1539 | 0.06 | 0.84 | 0.82 | 2.9 | 2.7 | 3.9 | 3.9 | — | 0.75 |





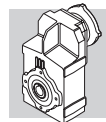
F 31

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | |
|--------------|-------|---|------|------------|------|-----|-----|--------------------|-----|-------------|-----|------|-----|
| | |  | | | | | | | | | | | |
| i | | 60A | | 60B 80A | | 95A | | 80C 95B 110A | | 95C 110B | | 130A | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| F 31 2_6.9 | 6.9 | — | — | — | — | — | — | 7.8 | 8.3 | 7.6 | 8.6 | 7.6 | 8.6 |
| F 31 2_8.2 | 8.2 | — | — | — | — | — | — | 6.5 | 7.0 | 6.3 | 7.3 | 6.3 | 7.3 |
| F 31 2_9.0 | 9.0 | — | — | — | — | — | — | 6.0 | 6.5 | 5.8 | 6.8 | 5.8 | 6.8 |
| F 31 2_10.7 | 10.7 | — | — | — | — | — | — | 6.3 | 6.8 | 6.2 | 7.2 | 6.2 | 7.2 |
| F 31 2_12.7 | 12.7 | — | — | — | — | — | — | 5.4 | 5.9 | 5.3 | 6.3 | 5.3 | 6.3 |
| F 31 2_13.9 | 13.9 | — | — | — | — | — | — | 5.1 | 5.6 | 4.9 | 5.9 | 4.9 | 5.9 |
| F 31 2_16.8 | 16.8 | — | — | — | — | — | — | 4.6 | 5.1 | 4.4 | 5.4 | 4.4 | 5.4 |
| F 31 2_18.5 | 18.5 | 1.8 | 2.0 | 1.8 | 2.2 | 4.3 | 4.8 | 4.2 | 4.7 | 4.1 | 5.1 | 4.1 | 5.1 |
| F 31 2_21.1 | 21.1 | 1.4 | 1.6 | 1.4 | 1.8 | 3.9 | 4.3 | 3.9 | 4.4 | 3.7 | 4.7 | 3.7 | 4.7 |
| F 31 2_23.4 | 23.4 | 1.3 | 1.5 | 1.3 | 1.7 | 3.8 | 4.3 | 3.7 | 4.2 | 3.6 | 4.6 | 3.6 | 4.6 |
| F 31 2_27.3 | 27.3 | 1.1 | 1.3 | 1.1 | 1.5 | 3.6 | 4.0 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 |
| F 31 2_30.1 | 30.1 | 0.92 | 1.2 | 0.94 | 1.4 | 3.5 | 3.9 | 3.4 | 3.9 | 3.3 | 4.3 | 3.3 | 4.3 |
| F 31 2_34.4 | 34.4 | 0.80 | 1.1 | 0.82 | 1.3 | 3.4 | 3.8 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 |
| F 31 2_37.7 | 37.7 | 0.74 | 1.0 | 0.76 | 1.2 | 3.3 | 3.7 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 |
| F 31 2_40.4 | 40.4 | 0.69 | 0.95 | 0.71 | 1.1 | 3.2 | 3.7 | 3.2 | 3.7 | 3.0 | 4.0 | 3.0 | 4.0 |
| F 31 2_44.6 | 44.6 | 0.64 | 0.90 | 0.66 | 1.1 | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| F 31 3_47.5 | 47.5 | — | — | — | — | — | — | 4.3 | 4.8 | 4.2 | 5.2 | 4.2 | 5.2 |
| F 31 3_52.1 | 52.1 | — | — | — | — | — | — | 4.2 | 4.7 | 4.0 | 5.0 | 4.0 | 5.0 |
| F 31 3_62.8 | 62.8 | — | — | — | — | — | — | 3.9 | 4.4 | 3.8 | 4.8 | 3.8 | 4.8 |
| F 31 3_69.1 | 69.1 | 1.3 | 1.5 | 1.3 | 1.7 | 3.8 | 4.3 | 3.7 | 4.2 | 3.6 | 4.6 | 3.6 | 4.6 |
| F 31 3_78.9 | 78.9 | 0.99 | 1.3 | 1.0 | 1.4 | 3.5 | 4.0 | 3.5 | 4.0 | 3.4 | 4.4 | 3.4 | 4.4 |
| F 31 3_87.4 | 87.4 | 0.93 | 1.2 | 0.95 | 1.4 | 3.5 | 3.9 | 3.4 | 3.9 | 3.3 | 4.3 | 3.3 | 4.3 |
| F 31 3_101.9 | 101.9 | 0.81 | 1.1 | 0.83 | 1.3 | 3.4 | 3.8 | 3.3 | 3.8 | 3.2 | 4.2 | 3.2 | 4.2 |
| F 31 3_112.5 | 112.5 | 0.73 | 0.99 | 0.75 | 1.2 | 3.3 | 3.7 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 |
| F 31 3_128.4 | 128.4 | 0.65 | 0.91 | 0.67 | 1.1 | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| F 31 3_140.7 | 140.7 | 0.62 | 0.88 | 0.64 | 1.1 | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 |
| F 31 3_150.8 | 150.8 | 0.58 | 0.84 | 0.60 | 1.0 | 3.1 | 3.6 | 3.1 | 3.6 | 2.9 | 3.9 | 2.9 | 3.9 |
| F 31 3_166.8 | 166.8 | 0.55 | 0.81 | 0.57 | 1.0 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| F 31 3_185.4 | 185.4 | 0.51 | 0.77 | 0.53 | 0.97 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 |
| F 31 3_202.3 | 202.3 | 0.48 | 0.74 | 0.50 | 0.93 | 3.0 | 3.5 | 3.0 | 3.5 | 2.8 | 3.8 | 2.8 | 3.8 |
| F 31 3_228.2 | 228.2 | 0.45 | 0.71 | 0.47 | 0.91 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | 2.8 | 3.8 |
| F 31 3_253.6 | 253.6 | 0.43 | 0.69 | 0.45 | 0.89 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | 2.8 | 3.8 |
| F 31 3_293.8 | 293.8 | 0.40 | 0.66 | 0.42 | 0.86 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | 2.8 | 3.8 |
| F 31 3_332.8 | 332.8 | 0.38 | 0.64 | — | — | — | — | 2.9 | 3.4 | 2.7 | 3.7 | 2.7 | 3.7 |
| F 31 3_374.4 | 374.4 | 0.37 | 0.63 | — | — | — | — | 2.9 | 3.4 | 2.7 | 3.7 | 2.7 | 3.7 |
| F 31 4_418.9 | 418.9 | 0.36 | 0.62 | 0.38 | 0.82 | 2.9 | 3.3 | 2.9 | 3.4 | 2.8 | 3.8 | — | — |
| F 31 4_462.6 | 462.6 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_527.8 | 527.8 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_578.6 | 578.6 | 0.35 | 0.61 | 0.37 | 0.81 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_619.9 | 619.9 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_685.6 | 685.6 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_762.3 | 762.3 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_831.6 | 831.6 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_938.2 | 938.2 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_1042 | 1042 | 0.34 | 0.60 | 0.36 | 0.80 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_1208 | 1208 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_1368 | 1368 | 0.33 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |
| F 31 4_1539 | 1539 | 0.83 | 0.59 | 0.35 | 0.79 | 2.9 | 3.3 | 2.9 | 3.4 | 2.7 | 3.7 | — | — |




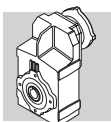
F 41

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | |
|--------------|-------|---|------|------|-----|--|-----|-----|-----|-----|
| | |  | 63 | 71 | 80 | 90  | 100 | 112 | 132 | |
| F 41 2_6.7 | 6.7 | 12 | — | — | 15 | 15 | 18 | 18 | 29 | 21 |
| F 41 2_9.1 | 9.1 | 7.2 | — | — | 10 | 9.8 | 13 | 13 | 24 | 16 |
| F 41 2_10.8 | 10.8 | 8.0 | — | — | 11 | 11 | 13 | 13 | 25 | 17 |
| F 41 2_14.6 | 14.6 | 5.0 | — | — | 7.7 | 7.6 | 10 | 10 | 21 | 14 |
| F 41 2_17.1 | 17.1 | 3.5 | — | — | 6.3 | 6.2 | 8.9 | 8.9 | 20 | 12 |
| F 41 2_18.9 | 18.9 | 3.1 | — | — | 5.8 | 5.7 | 8.5 | 8.5 | 20 | 12 |
| F 41 2_24.1 | 24.1 | 2.1 | 2.8 | 2.8 | 4.9 | 4.8 | 7.5 | 7.5 | 19 | 11 |
| F 41 2_30.1 | 30.1 | 1.5 | 2.2 | 2.2 | 4.3 | 4.2 | 6.9 | 6.9 | 18 | 10 |
| F 41 2_38.2 | 38.2 | 0.95 | 1.7 | 1.7 | 3.7 | 3.6 | 6.3 | 6.3 | 17 | 9.7 |
| F 41 2_47.9 | 47.9 | 0.67 | 1.4 | 1.4 | 3.4 | 3.3 | 6.0 | 6.0 | 17 | 9.5 |
| F 41 3_51.5 | 51.5 | 3.0 | — | — | 5.7 | 5.6 | 8.4 | 8.4 | 19 | 12 |
| F 41 3_60.2 | 60.2 | 2.1 | — | — | 4.9 | 4.7 | 7.5 | 7.5 | 19 | 11 |
| F 41 3_66.5 | 66.5 | 1.9 | — | — | 4.7 | 4.5 | 7.3 | 7.3 | 18 | 11 |
| F 41 3_84.9 | 84.9 | 1.4 | 2.1 | 2.1 | 4.2 | 4.0 | 6.8 | 6.8 | 18 | 10 |
| F 41 3_106.0 | 106.0 | 1.1 | 1.8 | 1.7 | 3.8 | 3.7 | 6.4 | 6.4 | 18 | 9.8 |
| F 41 3_134.4 | 134.4 | 0.66 | 1.4 | 1.4 | 3.4 | 3.3 | 6.0 | 6.0 | 17 | 9.4 |
| F 41 3_168.7 | 168.7 | 0.49 | 1.2 | 1.2 | 3.2 | 3.1 | 5.9 | 5.9 | 17 | 9.3 |
| F 41 3_180.7 | 180.7 | 0.43 | 1.1 | 1.1 | 3.2 | 3.1 | 5.8 | 5.8 | — | 9.2 |
| F 41 3_198.9 | 198.9 | 0.39 | 1.1 | 1.1 | 3.1 | 3.0 | 5.8 | 5.8 | — | 9.2 |
| F 41 3_220.1 | 220.1 | 0.36 | 1.1 | 1.1 | 3.1 | 3.0 | 5.7 | 5.7 | — | 9.1 |
| F 41 3_240.1 | 240.1 | 0.31 | 1.0 | 1.0 | 3.1 | 2.9 | 5.7 | 5.7 | — | 9.1 |
| F 41 3_266.9 | 266.9 | 0.28 | 1.0 | 1.0 | 3.0 | 2.9 | 5.7 | 5.7 | — | 9.1 |
| F 41 3_296.6 | 296.6 | 0.23 | 1.0 | 1.0 | 3.0 | 2.9 | 5.6 | 5.6 | — | 9.0 |
| F 41 3_344.8 | 344.8 | 0.19 | 0.92 | 0.91 | 2.9 | 2.8 | 5.6 | 5.6 | — | 9.0 |
| F 41 4_433.7 | 433.7 | 0.21 | 0.94 | 0.93 | 3.0 | 2.8 | 4.1 | 4.1 | — | 1.9 |
| F 41 4_549.8 | 549.8 | 0.19 | 0.92 | 0.90 | 2.9 | 2.8 | 4.0 | 4.0 | — | 1.9 |
| F 41 4_690.1 | 690.1 | 0.18 | 0.91 | 0.89 | 2.9 | 2.8 | 4.0 | 4.0 | — | 1.9 |
| F 41 4_739.4 | 739.4 | 0.17 | 0.90 | 0.89 | 2.9 | 2.8 | 4.0 | 4.0 | — | 1.9 |
| F 41 4_813.8 | 813.8 | 0.17 | 0.90 | 0.89 | 2.9 | 2.8 | 4.0 | 4.0 | — | 1.9 |
| F 41 4_900.5 | 900.5 | 0.17 | 0.90 | 0.89 | 2.9 | 2.8 | 4.0 | 4.0 | — | 1.9 |
| F 41 4_982.4 | 982.4 | 0.17 | 0.90 | 0.88 | 2.9 | 2.8 | 4.0 | 4.0 | — | 1.9 |
| F 41 4_1092 | 1092 | 0.16 | 0.89 | 0.88 | 2.9 | 2.8 | 4.0 | 4.0 | — | 1.9 |
| F 41 4_1213 | 1213 | 0.16 | 0.89 | 0.88 | 2.9 | 2.8 | 4.0 | 4.0 | — | 1.9 |
| F 41 4_1411 | 1411 | 0.16 | 0.89 | 0.88 | 2.9 | 2.8 | 4.0 | 4.0 | — | 1.9 |






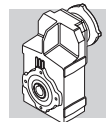
F 41

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | | | | | | | |
|--------------|-------|---|------|------------|------|-----|-----|-----|-----|--------------------|-----|-------------|-----|------|-----|--------------|----|------|----|
| | |  SERVO | | | | | | | | | | | | | | | | | |
| | i | 60A | | 60B 80A | | 80B | | 95A | | 80C 95B 110A | | 95C 110B | | 130A | | 130B 180A | | 180B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| | | | | | | | | | | | | | | | | | | | |
| F 41 2_6.7 | 6.7 | — | — | — | — | — | — | — | — | 15 | 16 | 15 | 16 | 15 | 16 | 29 | 31 | 29 | 34 |
| F 41 2_9.1 | 9.1 | — | — | — | — | — | — | — | — | 10 | 11 | 9.8 | 11 | 9.8 | 11 | 24 | 27 | 24 | 29 |
| F 41 2_10.8 | 10.8 | — | — | — | — | — | — | — | — | 11 | 12 | 11 | 12 | 11 | 12 | 25 | 27 | 25 | 30 |
| F 41 2_14.6 | 14.6 | — | — | — | — | — | — | — | — | 7.7 | 8.2 | 7.6 | 8.6 | 7.6 | 8.6 | 22 | 24 | 21 | 26 |
| F 41 2_17.1 | 17.1 | — | — | — | — | — | — | — | — | 6.3 | 6.8 | 6.2 | 7.2 | 6.2 | 7.2 | 20 | 23 | 20 | 25 |
| F 41 2_18.9 | 18.9 | — | — | — | — | — | — | — | — | 5.8 | 6.3 | 5.7 | 6.7 | 5.7 | 6.7 | 20 | 23 | 20 | 25 |
| F 41 2_24.1 | 24.1 | — | — | — | — | 4.9 | 5.4 | 4.9 | 5.4 | 4.9 | 5.4 | 4.8 | 5.8 | 4.8 | 5.8 | 19 | 22 | 19 | 24 |
| F 41 2_30.1 | 30.1 | — | — | — | — | 4.3 | 4.8 | 4.3 | 4.8 | 4.3 | 4.8 | 4.2 | 5.2 | 4.2 | 5.2 | 18 | 21 | 18 | 23 |
| F 41 2_38.2 | 38.2 | — | — | — | — | 3.8 | 4.2 | 3.8 | 4.2 | 3.7 | 4.2 | 3.6 | 4.6 | 3.6 | 4.6 | 18 | 20 | 17 | 22 |
| F 41 2_47.9 | 47.9 | — | — | — | — | 3.5 | 3.9 | 3.5 | 3.9 | 3.4 | 3.9 | 3.3 | 4.3 | 3.3 | 4.3 | 18 | 20 | 17 | 22 |
| F 41 3_51.5 | 51.5 | — | — | — | — | — | — | — | — | 5.7 | 6.2 | 5.6 | 6.6 | 5.6 | 6.6 | 20 | 22 | 19 | 24 |
| F 41 3_60.2 | 60.2 | — | — | — | — | — | — | — | — | 4.9 | 5.4 | 4.7 | 5.7 | 4.7 | 5.7 | 19 | 22 | 19 | 24 |
| F 41 3_66.5 | 66.5 | — | — | — | — | — | — | — | — | 4.7 | 5.2 | 4.5 | 5.5 | 4.5 | 5.5 | 19 | 21 | 18 | 23 |
| F 41 3_84.9 | 84.9 | — | — | — | — | 4.2 | 4.7 | 4.2 | 4.7 | 4.2 | 4.7 | 4.0 | 5.0 | 4.0 | 5.0 | 18 | 21 | 18 | 23 |
| F 41 3_106.0 | 106.0 | — | — | — | — | 3.9 | 4.4 | 3.9 | 4.4 | 3.8 | 4.3 | 3.7 | 4.7 | 3.7 | 4.7 | 18 | 21 | 18 | 23 |
| F 41 3_134.4 | 134.4 | — | — | — | — | 3.5 | 3.9 | 3.5 | 3.9 | 3.4 | 3.9 | 3.3 | 4.3 | 3.3 | 4.3 | 18 | 20 | 17 | 22 |
| F 41 3_168.7 | 168.7 | — | — | — | — | 3.3 | 3.7 | 3.3 | 3.7 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 | 17 | 20 | 17 | 22 |
| F 41 3_180.7 | 180.7 | — | — | — | — | 3.3 | 3.7 | 3.3 | 3.7 | 3.2 | 3.7 | 3.1 | 4.1 | 3.1 | 4.1 | — | — | — | — |
| F 41 3_198.9 | 198.9 | — | — | — | — | 3.2 | 3.6 | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 | — | — | — | — |
| F 41 3_220.1 | 220.1 | — | — | — | — | 3.2 | 3.6 | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 | 3.0 | 4.0 | — | — | — | — |
| F 41 3_240.1 | 240.1 | — | — | — | — | 3.1 | 3.6 | 3.1 | 3.6 | 3.1 | 3.6 | 2.9 | 3.9 | 2.9 | 3.9 | — | — | — | — |
| F 41 3_266.9 | 266.9 | — | — | — | — | 3.1 | 3.5 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 | — | — | — | — |
| F 41 3_296.6 | 296.6 | — | — | — | — | 3.1 | 3.5 | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | 2.9 | 3.9 | — | — | — | — |
| F 41 3_344.8 | 344.8 | — | — | — | — | 3.0 | 3.4 | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | 2.8 | 3.8 | — | — | — | — |
| F 41 4_433.7 | 433.7 | 0.48 | 0.74 | 0.50 | 0.94 | — | — | 3.0 | 3.5 | 3.0 | 3.5 | 2.8 | 3.8 | — | — | — | — | — | — |
| F 41 4_549.8 | 549.8 | 0.46 | 0.72 | 0.48 | 0.92 | — | — | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — | — | — | — | — |
| F 41 4_690.1 | 690.1 | 0.45 | 0.71 | 0.47 | 0.91 | — | — | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — | — | — | — | — |
| F 41 4_739.4 | 739.4 | 0.44 | 0.70 | 0.46 | 0.90 | — | — | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — | — | — | — | — |
| F 41 4_813.8 | 813.8 | 0.44 | 0.70 | 0.46 | 0.90 | — | — | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — | — | — | — | — |
| F 41 4_900.5 | 900.5 | 0.44 | 0.70 | 0.46 | 0.90 | — | — | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — | — | — | — | — |
| F 41 4_982.4 | 982.4 | 0.44 | 0.70 | 0.46 | 0.90 | — | — | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — | — | — | — | — |
| F 41 4_1092 | 1092 | 0.43 | 0.69 | 0.45 | 0.89 | — | — | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — | — | — | — | — |
| F 41 4_1213 | 1213 | 0.43 | 0.69 | 0.45 | 0.89 | — | — | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — | — | — | — | — |
| F 41 4_1411 | 1411 | 0.43 | 0.69 | 0.45 | 0.89 | — | — | 3.0 | 3.4 | 2.9 | 3.4 | 2.8 | 3.8 | — | — | — | — | — | — |




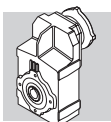
F 51

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | 180 | |
| F 51 2_7.2 | 7.2 | 25 | — | — | 28 | 28 | 30 | 30 | 42 | 101 | 103 | 34 |
| F 51 2_9.1 | 9.1 | 17 | — | — | 20 | 19 | 22 | 22 | 33 | 92 | 94 | 26 |
| F 51 2_11.1 | 11.1 | 16 | — | — | 19 | 19 | 22 | 22 | 33 | 92 | 94 | 25 |
| F 51 2_14.0 | 14.0 | 11 | — | — | 14 | 14 | 17 | 17 | 28 | 87 | 89 | 20 |
| F 51 2_18.8 | 18.8 | 7.0 | — | — | 9.8 | 9.6 | 12 | 12 | 24 | 83 | 85 | 16 |
| F 51 2_23.8 | 23.8 | 4.5 | — | — | 7.3 | 7.2 | 9.9 | 9.9 | 21 | 80 | 82 | 13 |
| F 51 2_30.0 | 30.0 | 3.1 | 3.8 | 3.8 | 5.9 | 5.8 | 8.5 | 8.5 | 20 | 79 | 81 | 12 |
| F 51 2_37.1 | 37.1 | 2.2 | 3.0 | 3.0 | 5.0 | 4.9 | 7.6 | 7.6 | 19 | 78 | 80 | 11 |
| F 51 3_48.9 | 48.9 | 6.2 | — | — | 8.9 | 8.8 | 12 | 12 | 23 | 82 | 84 | 15 |
| F 51 3_65.8 | 65.8 | 4.2 | — | — | 6.9 | 6.8 | 9.6 | 9.6 | 21 | 80 | 82 | 13 |
| F 51 3_83.2 | 83.2 | 2.7 | — | — | 5.5 | 5.4 | 8.1 | 8.1 | 19 | 78 | 80 | 12 |
| F 51 3_105.1 | 105.1 | 2.0 | 2.7 | 2.7 | 4.8 | 4.6 | 7.4 | 7.4 | 19 | 78 | 80 | 11 |
| F 51 3_129.9 | 129.9 | 1.5 | 2.2 | 2.2 | 4.3 | 4.1 | 6.9 | 6.9 | 18 | 77 | 79 | 10 |
| F 51 3_165.6 | 165.6 | 0.95 | 1.7 | 1.7 | 3.7 | 3.6 | 6.3 | 6.3 | 17 | 76 | 78 | 9.7 |
| F 51 3_202.4 | 202.4 | 0.72 | 1.4 | 1.4 | 3.5 | 3.3 | 6.1 | 6.1 | 17 | 76 | 78 | 9.5 |
| F 51 3_216.9 | 216.9 | 0.64 | 1.4 | 1.3 | 3.4 | 3.3 | 6.0 | 6.0 | — | — | — | 9.4 |
| F 51 3_239.8 | 239.8 | 0.60 | 1.3 | 1.3 | 3.4 | 3.2 | 6.0 | 6.0 | — | — | — | 9.4 |
| F 51 3_262.1 | 262.1 | 0.53 | 1.3 | 1.3 | 3.3 | 3.2 | 5.9 | 5.9 | — | — | — | 9.3 |
| F 51 3_285.9 | 285.9 | 0.46 | 1.2 | 1.2 | 3.2 | 3.1 | 5.8 | 5.8 | — | — | — | 9.2 |
| F 51 3_317.3 | 317.3 | 0.39 | 1.1 | 1.1 | 3.2 | 3.0 | 5.8 | 5.8 | — | — | — | 9.2 |
| F 51 3_352.5 | 352.5 | 0.28 | 1.1 | 1.1 | 3.1 | 3.0 | 5.7 | 5.7 | — | — | — | 9.1 |
| F 51 4_429.1 | 429.1 | 0.36 | 1.1 | 1.1 | 3.1 | 3.0 | 5.7 | 5.7 | 18 | — | — | 2.4 |
| F 51 4_530.5 | 530.5 | 0.33 | 1.1 | 1.0 | 3.1 | 3.0 | 5.7 | 5.7 | 18 | — | — | 2.4 |
| F 51 4_676.3 | 676.3 | 0.30 | 1.0 | 1.0 | 3.1 | 2.9 | 5.7 | 5.7 | 18 | — | — | 2.4 |
| F 51 4_826.4 | 826.4 | 0.28 | 1.0 | 1.0 | 3.0 | 2.9 | 5.7 | 5.7 | 18 | — | — | 2.3 |
| F 51 4_885.5 | 885.5 | 0.28 | 1.0 | 1.0 | 3.0 | 2.9 | 5.7 | 5.7 | — | — | — | 2.3 |
| F 51 4_979.4 | 979.4 | 0.28 | 1.0 | 1.0 | 3.0 | 2.9 | 5.7 | 5.7 | — | — | — | 2.3 |
| F 51 4_1070 | 1070 | 0.27 | 1.0 | 1.0 | 3.0 | 2.9 | 5.6 | 5.6 | — | — | — | 2.3 |
| F 51 4_1168 | 1168 | 0.27 | 1.0 | 1.0 | 3.0 | 2.9 | 5.6 | 5.6 | — | — | — | 2.3 |
| F 51 4_1296 | 1296 | 0.26 | 1.0 | 1.0 | 3.0 | 2.9 | 5.6 | 5.6 | — | — | — | 2.3 |
| F 51 4_1439 | 1439 | 0.26 | 1.0 | 1.0 | 3.0 | 2.9 | 5.6 | 5.6 | — | — | — | 2.3 |






F 51

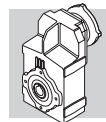
| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | |
|--------------|-------|---|-----|-----|-----|--------------------|-----|---------------------|-----|--------------|----|------|----|
| | i |  | | | | | | | | | | | |
| | | 80B | | 95A | | 80C 95B 110A | | 95C 110B 130A | | 130B 180A | | 180B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| F 51 2_7.2 | 7.2 | — | — | — | — | 28 | 29 | 28 | 23 | 42 | 44 | 42 | 47 |
| F 51 2_9.1 | 9.1 | — | — | — | — | 20 | 21 | 19 | 20 | 34 | 36 | 33 | 38 |
| F 51 2_11.1 | 11.1 | — | — | — | — | 19 | 20 | 19 | 20 | 33 | 35 | 33 | 38 |
| F 51 2_14.0 | 14.0 | — | — | — | — | 14 | 15 | 14 | 15 | 28 | 30 | 28 | 33 |
| F 51 2_18.8 | 18.8 | — | — | — | — | 9.8 | 10 | 9.6 | 11 | 24 | 26 | 24 | 29 |
| F 51 2_23.8 | 23.8 | — | — | — | — | 7.3 | 7.8 | 7.2 | 8.2 | 21 | 24 | 21 | 26 |
| F 51 2_30.0 | 30.0 | 5.9 | 6.4 | 5.9 | 6.4 | 5.9 | 6.4 | 5.8 | 6.8 | 20 | 23 | 20 | 25 |
| F 51 2_37.1 | 37.1 | 5.0 | 5.5 | 5.0 | 5.5 | 5.0 | 5.5 | 4.9 | 5.9 | 19 | 22 | 19 | 24 |
| F 51 3_48.9 | 48.9 | — | — | — | — | 8.9 | 9.4 | 8.8 | 9.8 | 23 | 26 | 23 | 28 |
| F 51 3_65.8 | 65.8 | — | — | — | — | 6.9 | 7.4 | 6.8 | 7.8 | 21 | 24 | 21 | 26 |
| F 51 3_83.2 | 83.2 | — | — | — | — | 5.5 | 6.0 | 5.4 | 6.4 | 20 | 22 | 19 | 24 |
| F 51 3_105.1 | 105.1 | 4.8 | 5.3 | 4.8 | 5.3 | 4.8 | 5.3 | 4.6 | 5.6 | 19 | 21 | 19 | 24 |
| F 51 3_129.9 | 129.9 | 4.3 | 4.8 | 4.3 | 4.8 | 4.3 | 4.8 | 4.1 | 5.1 | 18 | 21 | 18 | 23 |
| F 51 3_165.6 | 165.6 | 3.8 | 4.2 | 3.8 | 4.2 | 3.7 | 4.2 | 3.6 | 4.6 | 18 | 20 | 17 | 22 |
| F 51 3_202.4 | 202.4 | 3.5 | 4.0 | 3.5 | 4.0 | 3.5 | 4.0 | 3.3 | 4.3 | 18 | 20 | 17 | 22 |
| F 51 3_216.9 | 216.9 | 3.5 | 3.9 | 3.5 | 3.9 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| F 51 3_239.8 | 239.8 | 3.4 | 3.9 | 3.4 | 3.9 | 3.4 | 3.9 | 3.2 | 4.2 | — | — | — | — |
| F 51 3_262.1 | 262.1 | 3.4 | 3.8 | 3.4 | 3.8 | 3.3 | 3.8 | 3.2 | 4.2 | — | — | — | — |
| F 51 3_285.9 | 285.9 | 3.3 | 3.7 | 3.3 | 3.7 | 3.2 | 3.7 | 3.1 | 4.1 | — | — | — | — |
| F 51 3_317.3 | 317.3 | 3.2 | 3.6 | 3.2 | 3.6 | 3.2 | 3.7 | 3.0 | 4.0 | — | — | — | — |
| F 51 3_352.5 | 352.5 | 3.1 | 3.5 | 3.1 | 3.5 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| F 51 4_429.1 | 429.1 | — | — | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| F 51 4_530.5 | 530.5 | — | — | 3.2 | 3.6 | 3.1 | 3.6 | 3.0 | 4.0 | — | — | — | — |
| F 51 4_676.3 | 676.3 | — | — | 3.1 | 3.6 | 3.1 | 3.6 | 2.9 | 3.9 | — | — | — | — |
| F 51 4_826.4 | 826.4 | — | — | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — |
| F 51 4_885.5 | 885.5 | — | — | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — |
| F 51 4_979.4 | 979.4 | — | — | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — |
| F 51 4_1070 | 1070 | — | — | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — |
| F 51 4_1168 | 1168 | — | — | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — |
| F 51 4_1296 | 1296 | — | — | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — |
| F 51 4_1439 | 1439 | — | — | 3.1 | 3.5 | 3.0 | 3.5 | 2.9 | 3.9 | — | — | — | — |




F 60

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | 180 | |
| F 60 3_9.0 | 9.0 | 40 | — | — | — | — | — | — | 59 | 118 | 116 | 61 |
| F 60 3_9.7 | 9.7 | 38 | — | — | — | — | — | — | 57 | 116 | 114 | 59 |
| F 60 3_11.8 | 11.8 | 25 | — | — | 28 | 28 | 29 | 29 | 44 | 103 | 101 | 46 |
| F 60 3_12.7 | 12.7 | 24 | — | — | 27 | 27 | 28 | 28 | 43 | 102 | 100 | 45 |
| F 60 3_14.5 | 14.5 | 18 | — | — | 21 | 20 | 22 | 22 | 37 | 96 | 94 | 39 |
| F 60 3_15.7 | 15.7 | 17 | — | — | 20 | 20 | 21 | 21 | 36 | 95 | 93 | 38 |
| F 60 3_19.1 | 19.1 | 10 | — | — | 13 | 13 | 14 | 14 | 29 | 89 | 86 | 31 |
| F 60 3_20.7 | 20.7 | 9.9 | — | — | 13 | 13 | 14 | 14 | 29 | 88 | 86 | 31 |
| F 60 3_23.5 | 23.5 | 7.3 | — | — | 10 | 10 | 11 | 11 | 26 | 86 | 83 | 28 |
| F 60 3_25.4 | 25.4 | 7.1 | — | — | 9.9 | 9.9 | 11 | 11 | 26 | 85 | 83 | 28 |
| F 60 3_29.6 | 29.6 | 15 | — | — | — | — | — | — | 34 | 93 | 91 | 36 |
| F 60 3_32.1 | 32.1 | 15 | — | — | — | — | — | — | 34 | 93 | 91 | 36 |
| F 60 3_38.8 | 38.8 | 11 | — | — | 14 | 13 | 15 | 15 | 30 | 89 | 87 | 32 |
| F 60 3_42.1 | 42.1 | 11 | — | — | 13 | 13 | 15 | 15 | 29 | 89 | 87 | 31 |
| F 60 3_47.8 | 47.8 | 8.2 | — | — | 11 | 11 | 12 | 12 | 27 | 86 | 84 | 29 |
| F 60 3_51.8 | 51.8 | 8.1 | — | — | 11 | 11 | 12 | 12 | 27 | 86 | 84 | 29 |
| F 60 3_63.0 | 63.0 | 4.9 | — | — | 7.7 | 7.6 | 8.9 | 8.9 | 24 | 83 | 81 | 26 |
| F 60 3_68.3 | 68.3 | 4.8 | — | — | 7.7 | 7.6 | 8.9 | 8.9 | 24 | 83 | 81 | 26 |
| F 60 3_77.6 | 77.6 | 3.7 | — | — | 6.6 | 6.5 | 7.8 | 7.8 | 23 | 82 | 80 | 25 |
| F 60 3_84.0 | 84.0 | 3.7 | — | — | 6.5 | 6.5 | 7.8 | 7.8 | 23 | 82 | 80 | 25 |
| F 60 3_98.2 | 98.2 | 2.7 | 4.2 | 4.2 | 5.6 | 5.5 | 6.8 | 6.8 | 22 | 81 | 79 | 24 |
| F 60 3_106.4 | 106.4 | 2.7 | 4.2 | 4.2 | 5.5 | 5.4 | 6.8 | 6.8 | 22 | 81 | 79 | 24 |
| F 60 3_120.5 | 120.5 | 1.8 | 3.2 | 3.2 | 4.6 | 4.6 | 5.9 | 5.9 | 21 | 80 | 78 | 23 |
| F 60 3_130.5 | 130.5 | 1.8 | 3.2 | 3.2 | 4.6 | 4.6 | 5.8 | 5.8 | 21 | 80 | 78 | 23 |
| F 60 3_150.4 | 150.4 | 1.3 | 2.7 | 2.7 | 4.1 | 4.1 | 5.4 | 5.4 | 20 | 80 | 77 | 22 |
| F 60 3_162.9 | 162.9 | 1.3 | 2.7 | 2.7 | 4.1 | 4.1 | 5.4 | 5.4 | 20 | 80 | 77 | 22 |
| F 60 3_185.9 | 185.9 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 5.0 | 20 | 79 | 77 | 22 |
| F 60 3_201.4 | 201.4 | 0.90 | 2.4 | 2.4 | 3.8 | 3.7 | 5.0 | 5.0 | 20 | 79 | 77 | 22 |
| F 60 3_217.6 | 217.6 | 0.70 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | — | — | — | 22 |
| F 60 3_235.8 | 235.8 | 0.70 | 2.2 | 2.2 | 3.6 | 3.5 | 4.8 | 4.8 | — | — | — | 22 |
| F 60 3_259.1 | 259.1 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 22 |
| F 60 3_280.7 | 280.7 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 22 |

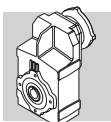
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.






F 60

| | | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|--------------|-------|---|-----|--------------------|-----|---------------------|-----|--------------|----|------|----|
| | |  | | | | | | | | | |
| | i | 95A | | 80C 95B 110A | | 95C 110B 130A | | 130B 180A | | 180B | |
| | | SK | SC | SK | SC | SK | SC | SK | SC | SK | SC |
| F 60 3_9.0 | 9.0 | — | — | — | — | — | — | 57 | 59 | 59 | 64 |
| F 60 3_9.7 | 9.7 | — | — | — | — | — | — | 55 | 57 | 57 | 62 |
| F 60 3_11.8 | 11.8 | — | — | 28 | 29 | 28 | 29 | 42 | 44 | 44 | 49 |
| F 60 3_12.7 | 12.7 | — | — | 27 | 28 | 27 | 28 | 41 | 43 | 43 | 48 |
| F 60 3_14.5 | 14.5 | — | — | 21 | 22 | 20 | 21 | 35 | 37 | 37 | 42 |
| F 60 3_15.7 | 15.7 | — | — | 20 | 21 | 20 | 21 | 34 | 36 | 36 | 41 |
| F 60 3_19.1 | 19.1 | — | — | 13 | 14 | 13 | 14 | 27 | 29 | 29 | 34 |
| F 60 3_20.7 | 20.7 | — | — | 13 | 14 | 13 | 14 | 27 | 29 | 29 | 34 |
| F 60 3_23.5 | 23.5 | — | — | 10 | 11 | 10 | 11 | 24 | 27 | 26 | 31 |
| F 60 3_25.4 | 25.4 | — | — | 9.9 | 10 | 9.9 | 11 | 24 | 27 | 26 | 31 |
| F 60 3_29.6 | 29.6 | — | — | — | — | — | — | 32 | 34 | 34 | 39 |
| F 60 3_32.1 | 32.1 | — | — | — | — | — | — | 32 | 34 | 34 | 39 |
| F 60 3_38.8 | 38.8 | — | — | 14 | 15 | 13 | 14 | 28 | 30 | 30 | 35 |
| F 60 3_42.1 | 42.1 | — | — | 13 | 14 | 13 | 14 | 28 | 30 | 29 | 34 |
| F 60 3_47.8 | 47.8 | — | — | 11 | 12 | 11 | 12 | 25 | 28 | 27 | 32 |
| F 60 3_51.8 | 51.8 | — | — | 11 | 12 | 11 | 12 | 25 | 28 | 27 | 32 |
| F 60 3_63.0 | 63.0 | — | — | 7.7 | 8.2 | 7.6 | 8.6 | 22 | 24 | 24 | 29 |
| F 60 3_68.3 | 68.3 | — | — | 7.7 | 8.2 | 7.6 | 8.6 | 22 | 24 | 24 | 29 |
| F 60 3_77.6 | 77.6 | — | — | 6.6 | 7.1 | 6.5 | 7.5 | 21 | 23 | 23 | 28 |
| F 60 3_84.0 | 84.0 | — | — | 6.5 | 7.0 | 6.5 | 7.5 | 21 | 23 | 23 | 28 |
| F 60 3_98.2 | 98.2 | — | — | 5.6 | 6.1 | 5.5 | 6.5 | 20 | 22 | 22 | 27 |
| F 60 3_106.4 | 106.4 | 5.5 | 6.0 | 5.5 | 6.0 | 5.4 | 6.4 | 20 | 22 | 22 | 27 |
| F 60 3_120.5 | 120.5 | 2.2 | 2.7 | 4.6 | 5.1 | 4.6 | 5.6 | 19 | 21 | 21 | 26 |
| F 60 3_130.5 | 130.5 | 2.2 | 2.7 | 4.6 | 5.1 | 4.6 | 5.6 | 19 | 21 | 21 | 26 |
| F 60 3_150.4 | 150.4 | 4.1 | 4.6 | 4.1 | 4.6 | 4.1 | 5.1 | 18 | 21 | 20 | 25 |
| F 60 3_162.9 | 162.9 | 4.1 | 4.6 | 4.1 | 4.6 | 4.1 | 5.1 | 18 | 21 | 20 | 25 |
| F 60 3_185.9 | 185.9 | 3.7 | 4.2 | 3.8 | 4.3 | 3.7 | 4.7 | 18 | 20 | 20 | 25 |
| F 60 3_201.4 | 201.4 | 3.7 | 4.2 | 3.8 | 4.3 | 3.7 | 4.7 | 18 | 20 | 20 | 25 |
| F 60 3_217.6 | 217.6 | 3.5 | 4.0 | 3.6 | 4.1 | 3.5 | 4.5 | — | — | — | — |
| F 60 3_235.8 | 235.8 | 3.5 | 4.0 | 3.6 | 4.1 | 3.5 | 4.5 | — | — | — | — |
| F 60 3_259.1 | 259.1 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |
| F 60 3_280.7 | 280.7 | 3.3 | 3.8 | 3.4 | 3.9 | 3.3 | 4.3 | — | — | — | — |

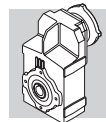
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.






F 70

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|---|-----|-----|
| | |  |  IEC | | | | | |  | | |
| | | | 80 | 90 | 100 | 112 | 132 | 160 | 180 | 200 | |
| F 70 3_10.0 | 10.0 | — | — | — | — | — | — | 169 | 167 | 176 | 133 |
| F 70 3_10.9 | 10.9 | — | — | — | — | — | — | 166 | 163 | 173 | 129 |
| F 70 3_12.8 | 12.8 | — | — | — | — | — | — | 139 | 137 | 146 | 102 |
| F 70 3_13.9 | 13.9 | — | — | — | — | — | — | 137 | 135 | 144 | 100 |
| F 70 3_16.3 | 16.3 | 39 | — | — | — | — | 58 | 117 | 115 | 124 | 80 |
| F 70 3_17.7 | 17.7 | 37 | — | — | — | — | 56 | 116 | 113 | 123 | 79 |
| F 70 3_20.9 | 20.9 | 26 | — | — | — | — | 45 | 105 | 102 | — | 68 |
| F 70 3_22.6 | 22.6 | 26 | — | — | — | — | 44 | 104 | 102 | — | 67 |
| F 70 3_24.6 | 24.6 | 21 | — | — | — | — | 40 | 99 | 97 | — | 62 |
| F 70 3_27.7 | 27.7 | — | — | — | — | — | — | 128 | 126 | 135 | 73 |
| F 70 3_30.0 | 30.0 | — | — | — | — | — | — | 127 | 125 | 134 | 73 |
| F 70 3_35.4 | 35.4 | — | — | — | — | — | — | 114 | 112 | 121 | 77 |
| F 70 3_38.4 | 38.4 | — | — | — | — | — | — | 114 | 111 | 121 | 77 |
| F 70 3_45.2 | 45.2 | 23 | — | — | — | — | 42 | 101 | 99 | 108 | 65 |
| F 70 3_49.0 | 49.0 | 23 | — | — | — | — | 42 | 101 | 99 | 108 | 65 |
| F 70 3_57.7 | 57.7 | 17 | — | — | — | — | 36 | 95 | 93 | — | 58 |
| F 70 3_62.5 | 62.5 | 17 | — | — | — | — | 36 | 95 | 93 | — | 58 |
| F 70 3_67.9 | 67.9 | 14 | — | — | — | — | 33 | 92 | 90 | — | 55 |
| F 70 3_73.6 | 73.6 | 14 | — | — | — | — | 33 | 92 | 90 | — | 55 |
| F 70 3_85.4 | 85.4 | 9.0 | 11 | 11 | 13 | 13 | 28 | 87 | 85 | — | 50 |
| F 70 3_92.5 | 92.5 | 9.0 | 11 | 11 | 13 | 13 | 28 | 87 | 85 | — | 50 |
| F 70 3_101.2 | 101.2 | 6.3 | 8.9 | 8.8 | 10 | 10 | 25 | 85 | 82 | — | 47 |
| F 70 3_109.6 | 109.6 | 6.3 | 8.9 | 8.8 | 10 | 10 | 25 | 85 | 82 | — | 47 |
| F 70 3_122.7 | 122.7 | 5.1 | 7.9 | 7.8 | 9.1 | 9.1 | 24 | 83 | 81 | — | 46 |
| F 70 3_133.0 | 133.0 | 5.1 | 7.9 | 7.8 | 9.1 | 9.1 | 24 | 83 | 81 | — | 46 |
| F 70 3_153.8 | 153.8 | 3.2 | 6.0 | 6.0 | 7.3 | 7.3 | 22 | 81 | 79 | — | 44 |
| F 70 3_166.7 | 166.7 | 3.2 | 6.0 | 6.0 | 7.3 | 7.3 | 22 | 81 | 79 | — | 44 |
| F 70 3_180.9 | 180.9 | 2.3 | 5.1 | 5.1 | 6.3 | 6.3 | 21 | 81 | 78 | — | 43 |
| F 70 3_196.0 | 196.0 | 2.3 | 5.1 | 5.0 | 6.3 | 6.3 | 21 | 81 | 78 | — | 43 |

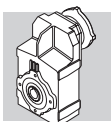
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

F 80

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | |  |  IEC | | | | | | | | |  |
| | | 80 | 90 | 100 | 112 | 132 | 160 | 180 | 200 | 225 | | |
| F 80 3_10.3 | 10.3 | — | — | — | — | — | — | 286 | 300 | 578 | 252 | |
| F 80 3_11.2 | 11.2 | — | — | — | — | — | — | 277 | 291 | 569 | 244 | |
| F 80 3_12.9 | 12.9 | — | — | — | — | — | 217 | 218 | 231 | 509 | 184 | |
| F 80 3_14.0 | 14.0 | — | — | — | — | — | 212 | 212 | 226 | 504 | 178 | |
| F 80 3_16.2 | 16.2 | — | — | — | — | — | 173 | 171 | 180 | 464 | 136 | |
| F 80 3_17.6 | 17.6 | — | — | — | — | — | 170 | 167 | 177 | 461 | 133 | |
| F 80 3_20.3 | 20.3 | 60 | — | — | — | 79 | 139 | 136 | 146 | 431 | 102 | |
| F 80 3_22.0 | 22.0 | 58 | — | — | — | 77 | 136 | 134 | 143 | 429 | 100 | |
| F 80 3_25.2 | 25.2 | 43 | — | — | — | 62 | 121 | 119 | 150 | 413 | 84 | |
| F 80 3_28.8 | 28.8 | — | — | — | — | — | — | 189 | 203 | 480 | 155 | |
| F 80 3_31.3 | 31.3 | — | — | — | — | — | — | 188 | 201 | 479 | 154 | |
| F 80 3_36.0 | 36.0 | — | — | — | — | — | 155 | 155 | 169 | 447 | 121 | |
| F 80 3_39.0 | 39.0 | — | — | — | — | — | 154 | 154 | 168 | 446 | 121 | |
| F 80 3_45.3 | 45.3 | — | — | — | — | — | 133 | 132 | 141 | 425 | 97 | |
| F 80 3_49.1 | 49.1 | — | — | — | — | — | 133 | 131 | 140 | 425 | 97 | |
| F 80 3_56.7 | 56.7 | 35 | — | — | — | 54 | 113 | 111 | 120 | 406 | 77 | |
| F 80 3_61.5 | 61.5 | 35 | — | — | — | 54 | 113 | 111 | 120 | 406 | 76 | |
| F 80 3_70.4 | 70.4 | 27 | — | — | — | 46 | 105 | 103 | 133 | 397 | 68 | |
| F 80 3_76.3 | 76.3 | 27 | — | — | — | 45 | 105 | 103 | 133 | 396 | 68 | |
| F 80 3_85.2 | 85.2 | 20 | — | — | — | 39 | 99 | 96 | 126 | 389 | 62 | |
| F 80 3_92.3 | 92.3 | 20 | — | — | — | 39 | 99 | 96 | 126 | 389 | 61 | |
| F 80 3_105.0 | 105.0 | 14 | 16 | 16 | 17 | 17 | 32 | 92 | 90 | 119 | 383 | 55 |
| F 80 3_113.8 | 113.8 | 14 | 16 | 16 | 17 | 17 | 32 | 92 | 90 | 119 | 382 | 55 |
| F 80 3_122.5 | 122.5 | 13 | 15 | 15 | 17 | 17 | 32 | 91 | 89 | 118 | 381 | 54 |
| F 80 3_132.7 | 132.7 | 13 | 15 | 15 | 16 | 16 | 31 | 91 | 89 | 118 | 381 | 54 |
| F 80 3_147.9 | 147.9 | 8.5 | 11 | 11 | 13 | 13 | 27 | 87 | 85 | 114 | 377 | 50 |
| F 80 3_160.2 | 160.2 | 8.5 | 11 | 11 | 13 | 13 | 27 | 87 | 84 | — | — | 50 |
| F 80 3_184.6 | 184.6 | 5.1 | 7.9 | 7.8 | 9.1 | 9.1 | 24 | 83 | 81 | — | — | 46 |
| F 80 3_200.0 | 200.0 | 5.0 | 7.9 | 7.8 | 9.1 | 9.1 | 24 | 83 | 81 | — | — | 46 |

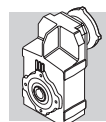
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



F 90

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | | |
|--------------|-------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| | |  |  IEC | | | | | | | | |  | |
| | | 80 | 90 | 100 | 112 | 132 | 160 | 180 | 200 | 225 | 250 | | |
| F 90 3_10.3 | 10.3 | — | — | — | — | — | — | 549 | 559 | 843 | 870 | 850 | |
| F 90 3_11.1 | 11.1 | — | — | — | — | — | — | 529 | 539 | 823 | 850 | 830 | |
| F 90 3_13.4 | 13.4 | — | — | — | — | — | — | 373 | 383 | 667 | 694 | 674 | |
| F 90 3_14.5 | 14.5 | — | — | — | — | — | — | 361 | 371 | 655 | 682 | 662 | |
| F 90 3_16.5 | 16.5 | — | — | — | — | — | — | 286 | 296 | 580 | 607 | 587 | |
| F 90 3_17.9 | 17.9 | — | — | — | — | — | — | 278 | 288 | 572 | 599 | 579 | |
| F 90 3_20.6 | 20.6 | — | — | — | — | — | 224 | 222 | 232 | 516 | 542 | 513 | |
| F 90 3_22.3 | 22.3 | — | — | — | — | — | 220 | 217 | 227 | 511 | 537 | 508 | |
| F 90 3_25.4 | 25.4 | 103 | — | — | — | 122 | 181 | 179 | 188 | 474 | 500 | 471 | |
| F 90 3_28.6 | 28.6 | — | — | — | — | — | — | 291 | 301 | 585 | 613 | 593 | |
| F 90 3_31.0 | 31.0 | — | — | — | — | — | — | 289 | 299 | 583 | 610 | 590 | |
| F 90 3_37.4 | 37.4 | — | — | — | — | — | — | 222 | 232 | 516 | 543 | 523 | |
| F 90 3_40.5 | 40.5 | — | — | — | — | — | — | 220 | 230 | 514 | 541 | 521 | |
| F 90 3_46.1 | 46.1 | — | — | — | — | — | — | 186 | 196 | 480 | 507 | 487 | |
| F 90 3_49.9 | 49.9 | — | — | — | — | — | — | 185 | 195 | 479 | 506 | 486 | |
| F 90 3_57.3 | 57.3 | — | — | — | — | — | 161 | 158 | 168 | 452 | 479 | 450 | |
| F 90 3_62.1 | 62.1 | — | — | — | — | — | 160 | 158 | 167 | 451 | 478 | 449 | |
| F 90 3_70.8 | 70.8 | 61 | — | — | — | 80 | 139 | 137 | 146 | 432 | 458 | 429 | |
| F 90 3_76.7 | 76.7 | 60 | — | — | — | 79 | 139 | 136 | 146 | 431 | 458 | 429 | |
| F 90 3_88.4 | 88.4 | 44 | — | — | — | 63 | 123 | 120 | 151 | 414 | 441 | 412 | |
| F 90 3_95.8 | 95.8 | 44 | — | — | — | 63 | 122 | 120 | 151 | 414 | 441 | 412 | |
| F 90 3_103.3 | 103.3 | 41 | — | — | — | 59 | 119 | 117 | 146 | 410 | 436 | 408 | |
| F 90 3_111.9 | 111.9 | 40 | — | — | — | 59 | 119 | 116 | 146 | 409 | 436 | 407 | |
| F 90 3_126.8 | 126.8 | 26 | 29 | 29 | 30 | 30 | 45 | 105 | 102 | 132 | 395 | 422 | 393 |
| F 90 3_137.3 | 137.3 | 26 | 29 | 29 | 30 | 30 | 45 | 104 | 102 | 132 | 395 | 422 | 393 |
| F 90 3_150.3 | 150.3 | 21 | 24 | 24 | 25 | 25 | 40 | 100 | 97 | 127 | 390 | 417 | 388 |
| F 90 3_162.8 | 162.8 | 21 | 24 | 24 | 25 | 25 | 40 | 100 | 97 | 127 | 390 | 417 | 388 |
| F 90 3_179.2 | 179.2 | 14 | 16 | 16 | 18 | 18 | 33 | 92 | 90 | — | — | — | 381 |
| F 90 3_194.2 | 194.2 | 14 | 16 | 16 | 17 | 17 | 33 | 92 | 90 | — | — | — | 381 |

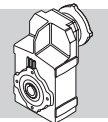
Quant aux valeurs des moments d'inertie, se référant aux réducteurs à 4 étages, consultez notre Service Technique.



58 RAPPORTS EXACTS

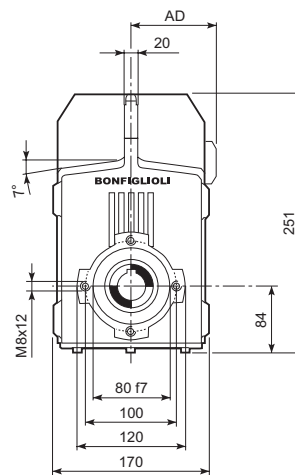
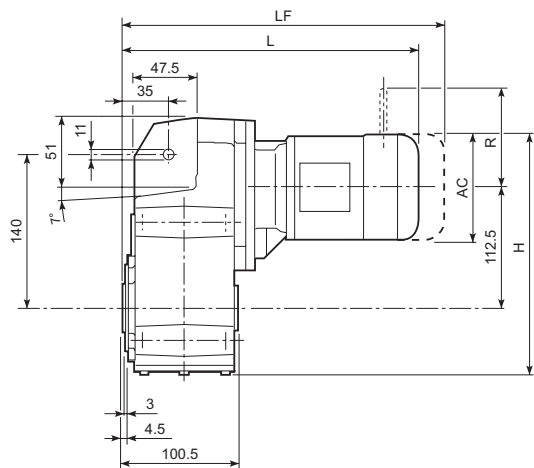
| iN | F 10 | F 20 | F 25 | F 31 | F 41 | F 51 | F 60 | F 70 | F 80 | F 90 |
|--------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| 6.3 | | 6.41210 | | | | | | | | |
| 7.1 | 7.40443 | | 6.86957 | 6.94907 | 6.72727 | 7.19408 | | | | |
| 8.0 | | 7.83478 | 8.39375 | 8.22917 | | | | | | |
| 9.0 | 8.58204 | 8.73227 | 9.35526 | 9.01630 | 9.13580 | 9.05114 | 8.96000 | | | |
| 10.0 | 9.76974 | 10.03069 | 10.62451 | 10.74747 | | | 9.70667 | 10.01538 | 10.33846 | 10.26577 |
| 11.2 | 11.53759 | 11.23370 | | | 10.77273 | 11.11005 | 11.75320 | 10.85000 | 11.20000 | 11.12125 |
| 12.5 | 13.02632 | | 12.98182 | 12.72727 | | 13.97796 | 12.73263 | 12.81731 | 12.90240 | 13.41346 |
| 14.0 | 14.64777 | 14.79842 | 14.46890 | 13.94466 | 14.62963 | | 14.47385 | 13.88542 | 13.97760 | 14.53125 |
| 16.0 | 16.97738 | | 16.62032 | 16.80000 | 17.11667 | | 15.68000 | 16.34455 | 16.24615 | 16.52538 |
| 18.0 | | 18.08182 | 18.61364 | 18.48804 | 18.89130 | 18.82155 | 19.06872 | 17.70660 | 17.60000 | 17.90250 |
| 20.0 | 19.32692 | 20.15311 | 21.81818 | 21.11230 | | | 20.65778 | 20.86538 | 20.33231 | 20.56731 |
| 22.4 | 22.82418 | 23.14973 | 23.75758 | 23.8636 | | 23.79447 | 23.46381 | 22.60417 | 22.02667 | 22.28125 |
| 25.0 | 25.76923 | 25.92614 | 27.20455 | 27.27273 | 24.11579 | | 25.41913 | 24.55695 | 25.22585 | 25.38622 |
| 28.0 | 29.63462 | 30.38961 | 30.03636 | 30.12121 | 30.11875 | 30.03828 | 29.61538 | 27.69231 | 28.84615 | 28.61169 |
| 31.5 | 32.98462 | 33.09091 | 32.18182 | 34.36364 | | | 32.08333 | 30.00000 | 31.25000 | 30.99600 |
| 35.5 | 35.34066 | 37.89205 | 36.41958 | 37.67273 | 38.18333 | 37.13636 | 38.84771 | 35.43956 | 36.00000 | 37.38462 |
| 40.0 | 39.64497 | 41.83636 | 40.72727 | 40.36364 | | | 42.08502 | 38.39286 | 39.00000 | 40.50000 |
| 45.0 | 44.66667 | 44.82468 | 45.56607 | 44.64336 | 47.92667 | | 47.84024 | 45.19231 | 45.32967 | 46.05785 |
| 50.0 | 48.72727 | 50.72727 | 50.78571 | 47.54630 | 51.49270 | 48.89965 | 51.82692 | 48.95833 | 49.10714 | 49.89600 |
| 56.0 | 56.69231 | 56.72727 | 58.33718 | 52.09420 | 60.24646 | | 63.02761 | 57.69231 | 56.73077 | 57.32308 |
| 63.0 | 62.99145 | 61.88430 | 65.33371 | 62.76111 | 66.49275 | 65.84416 | 68.27991 | 62.50000 | 61.45833 | 62.10000 |
| 71.0 | 71.12308 | 69.13636 | 76.58163 | 69.06725 | | | 77.55467 | 73.55769 | 70.38462 | 70.75385 |
| 80.0 | 81.31624 | 76.81818 | 83.38889 | 78.87092 | 84.88166 | 83.24111 | 84.01756 | 85.38462 | 76.25000 | 76.65000 |
| 90.0 | 91.48077 | 90.40909 | 95.48772 | 87.36632 | | | 98.19838 | 92.50000 | 92.30769 | 88.39385 |
| 100.0 | 106.02198 | 101.63636 | 105.42738 | 101.88492 | 106.01061 | 105.08407 | 106.38158 | 101.18343 | 105.00000 | 103.33491 |
| 112.2 | | 114.34091 | 112.95791 | 112.52623 | | | 120.45488 | 109.61538 | 113.75000 | 111.94615 |
| 125.5 | 127.12821 | 132.19481 | 127.83242 | 128.37500 | 134.39596 | 129.91558 | 130.49279 | 122.72727 | 122.48521 | 126.77538 |
| 140.0 | | 156.30469 | 142.95238 | 140.73704 | | | 150.35503 | 132.95455 | 132.69231 | 150.30533 |
| 160.0 | | 172.57500 | 155.94805 | 166.77778 | 168.69010 | 165.62338 | 162.88462 | 166.66667 | 160.22727 | 162.83077 |
| 180.0 | | 184.90179 | 174.22321 | 185.43056 | 180.73939 | 202.39481 | 185.89349 | 180.94406 | 184.61538 | 179.21958 |
| 200.0 | | 209.25000 | 193.58135 | 202.28788 | 198.92028 | 216.85158 | 201.38462 | 196.02273 | 200.00000 | 194.15455 |
| 225.0 | | 234.00000 | 227.83036 | 228.22222 | 220.13131 | 239.84416 | 217.64679 | 216.52422 | 218.49174 | 213.59178 |
| 250.0 | | 255.27273 | 256.12302 | 253.58025 | 240.14325 | 262.11039 | 259.08284 | 234.56790 | 273.89277 | 231.39109 |
| 280.0 | | 285.18750 | 288.13839 | 293.83611 | 266.93818 | 285.93861 | 280.67308 | 280.93645 | 296.71717 | 268.72770 |
| 315.0 | | 316.87500 | 333.13010 | 332.82407 | 296.59798 | 317.26753 | 315.38899 | 304.34783 | 353.67893 | 291.12168 |
| 355.0 | | 372.93750 | | 374.42708 | 344.79515 | 352.51948 | 341.67140 | 372.46964 | 383.15217 | 361.84615 |
| 400.0 | | 419.25000 | 393.88686 | 418.86023 | | 429.09330 | 399.34008 | 403.50877 | 451.49061 | 392.00000 |
| 450.0 | | 471.65625 | 434.88795 | 462.60785 | 433.67975 | | 432.61842 | 471.15385 | 489.11483 | 457.45099 |
| 500.0 | | | 465.95137 | 527.76389 | | | 489.84985 | 510.41667 | 563.87675 | 495.57191 |
| 560.0 | | 545.30357 | 527.30872 | 578.58560 | 549.80165 | 530.48864 | 530.67067 | 606.83761 | 610.86648 | 577.48888 |
| 630.0 | | | 589.67857 | 619.91314 | 690.09587 | 676.29545 | 611.44379 | 657.40741 | 714.86014 | 625.61296 |
| 710.0 | | | 643.28571 | 685.64198 | 739.38843 | 826.44545 | 755.96686 | 758.97436 | 774.43182 | 713.95030 |
| 800.0 | | | 718.67076 | 762.32562 | 813.76478 | 885.47727 | 818.96410 | 822.22222 | 897.27273 | 773.44615 |
| 900.0 | | | 798.52307 | 831.62795 | 900.53719 | 979.36364 | 885.09695 | 899.40828 | 972.04545 | 910.18225 |
| 1000.0 | | | 939.80022 | 938.24691 | 982.40421 | 1070.28409 | 958.85503 | 974.35897 | 1058.06885 | 986.03077 |
| 1125.0 | | | 1056.50744 | 1042.49657 | 1092.01983 | 1167.58264 | 1053.60355 | 1090.90909 | 1146.24126 | 1112.25941 |
| 1250.0 | | | 1188.57087 | 1207.99290 | 1213.35537 | 1295.50909 | 1141.40385 | 1181.81818 | 1277.33630 | 1204.94769 |
| 1400.0 | | | 1374.16167 | 1368.27675 | 1410.52562 | 1439.45455 | | 1367.52137 | 1383.78099 | 1427.90059 |
| 1600.0 | | | | 1539.31134 | | | | 1584.61538 | 1577.62238 | 1571.37386 |
| 1800.0 | | | | | | | | 1716.66667 | 1709.09091 | 1702.32168 |
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| 2250.0 | | | | | | | | 2187.50000 | 1986.81818 | 2098.70769 |



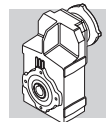


59 DIMENSIONS

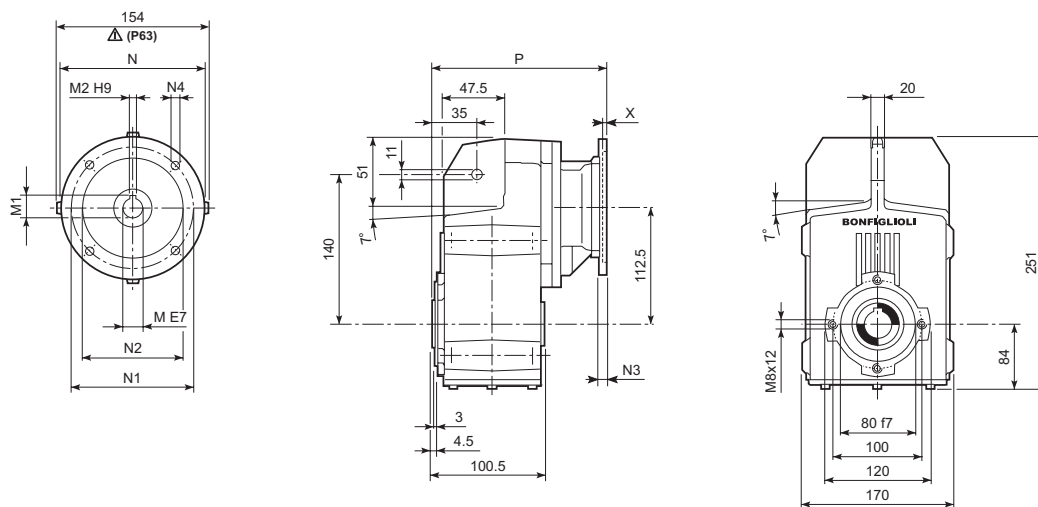
F 10...M



| | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|---------------|------------|------------|-----|-------|-------|-----|----|------------------|----|--------|-----|--------|-----|
| | | | AC | H | L | AD | | LF | | R | AD | R | AD |
| | | | | | | | | | | | | | |
| F 10 2 | S05 | M05 | 121 | 220.5 | 311.5 | 95 | 12 | 377.5 | 13 | 96 | 122 | 116 | 95 |
| F 10 2 | S1 | M1 | 138 | 265.5 | 340.5 | 108 | 14 | 401.5 | 17 | 103 | 135 | 124 | 108 |
| F 10 2 | S2 | M2S | 156 | 274.5 | 369.5 | 119 | 18 | 439.5 | 21 | 129 | 146 | 134 | 119 |
| F 10 2 | S3 | M3S | 195 | 294 | 412.5 | 142 | 22 | 508.5 | 30 | 160 | 158 | 160 | 142 |
| F 10 2 | S3 | M3L | 195 | 294 | 444.5 | 142 | 24 | 535.5 | 31 | 160 | 158 | 160 | 142 |

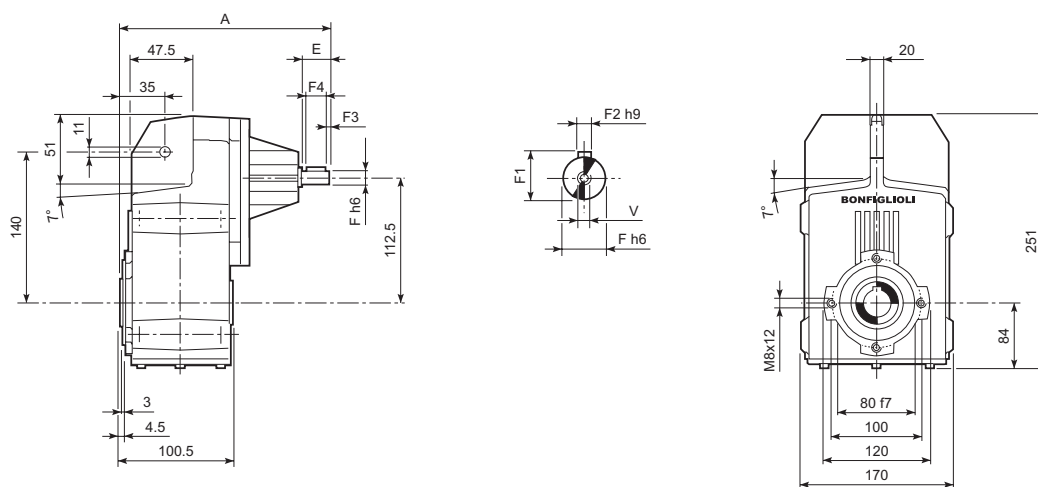


F 10...P(IEC)

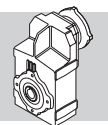


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| F 10 2 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 185.5 | 8 |
| F 10 2 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 185.5 | 8 |
| F 10 2 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 205 | 9 |
| F 10 2 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 205 | 9 |
| F 10 2 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 215 | 13 |
| F 10 2 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 215 | 13 |

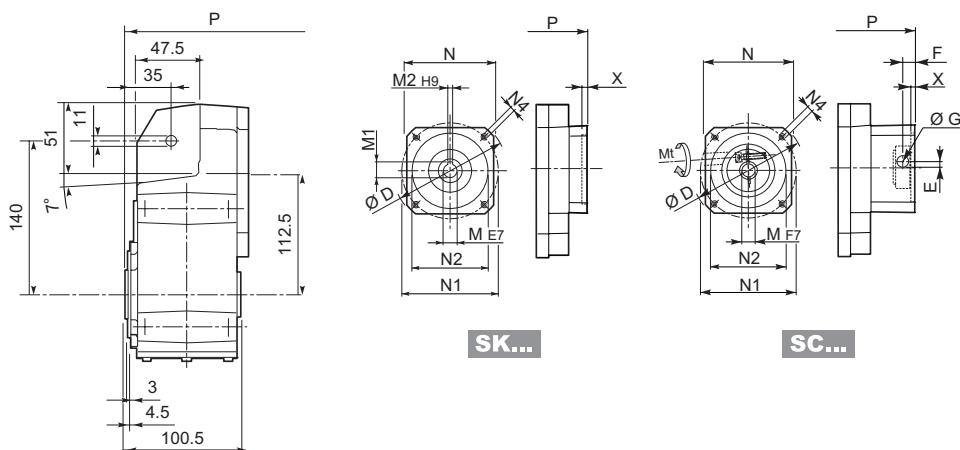
F 10...HS



| | | A | E | F | F1 | F2 | F3 | F4 | V | |
|--------|----|-----|----|----|----|----|-----|----|-------|-----|
| F 10 2 | HS | 192 | 40 | 16 | 18 | 5 | 2.5 | 35 | M6x16 | 7.5 |



F 10...SK / SC

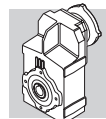


SK...

SC...

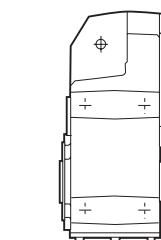
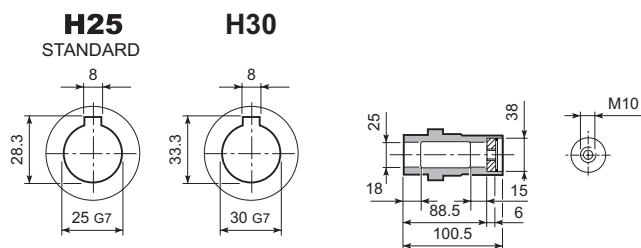
| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | P | |
|--------|---------|-----|----|------|----|-----|-----|-----|-------|-----|-----|---|
| F 10 2 | SK 60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 157 | 8 |
| F 10 2 | SK 60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 164 | 8 |
| F 10 2 | SK 80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 164 | 8 |
| F 10 2 | SK 80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 205 | 9 |
| F 10 2 | SK 95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 205 | 9 |
| F 10 2 | SK 95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 205 | 9 |
| F 10 2 | SK 95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 205 | 9 |
| F 10 2 | SK 110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 205 | 9 |
| F 10 2 | SK 110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 205 | 9 |

| | | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | P | |
|--------|---------|----|-------|-----|------|------|-------|----|-----|-----|-----|-------|---|-------|----|
| F 10 2 | SC 60A | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 184 | 8 |
| F 10 2 | SC 60B | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 184 | 9 |
| F 10 2 | SC 80A | M6 | 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 184 | 9 |
| F 10 2 | SC 80C | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 228.5 | 10 |
| F 10 2 | SC 95A | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 228.5 | 10 |
| F 10 2 | SC 95B | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 228.5 | 10 |
| F 10 2 | SC 95C | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 228.5 | 10 |
| F 10 2 | SC 110A | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 228.5 | 11 |
| F 10 2 | SC 110B | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 228.5 | 11 |

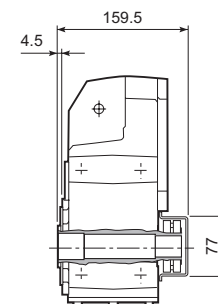
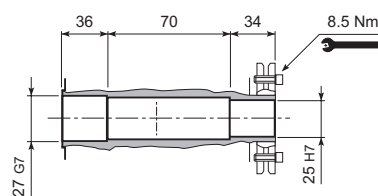


F 10

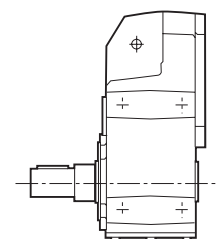
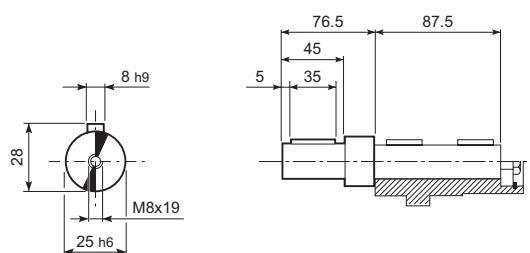
F 10...H



F 10...S

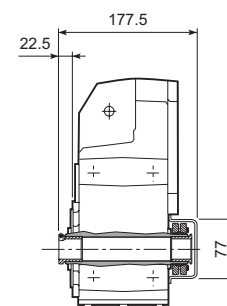
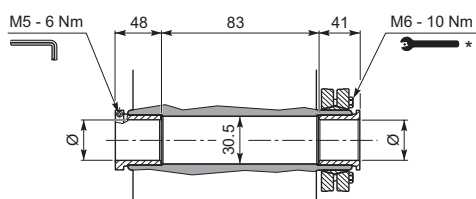


F 10...R

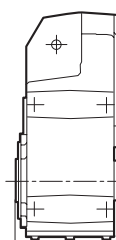
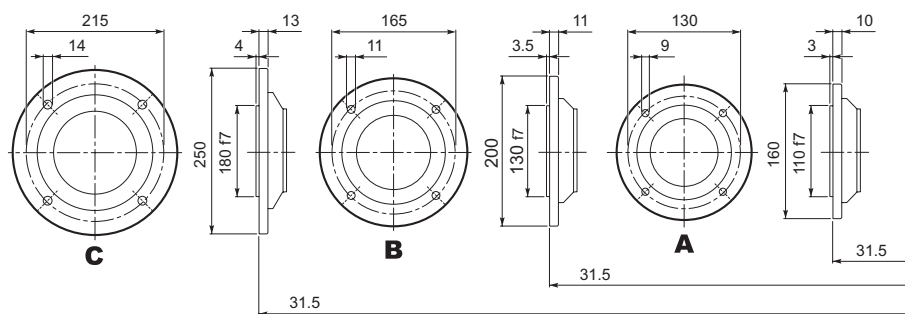


F 10...QF

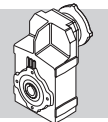
| | Ø |
|------|----|
| QF25 | 25 |
| QF30 | 30 |



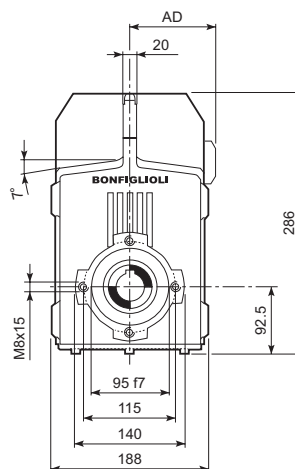
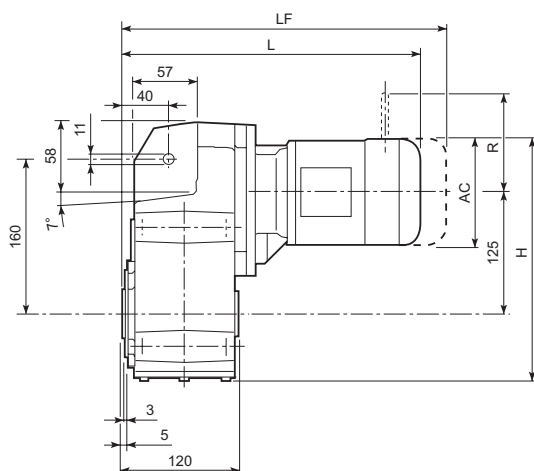
F 10...F...



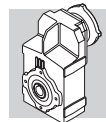
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



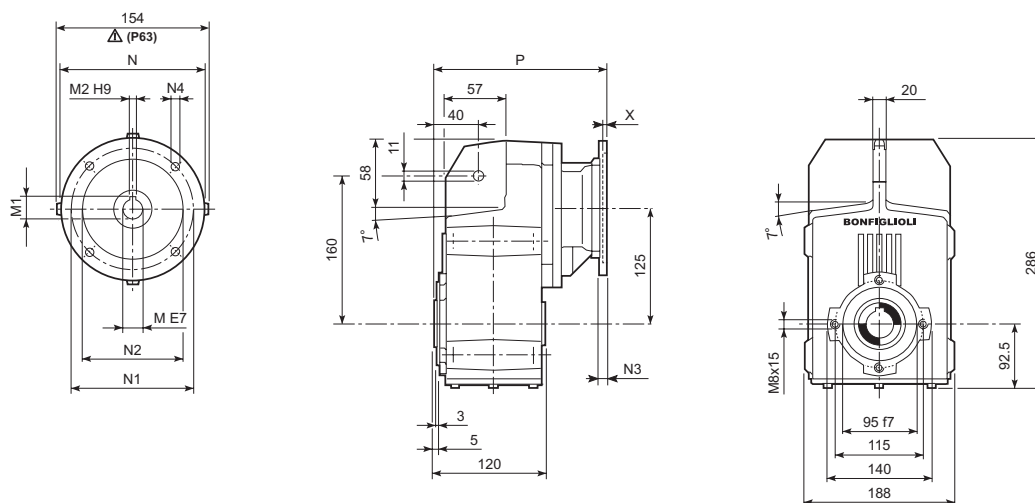
F 20...M



| | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|--------|-----|-----|-----|-------|-------|-----|----|-------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | AD | | LF | | R | AD | R | AD | |
| F 20 2 | S05 | M05 | 121 | 278.2 | 323.5 | 95 | 15 | 389.5 | 17 | 96 | 122 | 116 | 95 | |
| F 20 2 | S1 | M1 | 138 | 286.7 | 352.5 | 108 | 17 | 413.5 | 20 | 103 | 135 | 124 | 108 | |
| F 20 2 | S2 | M2S | 156 | 295.7 | 381.5 | 119 | 21 | 451.5 | 25 | 129 | 146 | 134 | 119 | |
| F 20 2 | S3 | M3S | 195 | 315.2 | 424.5 | 142 | 26 | 520.5 | 33 | 160 | 158 | 160 | 142 | |
| F 20 2 | S3 | M3L | 195 | 315.2 | 456.5 | 142 | 31 | 547.5 | 38 | 160 | 158 | 160 | 142 | |
| F 20 3 | S05 | M05 | 121 | 278.2 | 379 | 95 | 17 | 445 | 18 | 96 | 122 | 116 | 95 | |
| F 20 3 | S1 | M1 | 138 | 286.7 | 408 | 108 | 19 | 469 | 21 | 103 | 135 | 124 | 108 | |
| F 20 3 | S2 | M2S | 156 | 295.7 | 437 | 119 | 22 | 507 | 26 | 129 | 146 | 134 | 119 | |
| F 20 3 | S3 | M3S | 195 | 315.2 | 480 | 142 | 27 | 576 | 34 | 160 | 158 | 160 | 142 | |
| F 20 3 | S3 | M3L | 195 | 315.2 | 512 | 142 | 32 | 603 | 39 | 160 | 158 | 160 | 142 | |

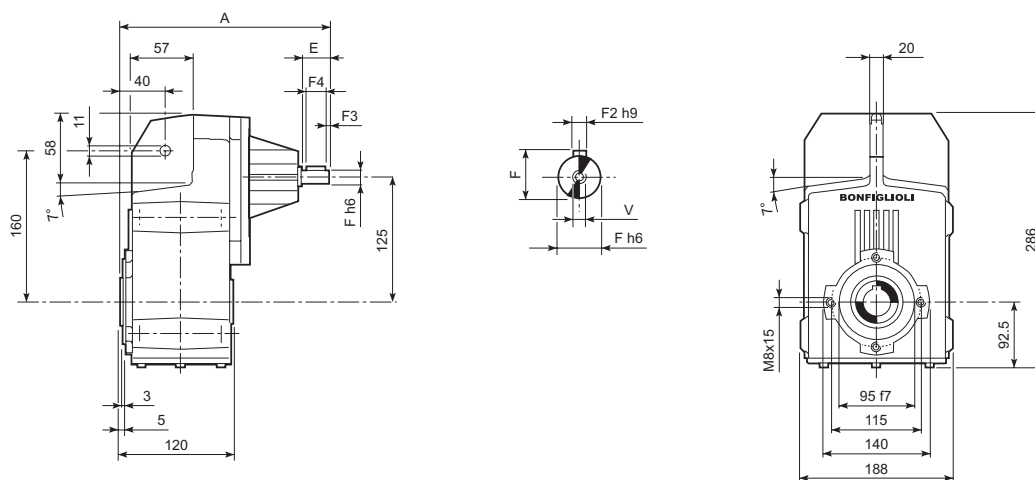


F 20...P(IEC)

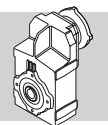


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|---------------|-------------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| | | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 197.5 | 12 |
| F 20 2 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 197.5 | 12 |
| F 20 2 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 197.5 | 12 |
| F 20 2 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 217 | 13 |
| F 20 2 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 217 | 12 |
| F 20 2 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 227 | 16 |
| F 20 2 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 227 | 16 |
| F 20 3 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 253 | 13 |
| F 20 3 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 253 | 13 |
| F 20 3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 272.5 | 14 |
| F 20 3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 272.5 | 14 |
| F 20 3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 282.5 | 18 |
| F 20 3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 282.5 | 18 |

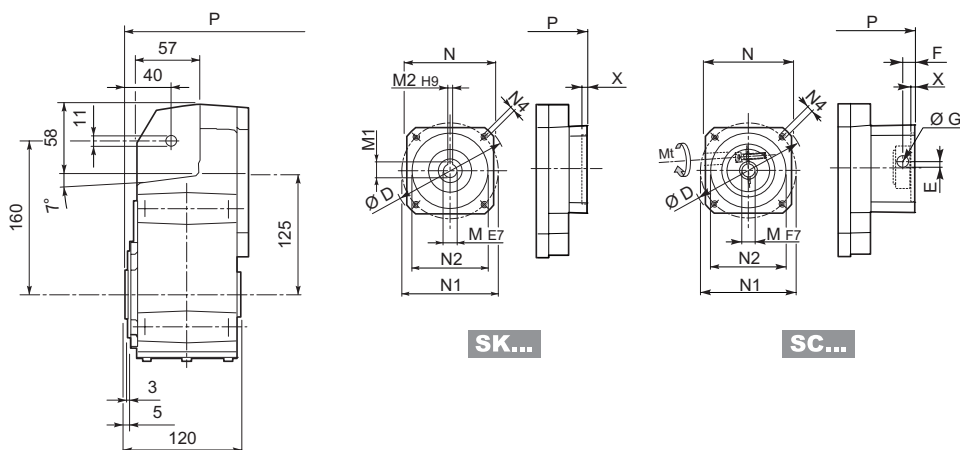
F 20...HS



| | | A | E | F | F1 | F2 | F3 | F4 | V | Kg |
|---------------|-----------|-------|----|----|------|----|-----|----|-------|------|
| | | 247.5 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 11.5 |
| F 20 2 | HS | 247.5 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 11.5 |
| F 20 3 | HS | 260 | 40 | 16 | 18 | 5 | 2.5 | 35 | M6x16 | 12.4 |

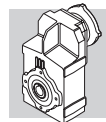


F 20...SK / SC



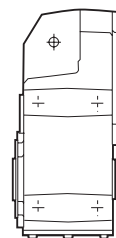
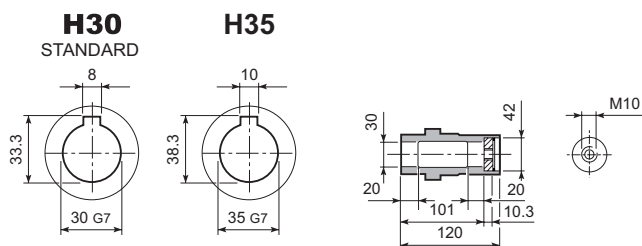
| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | 2x | | 3x | |
|----------|---------|-----|----|------|----|-----|-----|-----|-------|-----|-----|----|-------|----|
| | | | | | | | | | | | P | | P | |
| | | | | | | | | | | | | | | |
| F 20 2/3 | SK 60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 169 | 11 | 224.5 | 12 |
| F 20 2/3 | SK 60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 176 | 12 | 231.5 | 13 |
| F 20 2/3 | SK 80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 217 | 12 | 231.5 | 13 |
| F 20 2/3 | SK 80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 217 | 13 | 272.5 | 14 |
| F 20 2/3 | SK 95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 217 | 13 | 272.5 | 14 |
| F 20 2/3 | SK 95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 217 | 13 | 272.5 | 14 |
| F 20 2/3 | SK 95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 217 | 13 | 272.5 | 14 |
| F 20 2/3 | SK 110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 217 | 13 | 272.5 | 14 |
| F 20 2/3 | SK 110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 217 | 13 | 272.5 | 14 |

| | | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | 2x | | 3x | |
|----------|---------|----|-------|-----|------|------|-------|----|-----|-----|-----|-------|---|-------|----|-------|----|
| | | | | | | | | | | | | | | P | | P | |
| F 20 2/3 | SC 60A | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 196 | 12 | 251.5 | 13 |
| F 20 2/3 | SC 60B | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 196 | 13 | 251.5 | 14 |
| F 20 2/3 | SC 80A | M6 | 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 196 | 13 | 251.5 | 14 |
| F 20 2/3 | SC 80C | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 240.5 | 14 | 296 | 15 |
| F 20 2/3 | SC 95A | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 240.5 | 14 | 296 | 15 |
| F 20 2/3 | SC 95B | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 240.5 | 14 | 296 | 15 |
| F 20 2/3 | SC 95C | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 240.5 | 14 | 296 | 15 |
| F 20 2/3 | SC 110A | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 240.5 | 15 | 296 | 16 |
| F 20 2/3 | SC 110B | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 240.5 | 15 | 296 | 16 |

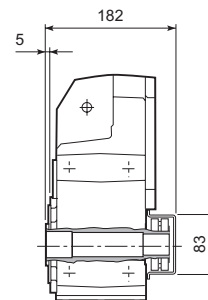
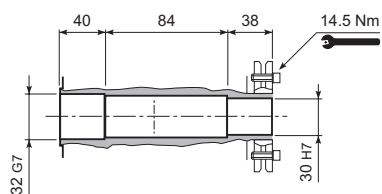


F 20

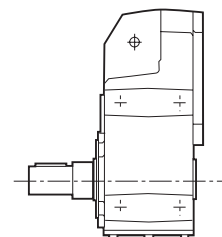
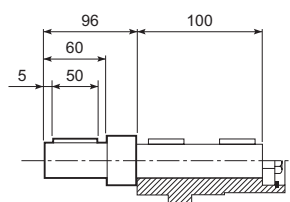
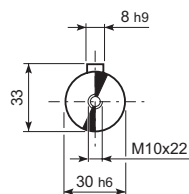
F 20...H



F 20...S

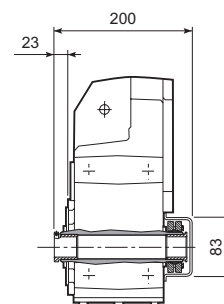
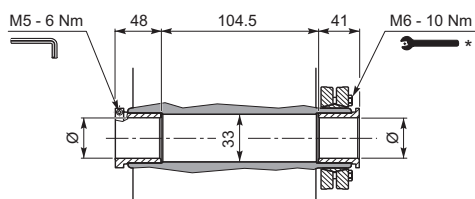


F 20...R

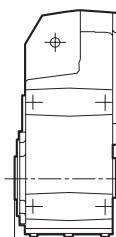
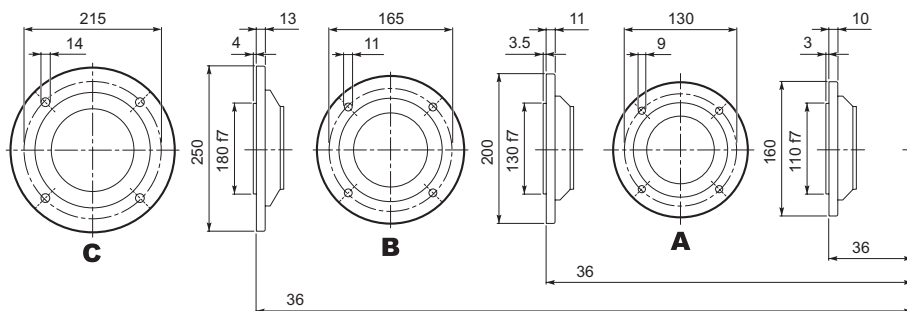


F 20...QF

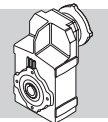
| | Ø |
|------|----|
| QF25 | 25 |
| QF30 | 30 |



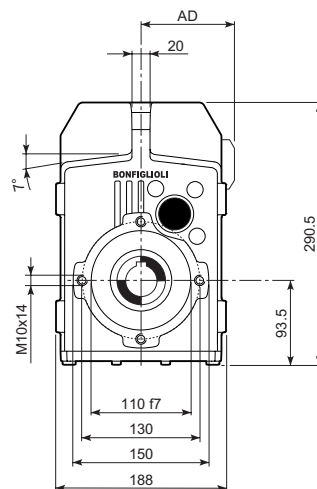
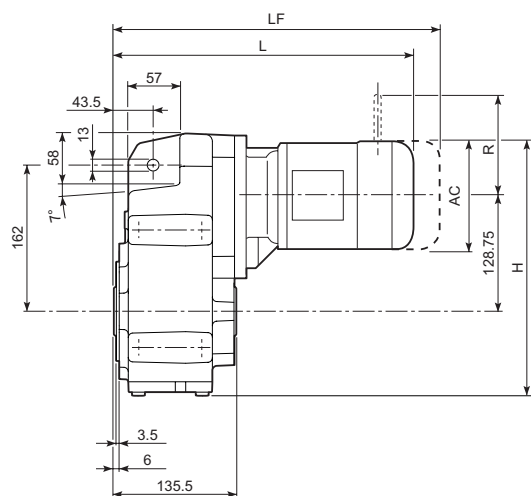
F 20...F...



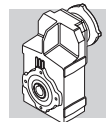
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



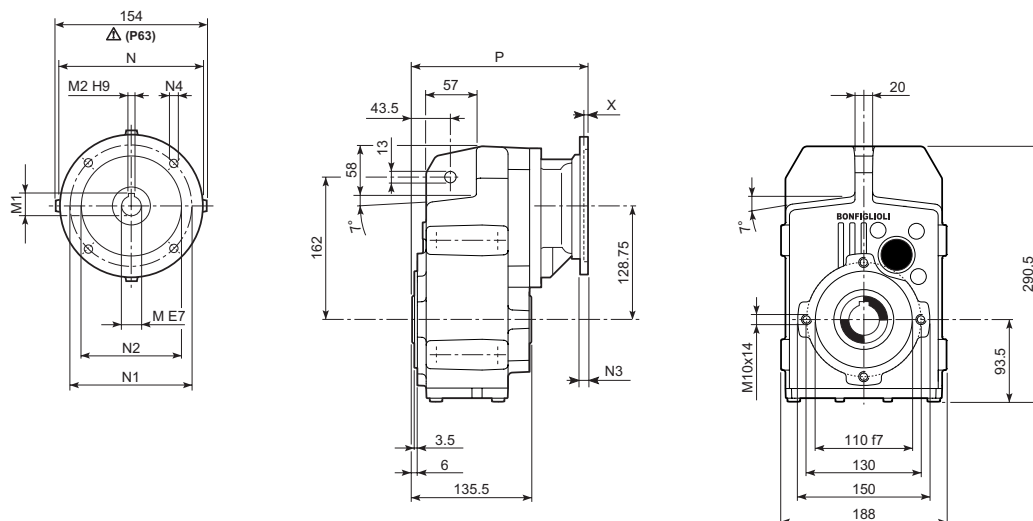
F 25...M



| | | | M...FD M...FA | | | | | M...FD | | M...FA | | | |
|----------|-----|-----|------------------|-------|-------|-----|----|--------|----|--------|-----|-----|-----|
| | | | AC | H | L | AD | LF | | R | AD | R | AD | |
| | | | | | | | | | | | | | |
| F 25 2/3 | S05 | M05 | 121 | 283 | 339 | 95 | 15 | 405 | 17 | 96 | 122 | 116 | 95 |
| F 25 2/3 | S1 | M1 | 138 | 291.5 | 368 | 108 | 17 | 429 | 20 | 103 | 135 | 124 | 108 |
| F 25 2/3 | S2 | M2S | 156 | 300.5 | 397 | 119 | 21 | 467 | 25 | 129 | 146 | 134 | 119 |
| F 25 2/3 | S3 | M3S | 195 | 320 | 440 | 142 | 26 | 536 | 33 | 160 | 158 | 160 | 142 |
| F 25 2/3 | S3 | M3L | 195 | 320 | 472 | 142 | 31 | 563 | 38 | 160 | 158 | 160 | 142 |
| F 25 4 | S05 | M05 | 121 | 283 | 394.5 | 95 | 17 | 460.5 | 18 | 96 | 122 | 116 | 95 |
| F 25 4 | S1 | M1 | 138 | 291.5 | 423.5 | 108 | 19 | 484.5 | 21 | 103 | 135 | 124 | 108 |
| F 25 4 | S2 | M2S | 156 | 300.5 | 452.5 | 119 | 22 | 522.5 | 26 | 129 | 146 | 134 | 119 |
| F 25 4 | S3 | M3S | 195 | 320 | 495.5 | 142 | 27 | 591.5 | 34 | 160 | 158 | 160 | 142 |
| F 25 4 | S3 | M3L | 195 | 320 | 527.5 | 142 | 32 | 618.5 | 39 | 160 | 158 | 160 | 142 |

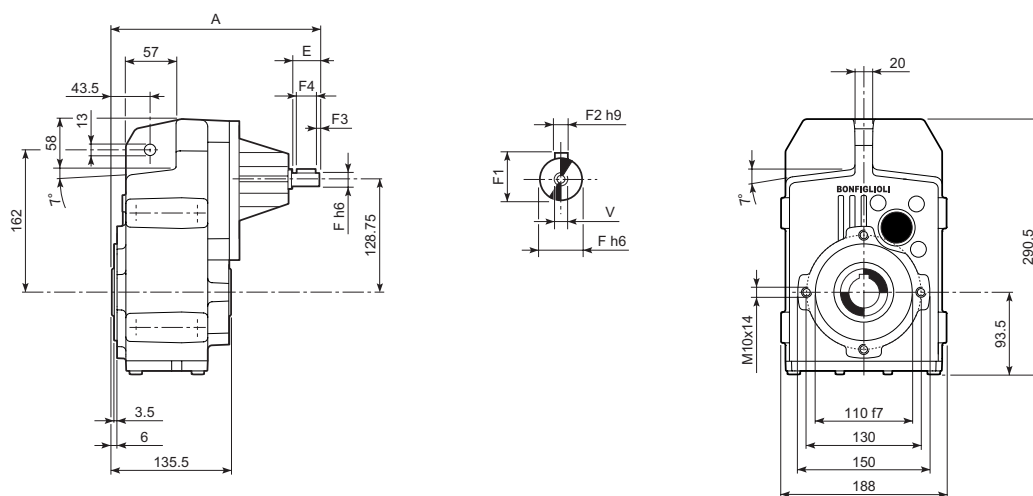


F 25...P(IEC)

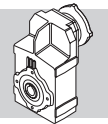


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|----------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| | | | | | | | | | | | | |
| F 25 2/3 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 213 | 12 |
| F 25 2/3 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 213 | 12 |
| F 25 2/3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 232.5 | 13 |
| F 25 2/3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 232.5 | 13 |
| F 25 2/3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 242.5 | 16 |
| F 25 2/3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 242.5 | 16 |
| F 25 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 268.5 | 13 |
| F 25 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 268.5 | 13 |
| F 25 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 288 | 14 |
| F 25 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 288 | 14 |
| F 25 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 298 | 18 |
| F 25 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 298 | 18 |

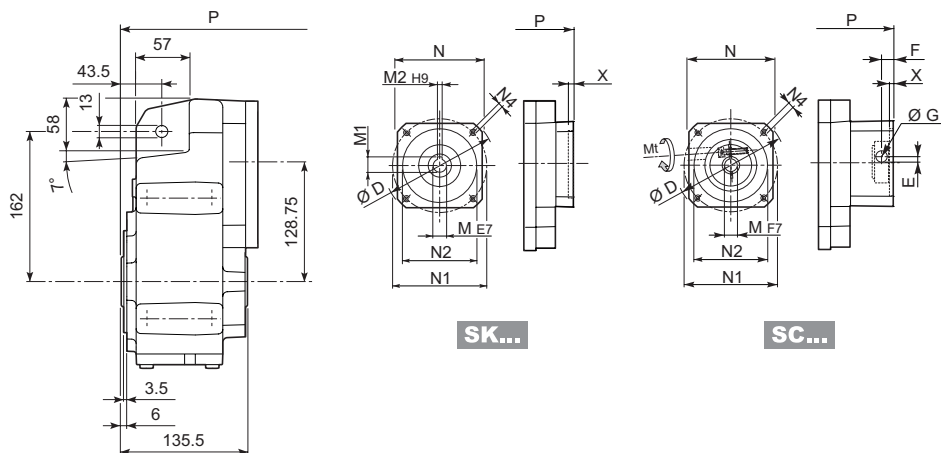
F 25...HS



| | | A | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|----|----|------|----|-----|----|-------|------|
| | | | | | | | | | | |
| F 25 2 | HS | 263 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 11.5 |
| F 25 3 | | 263 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 11.5 |
| F 25 4 | | 275.5 | 40 | 16 | 18 | 5 | 2.5 | 35 | M6x16 | 12.5 |

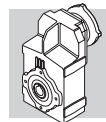


F 25...SK / SC



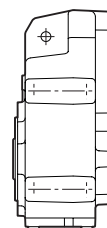
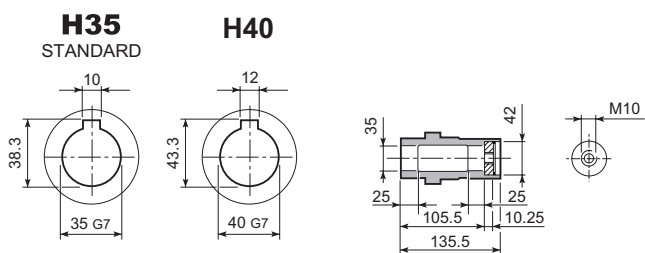
| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | 2/3x | | 4x | | |
|--|--|--------------------|-----|----|------|---|-----|-----|-----|-------|------|-------|----|-----|----|
| | | | | | | | | | | | P | | P | | |
| | | F 25 2/3/4 SK 60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 184.5 | 11 | 240 | 12 |
| | | F 25 2/3/4 SK 60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 191.5 | 12 | 247 | 13 |
| | | F 25 2/3/4 SK 80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 191.5 | 12 | 247 | 13 |
| | | F 25 2/3/4 SK 80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 232.5 | 13 | 288 | 14 |
| | | F 25 2/3/4 SK 95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 232.5 | 13 | 288 | 14 |
| | | F 25 2/3/4 SK 95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 232.5 | 13 | 288 | 14 |
| | | F 25 2/3/4 SK 95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 232.5 | 13 | 288 | 14 |
| | | F 25 2/3/4 SK 110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 232.5 | 13 | 288 | 14 |
| | | F 25 2/3/4 SK 110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 232.5 | 13 | 288 | 14 |

| | | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | 2/3x | | 4x | |
|--|--|--------------------|----------|-----|------|------|-------|----|-----|-----|-----|-------|---|-------|----|-------|----|
| | | | | | | | | | | | | | | P | | P | |
| | | F 25 2/3/4 SC 60A | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 211.5 | 12 | 267 | 13 |
| | | F 25 2/3/4 SC 60B | M6 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 211.5 | 13 | 267 | 14 |
| | | F 25 2/3/4 SC 80A | M6 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 211.5 | 13 | 267 | 14 |
| | | F 25 2/3/4 SC 80C | M6 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 256 | 14 | 311.5 | 15 |
| | | F 25 2/3/4 SC 95A | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 256 | 14 | 311.5 | 15 |
| | | F 25 2/3/4 SC 95B | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 256 | 14 | 311.5 | 15 |
| | | F 25 2/3/4 SC 95C | M6 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 256 | 14 | 311.5 | 15 |
| | | F 25 2/3/4 SC 110A | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 256 | 15 | 311.5 | 16 |
| | | F 25 2/3/4 SC 110B | M6 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 256 | 15 | 311.5 | 16 |

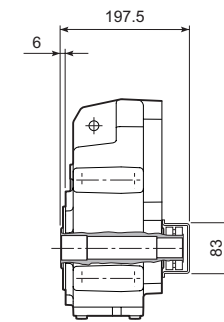
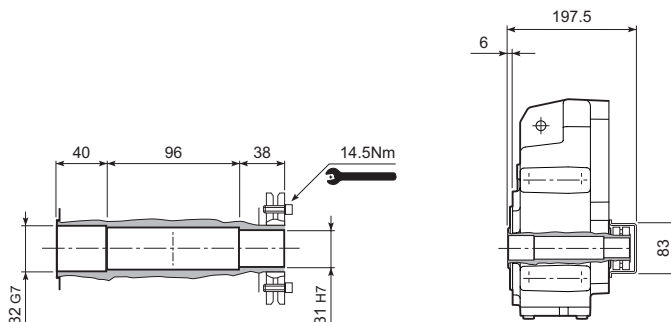


F 25

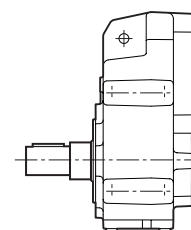
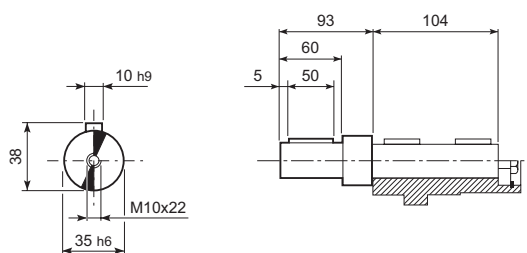
F 25...H



F 25...S

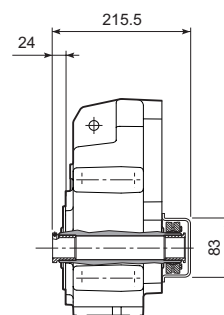
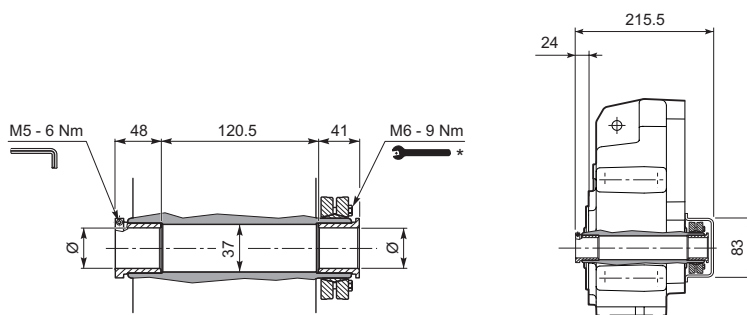


F 25...R

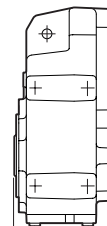
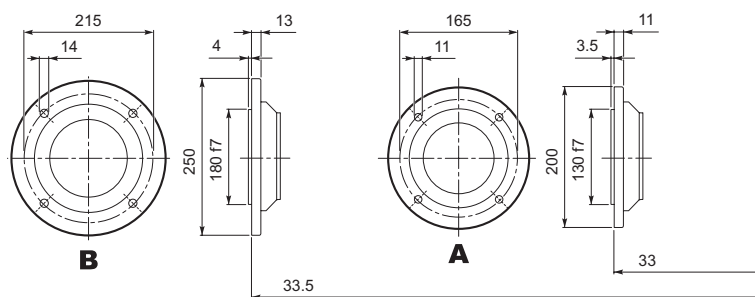


F 25...QF

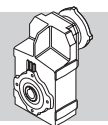
| | Ø |
|------|----|
| QF30 | 30 |
| QF32 | 32 |



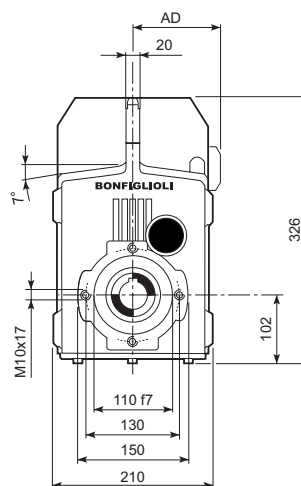
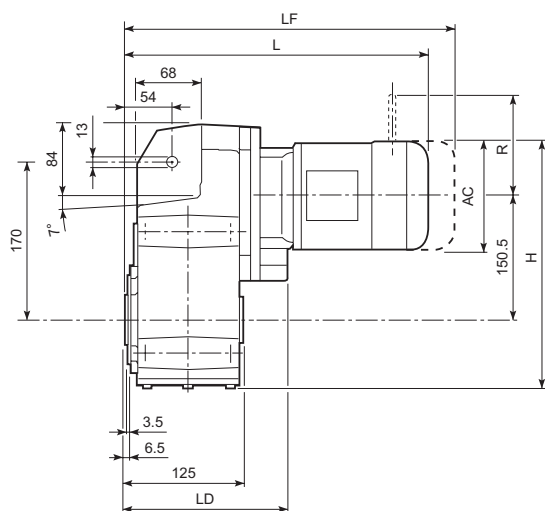
F 25...F...



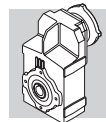
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



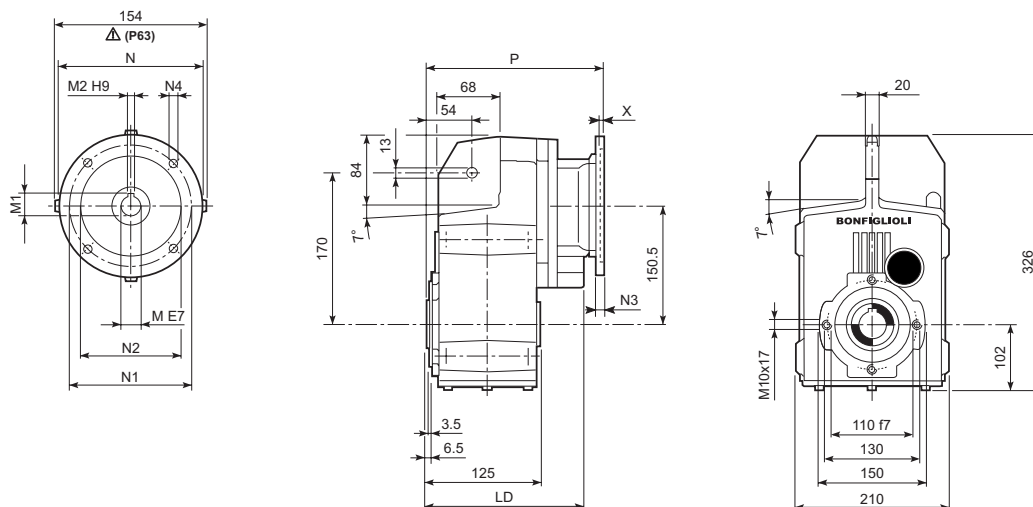
F 31...M



| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|----------|-----|-----|-----|-------|-------|-------|-----|----|-------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | LD | AD | | LF | | R | AD | R | AD | |
| F 31 2/3 | S1 | M1 | 138 | 321.3 | 380.5 | 183.5 | 108 | 22 | 441.5 | 25 | 103 | 135 | 124 | 108 | |
| F 31 2/3 | S2 | M2S | 156 | 330.3 | 409.5 | 195.5 | 119 | 26 | 479.5 | 30 | 129 | 146 | 134 | 119 | |
| F 31 2/3 | S3 | M3S | 195 | 349.8 | 452.5 | 205.5 | 142 | 31 | 548.5 | 38 | 160 | 158 | 160 | 142 | |
| F 31 2/3 | S3 | M3L | 195 | 349.8 | 484.5 | 205.5 | 142 | 38 | 575.5 | 45 | 160 | 158 | 160 | 142 | |
| F 31 2/3 | S4 | M4 | 258 | 381.3 | 592.5 | — | 193 | 72 | 701.5 | 79 | 204 | 210 | 200 | 193 | |
| F 31 2/3 | S4 | M4L | 258 | 381.3 | 592.5 | — | 193 | 78 | 701.5 | 85 | 204 | 210 | 200 | 193 | |
| F 31 4 | S05 | M05 | 121 | 312.8 | 409 | — | 95 | 20 | 475 | 22 | 96 | 122 | 116 | 95 | |
| F 31 4 | S1 | M1 | 138 | 321.3 | 438 | — | 108 | 22 | 499 | 25 | 103 | 135 | 124 | 108 | |
| F 31 4 | S2 | M2S | 156 | 330.3 | 467 | — | 119 | 26 | 537 | 31 | 129 | 146 | 134 | 119 | |
| F 31 4 | S3 | M3S | 195 | 349.8 | 510 | — | 142 | 31 | 606 | 39 | 160 | 158 | 160 | 142 | |
| F 31 4 | S3 | M3L | 195 | 349.8 | 542 | — | 142 | 38 | 633 | 46 | 160 | 158 | 160 | 142 | |

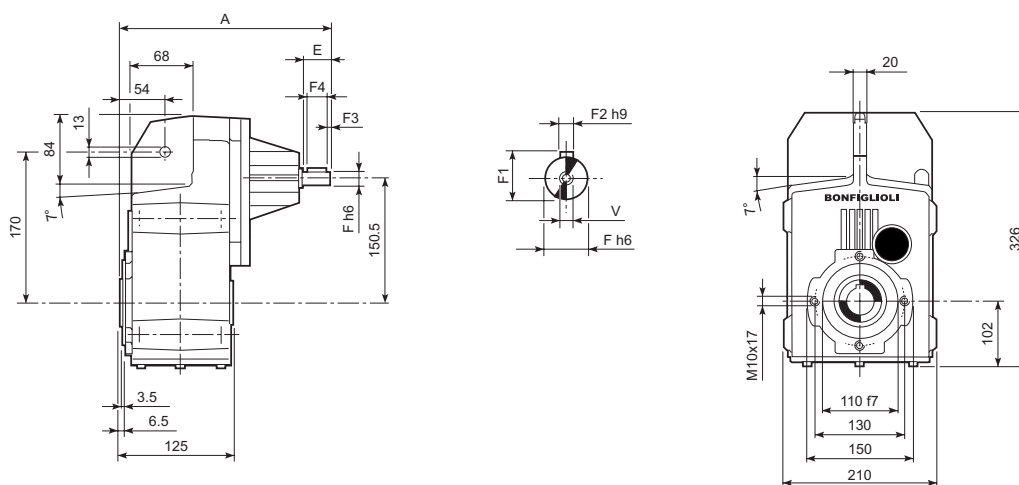


F 31...P(IEC)

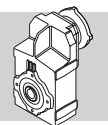


| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|----------|------|-------|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| | | | | | | | | | | | | | |
| F 31 2/3 | P63 | 195.5 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 225.5 | 17 |
| F 31 2/3 | P71 | 195.5 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 225.5 | 17 |
| F 31 2/3 | P80 | 205.5 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 245 | 18 |
| F 31 2/3 | P90 | 205.5 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 245 | 17 |
| F 31 2/3 | P100 | 205.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 255 | 21 |
| F 31 2/3 | P112 | 205.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 255 | 21 |
| F 31 2/3 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | — | 14 | 5 | 291.5 | 24 |
| F 31 4 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 283 | 17 |
| F 31 4 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 283 | 17 |
| F 31 4 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 302.5 | 18 |
| F 31 4 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 302.5 | 18 |
| F 31 4 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 312.5 | 22 |
| F 31 4 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 312.5 | 22 |

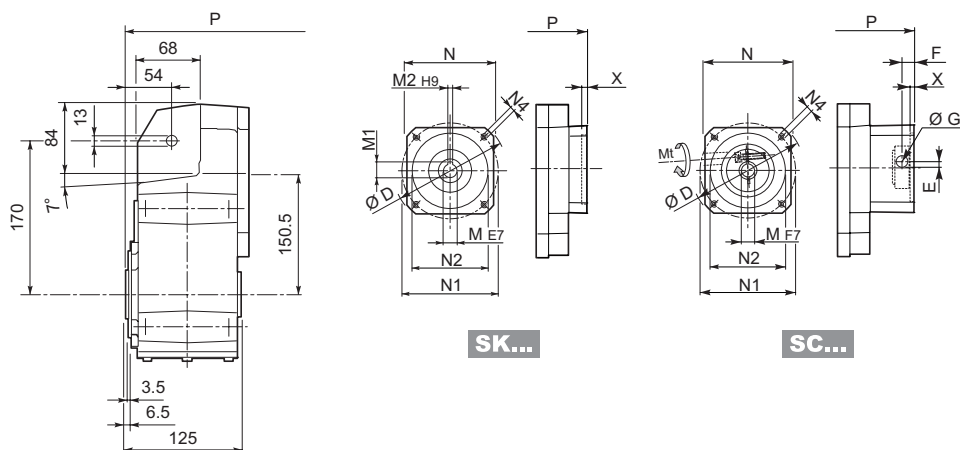
F 31...HS



| | | A | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|----|----|------|----|-----|----|-------|------|
| | | | | | | | | | | |
| F 31 2 | HS | 275.5 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 16.7 |
| F 31 3 | | 275.5 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 16.7 |
| F 31 4 | | 290 | 40 | 16 | 18 | 5 | 2.5 | 35 | M6x16 | 16.5 |



F 31...SK / SC

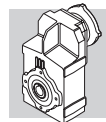


SK...

SC...

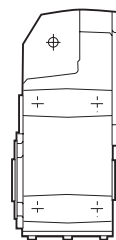
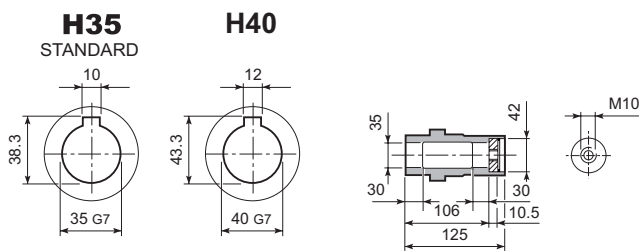
| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | 2/3x | | 4x | |
|------------|---------|-----|----|------|----|-----|-----|-----|--------|-----|------|----|-------|----|
| | | | | | | | | | | | P | | P | |
| | | | | | | | | | | | | | | |
| F 31 2/3/4 | SK 60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | 197 | 16 | 254.5 | 16 |
| F 31 2/3/4 | SK 60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | 204 | 17 | 261.5 | 17 |
| F 31 2/3/4 | SK 80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | 204 | 17 | 261.5 | 17 |
| F 31 2/3/4 | SK 80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 245 | 18 | 302.5 | 18 |
| F 31 2/3/4 | SK 95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 245 | 18 | 302.5 | 18 |
| F 31 2/3/4 | SK 95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 245 | 18 | 302.5 | 18 |
| F 31 2/3/4 | SK 95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 245 | 18 | 302.5 | 18 |
| F 31 2/3/4 | SK 110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 245 | 18 | 302.5 | 18 |
| F 31 2/3/4 | SK 110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 245 | 18 | 302.5 | 18 |
| F 31 2/3 | SK 130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 245 | 18 | — | — |

| | | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | 2/3x | | 4x | |
|------------|---------|----|-------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|----|-------|----|
| | | | | | | | | | | | | | | P | | P | |
| F 31 2/3/4 | SC 60A | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | 224 | 17 | 281.5 | 17 |
| F 31 2/3/4 | SC 60B | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | 224 | 18 | 281.5 | 18 |
| F 31 2/3/4 | SC 80A | M6 | 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | 224 | 18 | 281.5 | 18 |
| F 31 2/3/4 | SC 80C | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 268.5 | 19 | 326 | 19 |
| F 31 2/3/4 | SC 95A | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 268.5 | 19 | 326 | 19 |
| F 31 2/3/4 | SC 95B | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 268.5 | 19 | 326 | 19 |
| F 31 2/3/4 | SC 95C | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 268.5 | 19 | 326 | 19 |
| F 31 2/3/4 | SC 110A | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 268.5 | 20 | 326 | 20 |
| F 31 2/3/4 | SC 110B | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 268.5 | 20 | 326 | 20 |
| F 31 2/3 | SC 130A | M6 | 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 268.5 | 21 | — | — |

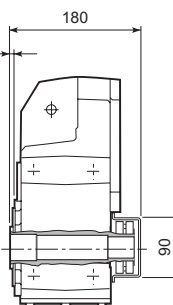
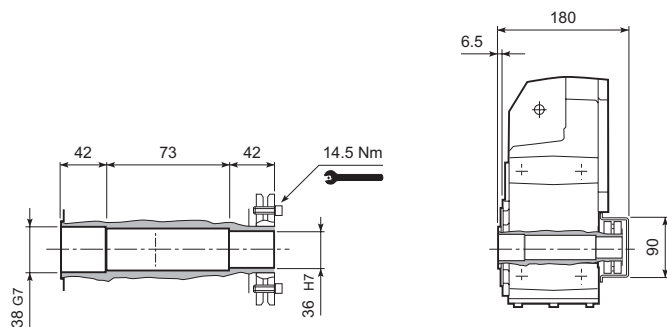


F 31

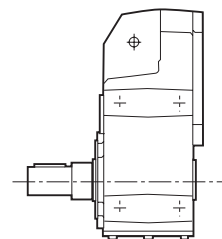
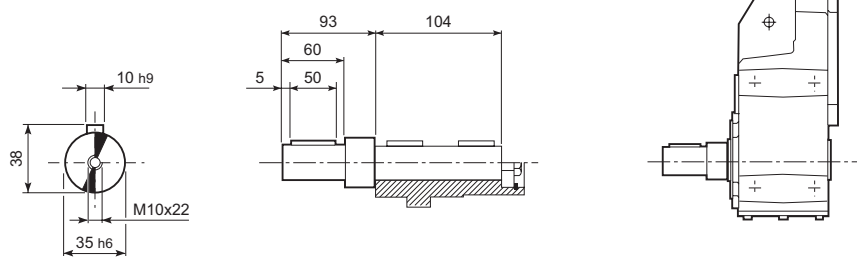
F 31...H



F 31...S

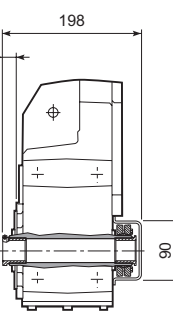
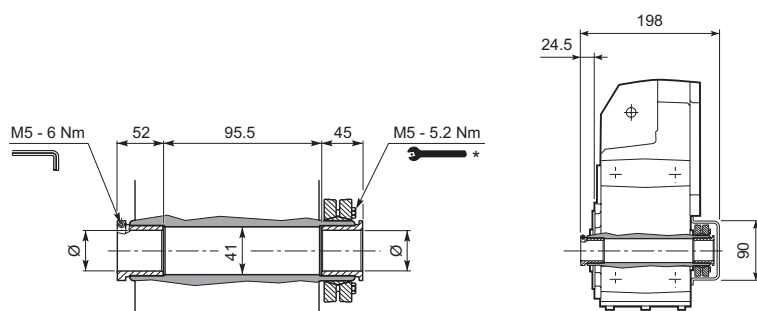


F 31...R

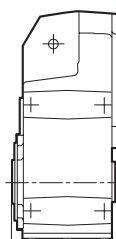
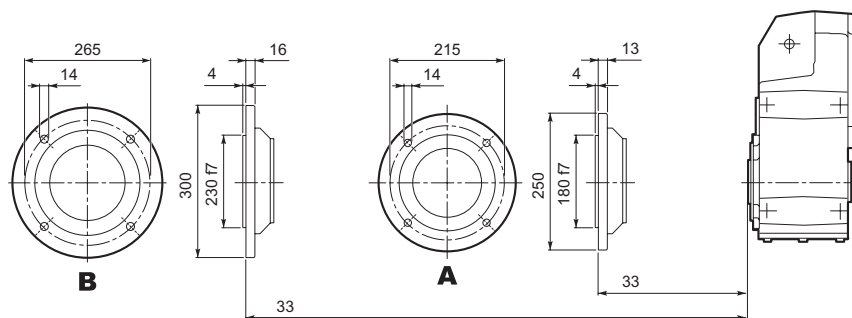


F 31...QF

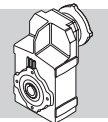
| | Ø |
|------|----|
| QF35 | 35 |
| QF40 | 40 |



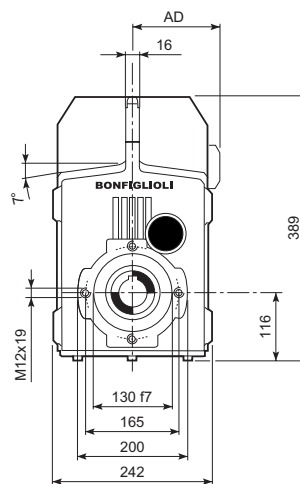
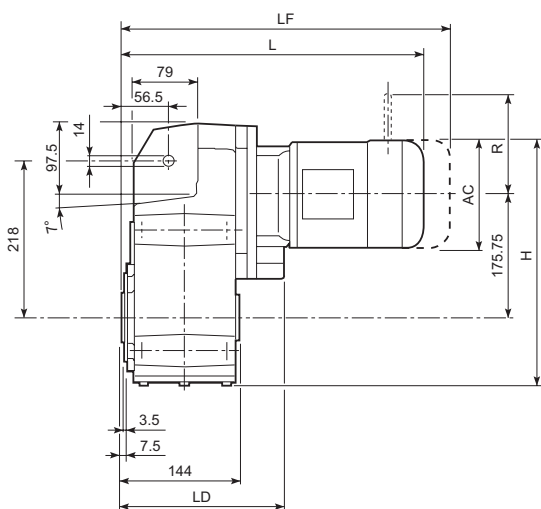
F 31...F...



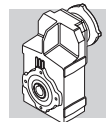
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



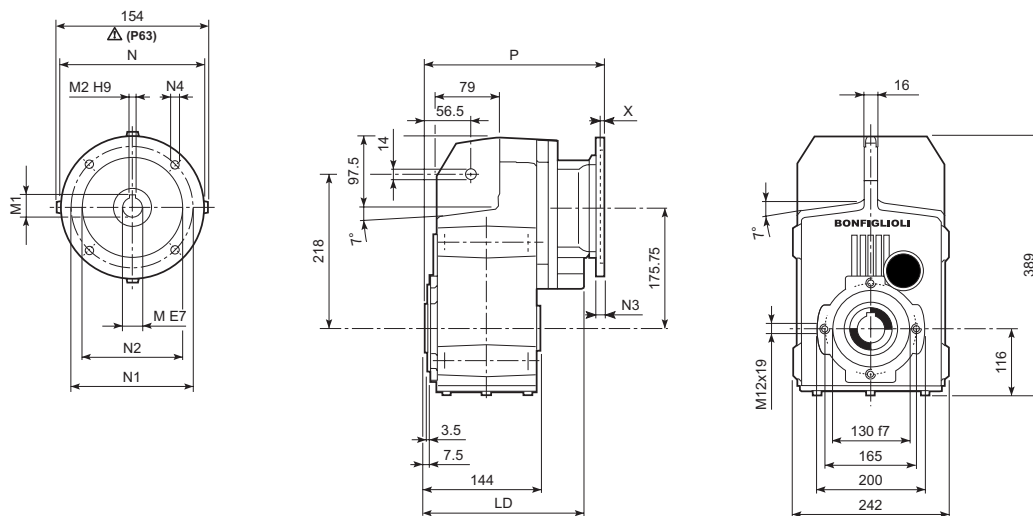
F 41...M



| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|----------|-----|------|-----|-------|-------|-------|-----|-----|-------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | LD | AD | Kg | LF | Kg | R | AD | R | AD | |
| F 41 2/3 | S1 | M1 | 138 | 360.8 | 401 | 199.5 | 108 | 46 | 462 | 48 | 103 | 135 | 124 | 108 | |
| F 41 2/3 | S2 | M2S | 156 | 369.8 | 430 | 215 | 119 | 49 | 500 | 53 | 129 | 146 | 134 | 119 | |
| F 41 2/3 | S3 | M3S | 195 | 389.3 | 473 | 231 | 142 | 54 | 569 | 62 | 160 | 158 | 160 | 142 | |
| F 41 2/3 | S3 | M3L | 195 | 389.3 | 505 | 231 | 142 | 62 | 596 | 69 | 160 | 158 | 160 | 142 | |
| F 41 2/3 | S4 | M4 | 258 | 420.8 | 613 | — | 193 | 96 | 722 | 114 | 226 | 210 | 217 | 193 | |
| F 41 2/3 | S4 | M4LC | 258 | 420.8 | 648 | — | 193 | 104 | 747 | 122 | 226 | 210 | 217 | 193 | |
| F 41 4 | S05 | M05 | 231 | 352.3 | 433.5 | — | 95 | 45 | 499.5 | 46 | 96 | 122 | 116 | 95 | |
| F 41 4 | S1 | M1 | 138 | 360.8 | 462.5 | — | 108 | 47 | 523.5 | 49 | 103 | 135 | 124 | 108 | |
| F 41 4 | S2 | M2S | 156 | 369.8 | 491.5 | — | 119 | 50 | 561.5 | 58 | 129 | 146 | 134 | 119 | |
| F 41 4 | S3 | M3S | 195 | 389.3 | 534.5 | — | 142 | 55 | 630.5 | 62 | 160 | 158 | 160 | 142 | |
| F 41 4 | S3 | M3L | 195 | 389.3 | 566.5 | — | 142 | 63 | 657.5 | 70 | 160 | 158 | 160 | 142 | |

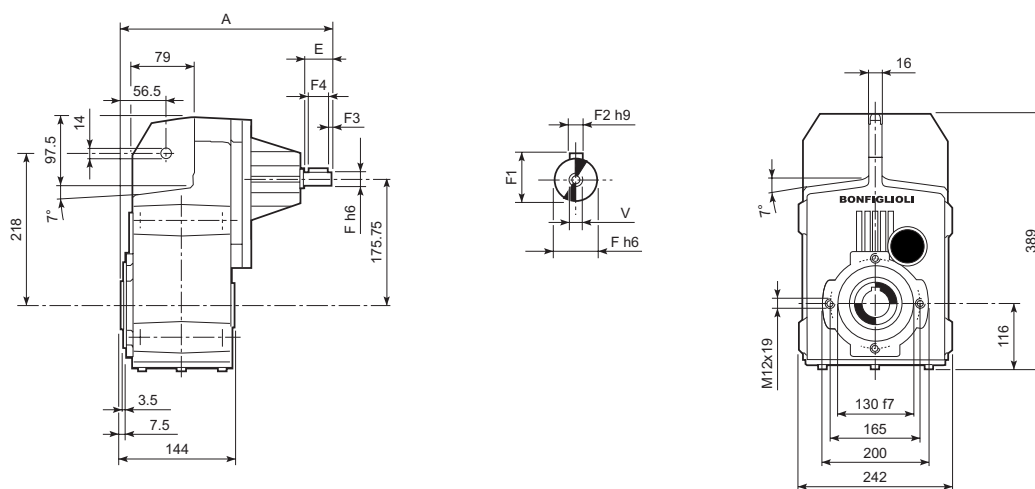


F 41...P(IEC)

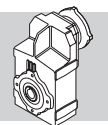


| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|----------|------|-----|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| | | | | | | | | | | | | | |
| F 41 2/3 | P63 | 215 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 246 | 42 |
| F 41 2/3 | P71 | 215 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 246 | 42 |
| F 41 2/3 | P80 | 231 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 265.5 | 43 |
| F 41 2/3 | P90 | 231 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 265.5 | 43 |
| F 41 2/3 | P100 | 231 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 275.5 | 47 |
| F 41 2/3 | P112 | 231 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 275.5 | 47 |
| F 41 2/3 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 312 | 50 |
| F 41 4 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 307.5 | 44 |
| F 41 4 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 307.5 | 44 |
| F 41 4 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 327 | 45 |
| F 41 4 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 327 | 45 |
| F 41 4 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 337 | 49 |
| F 41 4 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 337 | 49 |

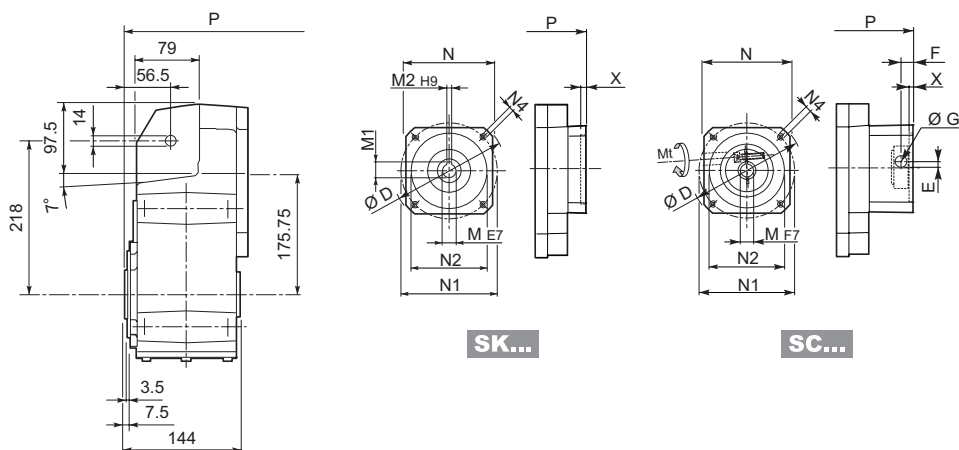
F 41...HS



| | | A | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|----|----|------|----|-----|----|-------|------|
| | | | | | | | | | | |
| F 41 2 | HS | 335.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 44.9 |
| F 41 3 | | 335.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 46.4 |
| F 41 4 | | 357.5 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 43.5 |

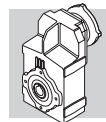


F 41...SK / SC



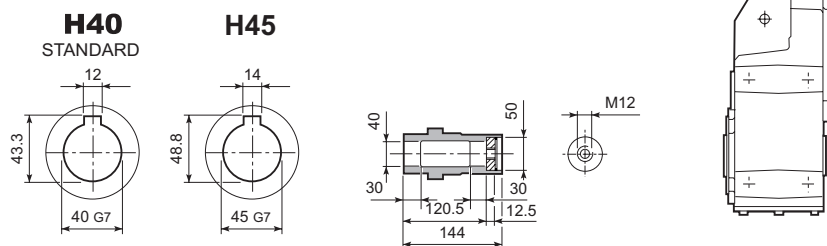
| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | 2/3x | | 4x | |
|------------|---------|-----|----|------|----|-----|-----|-----|--------|-----|-------|----|-----|----|
| | | | | | | | | | | | P | | P | |
| F 41 4 | SK 60A | 102 | 11 | 12.8 | 4 | 82 | 75 | 60 | M5x10 | 3.5 | — | — | 279 | 43 |
| F 41 4 | SK 60B | 102 | 14 | 16.3 | 5 | 82 | 75 | 60 | M5x10 | 4 | — | — | 286 | 44 |
| F 41 4 | SK 80A | 115 | 14 | 16.3 | 5 | 90 | 100 | 80 | M6x12 | 4 | — | — | 286 | 44 |
| F 41 2/3 | SK 80B | 120 | 14 | 16.3 | 5 | 96 | 100 | 80 | M6x12 | 4 | 265.5 | 43 | — | — |
| F 41 2/3/4 | SK 80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 265.5 | 43 | 327 | 45 |
| F 41 2/3/4 | SK 95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 265.5 | 43 | 327 | 45 |
| F 41 2/3/4 | SK 95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 265.5 | 43 | 327 | 45 |
| F 41 2/3/4 | SK 95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 265.5 | 43 | 327 | 45 |
| F 41 2/3/4 | SK 110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 265.5 | 43 | 327 | 45 |
| F 41 2/3/4 | SK 110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 265.5 | 43 | 327 | 45 |
| F 41 2/3 | SK 130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 265.5 | 45 | — | — |
| F 41 2/3 | SK 130B | 189 | 32 | 35.3 | 10 | 160 | 165 | 130 | M10x20 | 5 | 312 | 47 | — | — |
| F 41 2/3 | SK 180A | 240 | 32 | 35.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 312 | 47 | — | — |
| F 41 2/3 | SK 180B | 240 | 38 | 41.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 312 | 47 | — | — |

| | | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | 2/3x | | 4x | |
|------------|---------|----|-------|-----|------|------|-------|----|-----|-----|-----|--------|---|------|----|-------|----|
| | | | | | | | | | | | | | | P | | P | |
| F 41 4 | SC 60A | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 11 | 82 | 75 | 60 | M5x10 | 4 | — | — | 306 | 44 |
| F 41 4 | SC 60B | M6 | 15 Nm | 102 | 7 | 12.5 | 12.5 | 14 | 82 | 75 | 60 | M5x10 | 4 | — | — | 306 | 45 |
| F 41 4 | SC 80A | M6 | 15 Nm | 115 | 6 | 12.5 | 12.5 | 14 | 90 | 100 | 80 | M6x12 | 4 | — | — | 306 | 45 |
| F 41 2/3 | SC 80B | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 14 | 96 | 100 | 80 | M6x12 | 4 | 289 | 44 | — | — |
| F 41 2/3/4 | SC 80C | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 289 | 44 | 350.5 | 46 |
| F 41 2/3/4 | SC 95A | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 289 | 44 | 350.5 | 46 |
| F 41 2/3/4 | SC 95B | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 289 | 44 | 350.5 | 46 |
| F 41 2/3/4 | SC 95C | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 289 | 44 | 350.5 | 46 |
| F 41 2/3/4 | SC 110A | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 289 | 45 | 350.5 | 47 |
| F 41 2/3/4 | SC 110B | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 289 | 45 | 350.5 | 47 |
| F 41 2/3 | SC 130A | M6 | 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 289 | 46 | — | — |
| F 41 2/3 | SC 130B | M8 | 36 Nm | 189 | 20 | 17 | 17.75 | 32 | 160 | 165 | 130 | M10x20 | 5 | 335 | 50 | — | — |
| F 41 2/3 | SC 180A | M8 | 36 Nm | 240 | 20 | 17.5 | 17.75 | 32 | 192 | 215 | 180 | M12x24 | 5 | 339 | 50 | — | — |
| F 41 2/3 | SC 180B | M8 | 36 Nm | 240 | 20 | 17.5 | 17.75 | 38 | 192 | 215 | 180 | M12x24 | 5 | 339 | 50 | — | — |

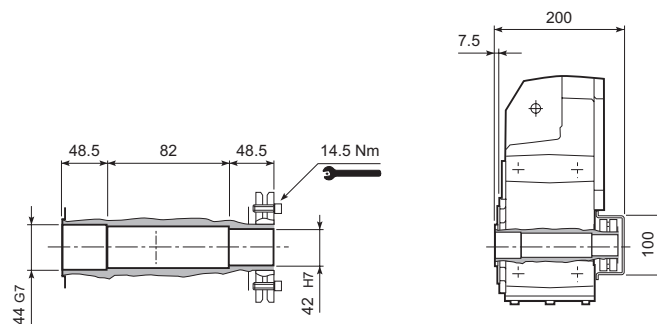


F 41

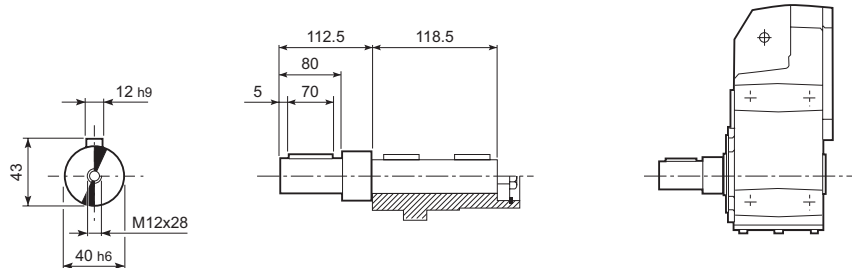
F 41...H



F 41...S

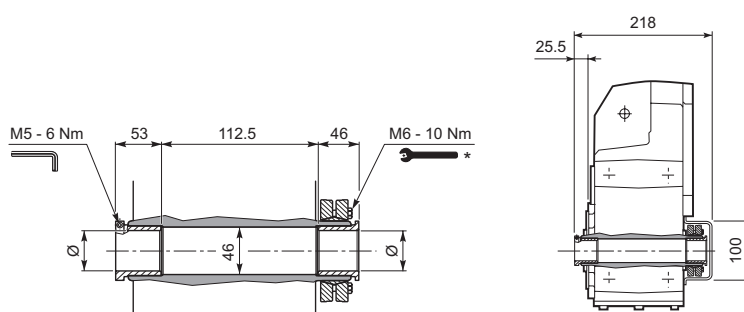


F 41...R

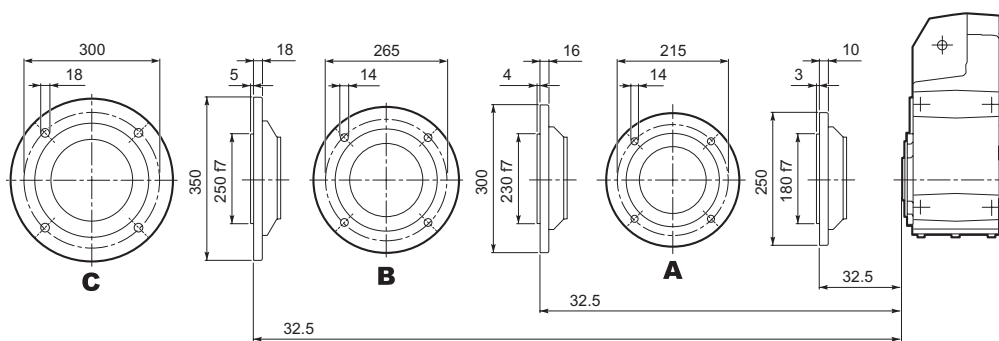


F 41...QF

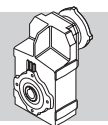
| | Ø |
|------|----|
| QF42 | 42 |
| QF45 | 45 |



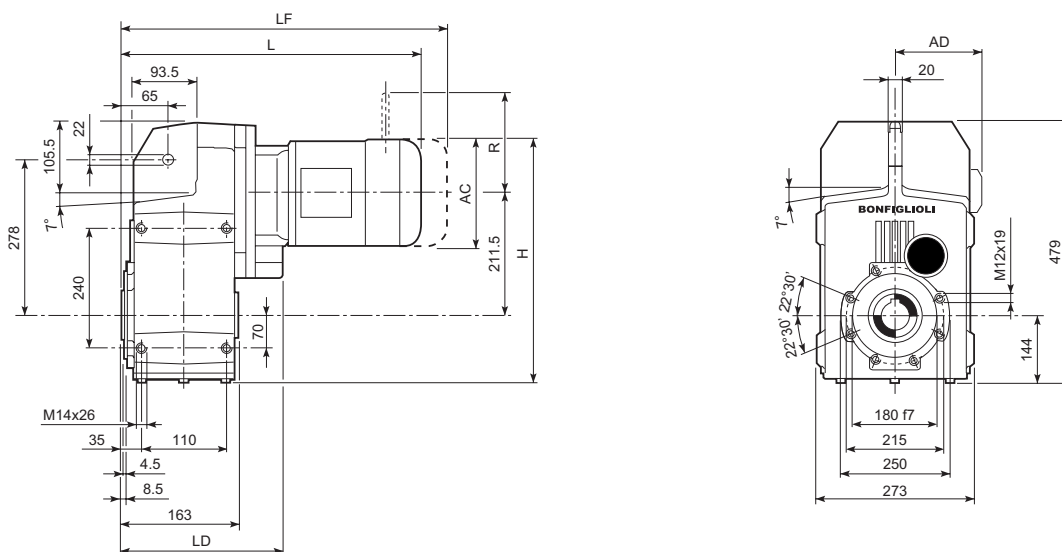
F 41...F...



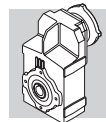
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



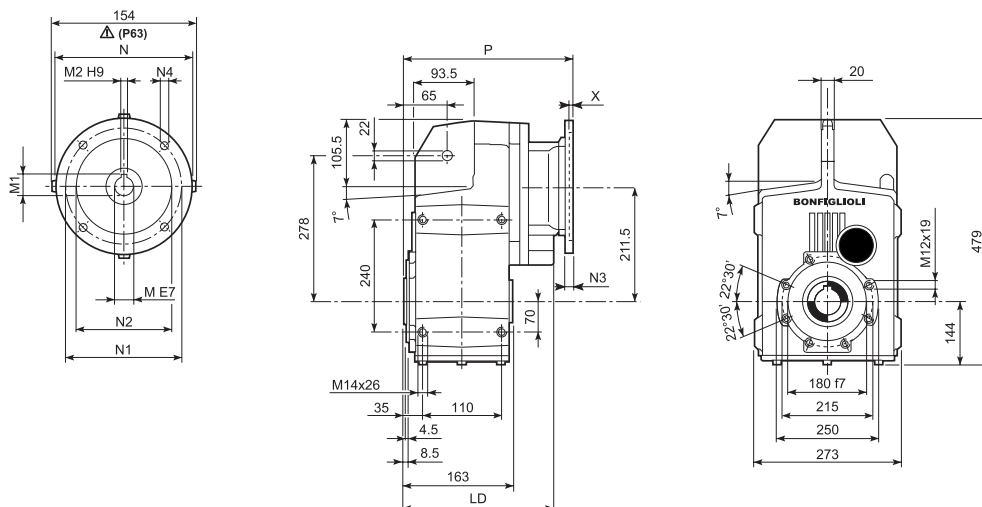
F 51...M



| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|----------|----|------|-----|-------|-------|-----|-----|-----|-------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | LD | AD | | LF | | R | AD | R | AD | |
| F 51 2/3 | S1 | M1 | 138 | 424 | 423 | — | 108 | 73 | 484 | 76 | 103 | 135 | 124 | 108 | |
| F 51 2/3 | S2 | M2S | 156 | 433 | 452 | 238 | 119 | 73 | 522 | 76 | 129 | 146 | 134 | 119 | |
| F 51 2/3 | S3 | M3S | 195 | 452.5 | 495 | 253 | 142 | 77 | 591 | 85 | 160 | 158 | 160 | 142 | |
| F 51 2/3 | S3 | M3L | 195 | 452.5 | 527 | 253 | 142 | 85 | 618 | 92 | 160 | 158 | 160 | 142 | |
| F 51 2/3 | S4 | M4 | 258 | 484 | 635 | 238 | 193 | 119 | 744 | 137 | 226 | 210 | 217 | 193 | |
| F 51 2/3 | S4 | M4LC | 258 | 484 | 670 | 238 | 193 | 127 | 769 | 145 | 226 | 210 | 217 | 193 | |
| F 51 2/3 | S5 | M5S | 310 | 510 | 721.5 | — | 245 | 153 | 861.5 | 188 | 266 | 245 | 247 | 245 | |
| F 51 2/3 | S5 | M5L | 310 | 510 | 765.5 | — | 245 | 169 | 905.5 | 204 | 266 | 245 | 247 | 245 | |
| F 51 4 | S1 | M1 | 138 | 424 | 494.5 | — | 108 | 75 | 555.5 | 78 | 103 | 135 | 124 | 108 | |
| F 51 4 | S2 | M2S | 156 | 433 | 523.5 | — | 119 | 79 | 593.5 | 83 | 129 | 146 | 134 | 119 | |
| F 51 4 | S3 | M3S | 195 | 452.5 | 566.5 | — | 142 | 84 | 662.5 | 91 | 160 | 158 | 160 | 142 | |
| F 51 4 | S3 | M3L | 195 | 452.5 | 598.5 | — | 142 | 91 | 689.5 | 98 | 160 | 158 | 160 | 142 | |

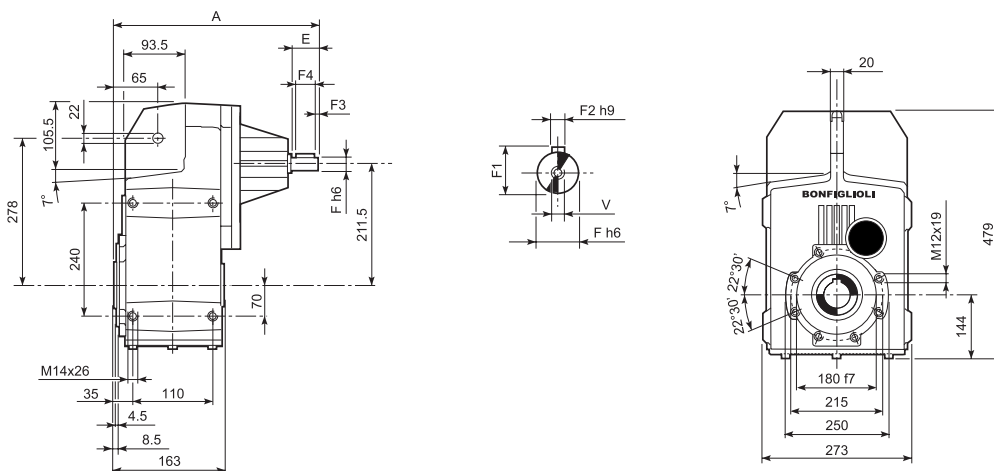


F 51...P(IEC)

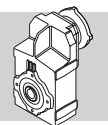


| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | |
|----------|------|-----|----|------|----|-----|-----|-----|----|--------|-----|-------|----|
| F 51 2/3 | P63 | 238 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 268 | 65 |
| F 51 2/3 | P71 | 238 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 268 | 65 |
| F 51 2/3 | P80 | 253 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 287.5 | 67 |
| F 51 2/3 | P90 | 253 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 287.5 | 67 |
| F 51 2/3 | P100 | 238 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 297.5 | 71 |
| F 51 2/3 | P112 | 238 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 297.5 | 71 |
| F 51 2/3 | P132 | 238 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 334 | 74 |
| F 51 2/3 | P160 | — | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 384.5 | 78 |
| F 51 2/3 | P180 | — | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 384.5 | 78 |
| F 51 4 | P63 | — | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 339.5 | 70 |
| F 51 4 | P71 | — | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 339.5 | 70 |
| F 51 4 | P80 | — | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 359 | 71 |
| F 51 4 | P90 | — | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 359 | 71 |
| F 51 4 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 369 | 75 |
| F 51 4 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 369 | 75 |
| F 51 4 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 405.5 | 78 |

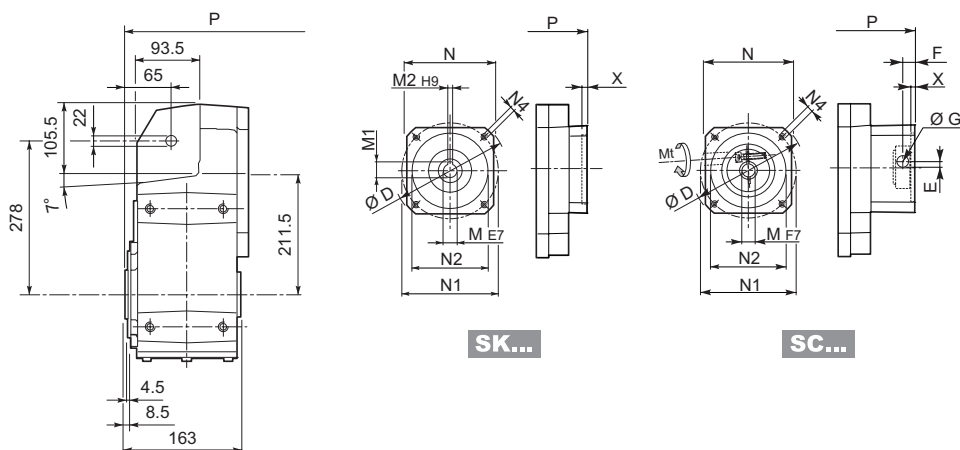
F 51...HS



| | | A | E | F | F1 | F2 | F3 | F4 | V | |
|--------|----|-------|----|----|------|----|-----|----|-------|----|
| F 51 2 | HS | 357.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 65 |
| F 51 3 | | 357.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 68 |
| F 51 4 | | 389.5 | 40 | 19 | 21.5 | 6 | 2.5 | 35 | M6x16 | 70 |



F 51...SK / SC

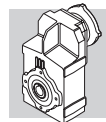


SK...

SC...

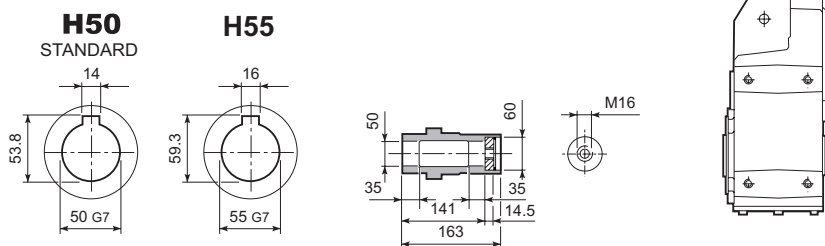
| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | 2/3x | | 4x | |
|------------|---------|-----|----|------|----|-----|-----|-----|--------|---|-------|----|-----|----|
| | | | | | | | | | | | P | | P | |
| | | | | | | | | | | | | | | |
| F 51 2/3 | SK 80B | 120 | 14 | 16.3 | 5 | 96 | 100 | 80 | M6x12 | 4 | 287.5 | 67 | — | — |
| F 51 2/3/4 | SK 80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 287.5 | 67 | 359 | 71 |
| F 51 2/3/4 | SK 95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 287.5 | 67 | 359 | 71 |
| F 51 2/3/4 | SK 95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 287.5 | 67 | 359 | 71 |
| F 51 2/3/4 | SK 95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 287.5 | 67 | 359 | 71 |
| F 51 2/3/4 | SK 110A | 150 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 287.5 | 67 | 359 | 71 |
| F 51 2/3/4 | SK 110B | 150 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 287.5 | 67 | 359 | 71 |
| F 51 2/3/4 | SK 130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 287.5 | 69 | 359 | 73 |
| F 51 2/3 | SK 130B | 189 | 32 | 35.3 | 10 | 160 | 165 | 130 | M10x20 | 5 | 334 | 75 | — | — |
| F 51 2/3 | SK 180A | 240 | 32 | 35.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 334 | 75 | — | — |
| F 51 2/3 | SK 180B | 240 | 38 | 41.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 334 | 75 | — | — |

| | | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | 2/3x | | 4x | |
|------------|---------|----|-------|-----|------|------|-------|----|-----|-----|-----|--------|---|------|----|-------|----|
| | | | | | | | | | | | | | | P | | P | |
| F 51 2/3 | SC 80B | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 14 | 96 | 100 | 80 | M6x12 | 4 | 311 | 70 | — | — |
| F 51 2/3/4 | SC 80C | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 311 | 70 | 382.5 | 74 |
| F 51 2/3/4 | SC 95A | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 311 | 70 | 382.5 | 74 |
| F 51 2/3/4 | SC 95B | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 311 | 70 | 382.5 | 74 |
| F 51 2/3/4 | SC 95C | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 311 | 70 | 382.5 | 74 |
| F 51 2/3/4 | SC 110A | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 311 | 71 | 382.5 | 75 |
| F 51 2/3/4 | SC 110B | M6 | 15 Nm | 150 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 311 | 71 | 382.5 | 75 |
| F 51 2/3/4 | SC 130A | M6 | 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 311 | 72 | 382.5 | 76 |
| F 51 2/3 | SC 130B | M8 | 36 Nm | 189 | 20 | 17 | 17.75 | 32 | 160 | 165 | 130 | M10x20 | 5 | 357 | 75 | — | — |
| F 51 2/3 | SC 180A | M8 | 36 Nm | 240 | 20 | 17.5 | 17.75 | 32 | 192 | 215 | 180 | M12x24 | 5 | 361 | 75 | — | — |
| F 51 2/3 | SC 180B | M8 | 36 Nm | 240 | 20 | 17.5 | 17.75 | 38 | 192 | 215 | 180 | M12x24 | 5 | 361 | 75 | — | — |

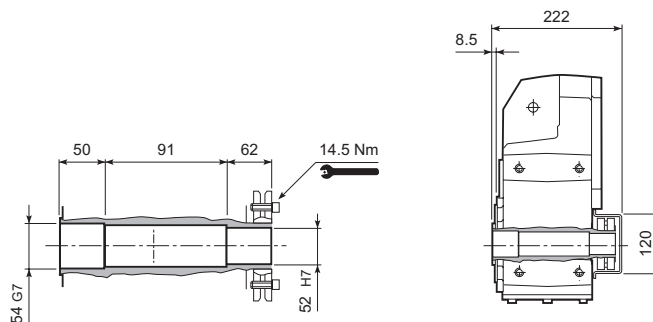


F 51

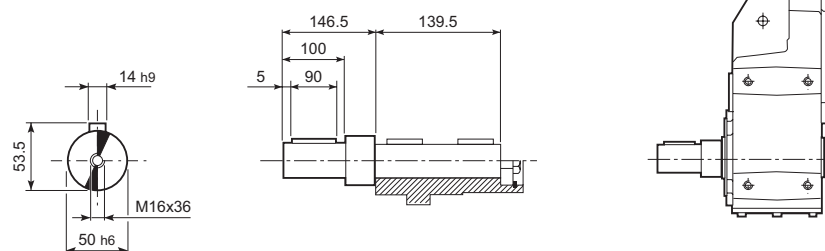
F 51...H



F 51...S

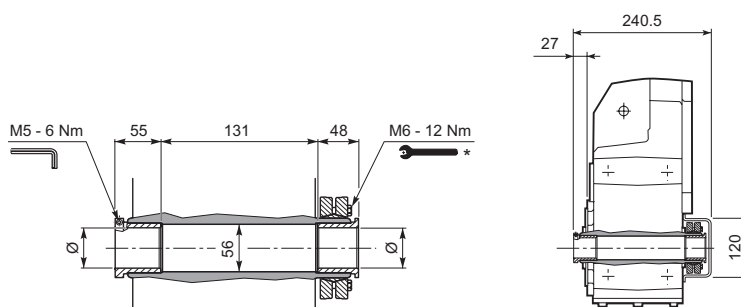


F 51...R

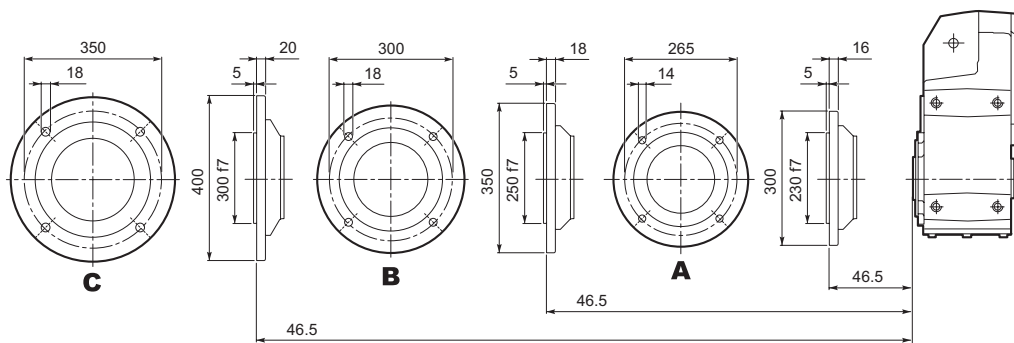


F 51...QF

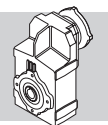
| | Ø |
|------|----|
| QF50 | 50 |
| QF55 | 55 |



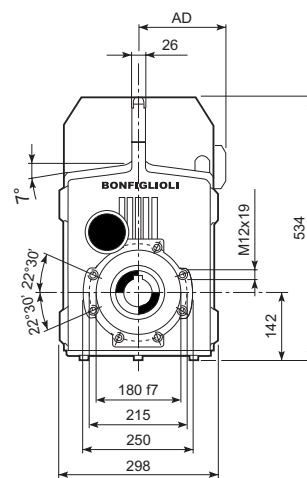
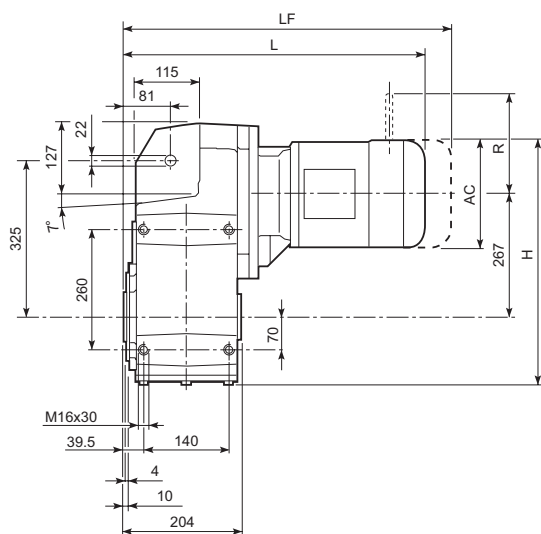
F 51...F...



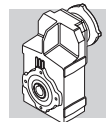
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



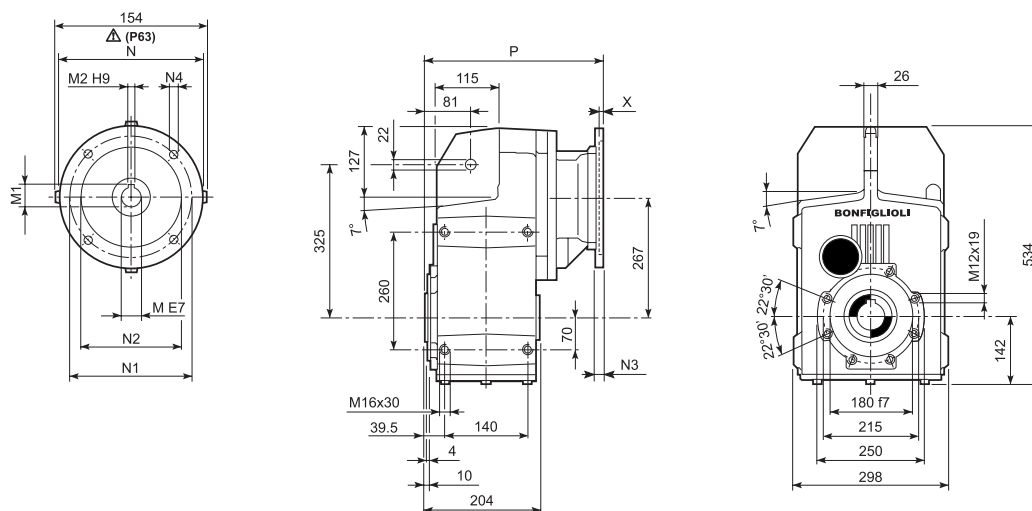
F 60...M



| | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|--------|----|------|-----|-------|-------|-----|-----|------------------|-----|--------|-----|--------|-----|
| | | | AC | H | L | AD | | LF | | R | AD | R | AD |
| F 60 3 | S2 | M2S | 156 | 487 | 486.5 | 119 | 114 | 556.5 | 121 | 129 | 146 | 134 | 119 |
| F 60 3 | S3 | M3S | 195 | 506.5 | 529.5 | 142 | 114 | 625.5 | 122 | 160 | 158 | 160 | 142 |
| F 60 3 | S3 | M3L | 195 | 506.5 | 561.5 | 142 | 122 | 652.5 | 129 | 160 | 158 | 160 | 142 |
| F 60 3 | S4 | M4 | 258 | 538 | 669.5 | 193 | 156 | 777.5 | 174 | 226 | 210 | 217 | 193 |
| F 60 3 | S4 | M4LC | 258 | 538 | 704.5 | 193 | 164 | 802.5 | 182 | 226 | 210 | 217 | 193 |
| F 60 3 | S5 | M5S | 310 | 564 | 756 | 245 | 184 | 896 | 214 | 266 | 245 | 247 | 245 |
| F 60 3 | S5 | M5L | 310 | 564 | 800 | 245 | 200 | 940 | 230 | 266 | 245 | 247 | 245 |
| F 60 4 | S1 | M1 | 138 | 478 | 528 | 108 | 113 | 589 | 116 | 103 | 135 | 124 | 108 |
| F 60 4 | S2 | M2S | 156 | 487 | 557 | 119 | 117 | 627 | 121 | 129 | 146 | 134 | 119 |
| F 60 4 | S3 | M3S | 195 | 506.5 | 600 | 142 | 122 | 696 | 129 | 160 | 158 | 160 | 142 |
| F 60 4 | S3 | M3L | 195 | 506.5 | 632 | 142 | 129 | 723 | 136 | 160 | 158 | 160 | 142 |

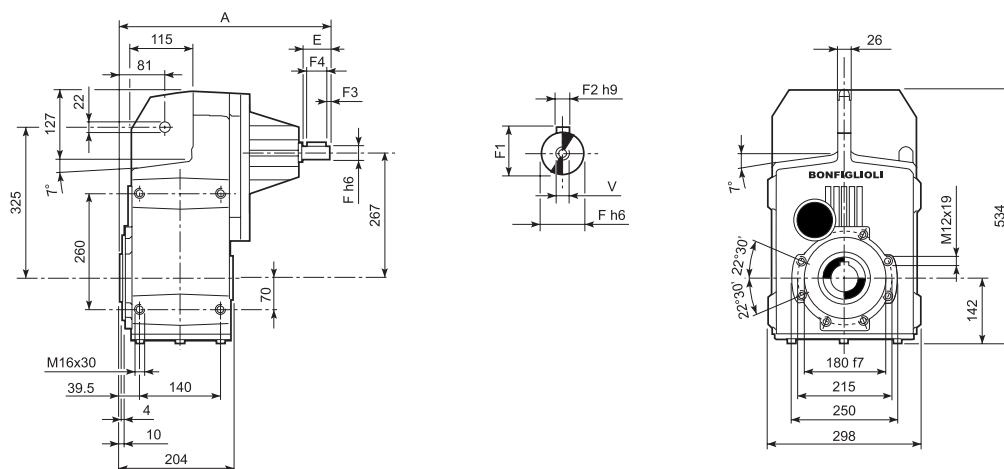


F 60...P(IEC)

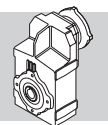


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| | | | | | | | | | | | | |
| F 60 3 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 302.5 | 103 |
| F 60 3 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 302.5 | 103 |
| F 60 3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 322 | 104 |
| F 60 3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 322 | 104 |
| F 60 3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 331 | 108 |
| F 60 3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 331 | 108 |
| F 60 3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 367.5 | 111 |
| F 60 3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 419 | 116 |
| F 60 3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 419 | 116 |
| F 60 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 373 | 108 |
| F 60 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 373 | 108 |
| F 60 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 392.5 | 110 |
| F 60 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 392.5 | 110 |
| F 60 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 402.5 | 114 |
| F 60 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 402.5 | 114 |

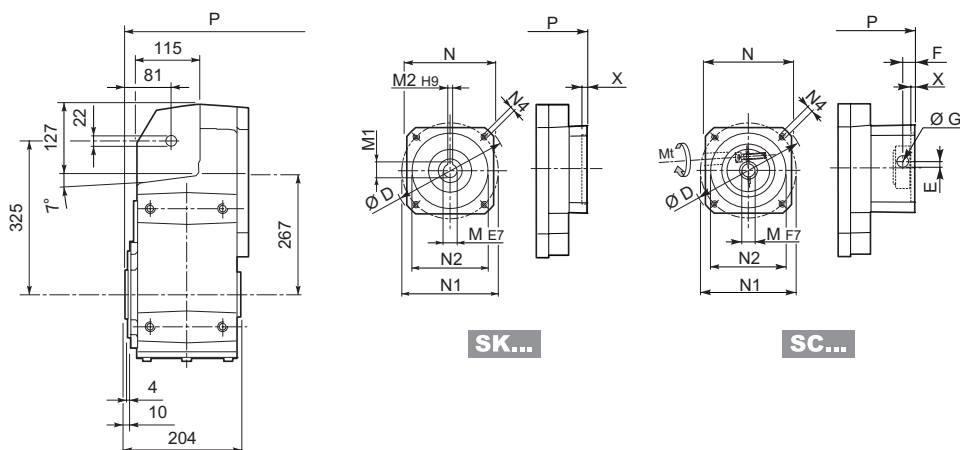
F 60...HS



| | | A | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|----|----|----|----|-----|----|--------|-----|
| | | | | | | | | | | |
| F 60 3 | HS | 419 | 60 | 28 | 31 | 8 | 5.0 | 50 | M10x22 | 108 |
| F 60 4 | | 462.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 105 |

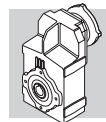


F 60...SK / SC



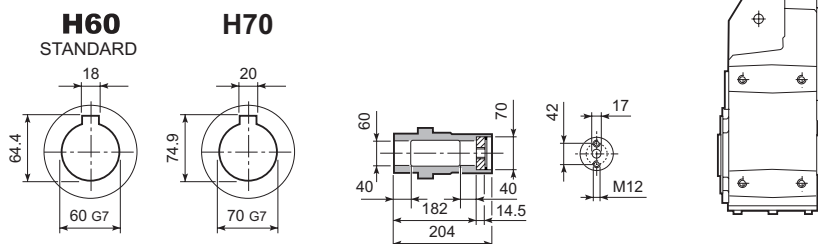
| | | D | M | M1 | M2 | N | N1 | N2 | N4 | X | 2/3x | | 4x | |
|-----------------|----------------|-----|----|------|----|-----|-----|-----|--------|---|-------|-----|-------|-----|
| | | | | | | | | | | | P | | P | |
| | | | | | | | | | | | | | | |
| F 60 4 | SK 80B | 120 | 14 | 16.3 | 5 | 96 | 100 | 80 | M6x12 | 4 | — | — | 392.5 | 109 |
| F 60 3/4 | SK 80C | 120 | 19 | 21.8 | 6 | 96 | 100 | 80 | M6x12 | 4 | 322 | 106 | 392.5 | 112 |
| F 60 3/4 | SK 95A | 130 | 14 | 16.3 | 5 | 102 | 115 | 95 | M8x12 | 4 | 322 | 106 | 392.5 | 112 |
| F 60 3/4 | SK 95B | 130 | 19 | 21.8 | 6 | 102 | 115 | 95 | M8x12 | 4 | 322 | 106 | 392.5 | 112 |
| F 60 3/4 | SK 95C | 130 | 24 | 27.3 | 8 | 102 | 115 | 95 | M8x12 | 4 | 322 | 106 | 392.5 | 112 |
| F 60 3/4 | SK 110A | 140 | 19 | 21.8 | 6 | 120 | 130 | 110 | M8x12 | 5 | 322 | 106 | 392.5 | 112 |
| F 60 3/4 | SK 110B | 140 | 24 | 27.3 | 8 | 120 | 130 | 110 | M8x12 | 5 | 322 | 106 | 392.5 | 112 |
| F 60 3/4 | SK 130A | 188 | 24 | 27.3 | 8 | 142 | 165 | 130 | M10x20 | 5 | 322 | 108 | 392.5 | 112 |
| F 60 3 | SK 130B | 189 | 32 | 35.3 | 10 | 160 | 165 | 130 | M10x20 | 5 | 368.5 | 109 | — | — |
| F 60 3 | SK 180A | 240 | 32 | 35.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 368.5 | 109 | — | — |
| F 60 3 | SK 180B | 240 | 38 | 41.3 | 10 | 192 | 215 | 180 | M12x19 | 5 | 368.5 | 109 | — | — |

| | | | Mt | D | E | F | G | M | N | N1 | N2 | N4 | X | 2/3x | | 4x | |
|-----------------|----------------|----|-------|-----|------|------|-------|----|-----|-----|-----|--------|---|-------|-----|-----|-----|
| | | | | | | | | | | | | | | P | | P | |
| F 60 4 | SC 80B | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 14 | 96 | 100 | 80 | M6x12 | 4 | — | — | 416 | 113 |
| F 60 3/4 | SC 80C | M6 | 15 Nm | 120 | 15.5 | 14.5 | 17.75 | 19 | 96 | 100 | 80 | M6x12 | 4 | 345.5 | 107 | 416 | 113 |
| F 60 3/4 | SC 95A | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 14 | 102 | 115 | 95 | M8x16 | 4 | 345.5 | 107 | 416 | 113 |
| F 60 3/4 | SC 95B | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 19 | 102 | 115 | 95 | M8x16 | 4 | 345.5 | 107 | 416 | 113 |
| F 60 3/4 | SC 95C | M6 | 15 Nm | 130 | 16.5 | 15 | 17.75 | 24 | 102 | 115 | 95 | M8x16 | 4 | 345.5 | 107 | 416 | 113 |
| F 60 3/4 | SC 110A | M6 | 15 Nm | 140 | 16.5 | 16 | 17.75 | 19 | 120 | 130 | 110 | M8x16 | 5 | 345.5 | 108 | 416 | 113 |
| F 60 3/4 | SC 110B | M6 | 15 Nm | 140 | 16.5 | 16 | 17.75 | 24 | 120 | 130 | 110 | M8x16 | 5 | 345.5 | 108 | 416 | 113 |
| F 60 3/4 | SC 130A | M6 | 15 Nm | 188 | 19 | 16 | 17.75 | 24 | 142 | 165 | 130 | M10x20 | 5 | 345.5 | 109 | 416 | 115 |
| F 60 3 | SC 130B | M8 | 36 Nm | 189 | 20 | 17 | 17.75 | 32 | 160 | 165 | 130 | M10x20 | 5 | 390.5 | 112 | — | — |
| F 60 3 | SC 180A | M8 | 36 Nm | 240 | 20 | 17.5 | 17.75 | 32 | 192 | 215 | 180 | M12x24 | 5 | 394.5 | 112 | — | — |
| F 60 3 | SC 180B | M8 | 36 Nm | 240 | 20 | 17.5 | 17.75 | 38 | 192 | 215 | 180 | M12x24 | 5 | 394.5 | 112 | — | — |

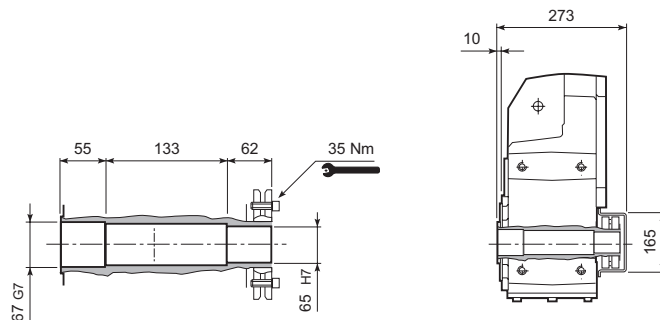


F 60

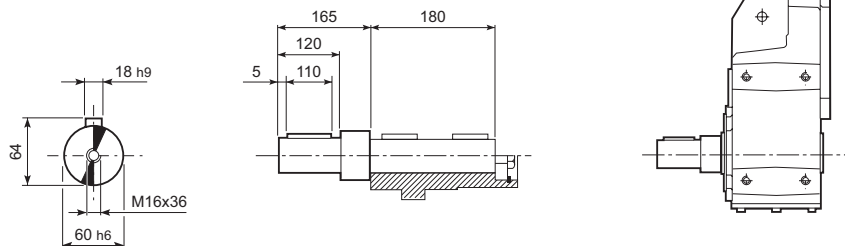
F 60...H



F 60...S

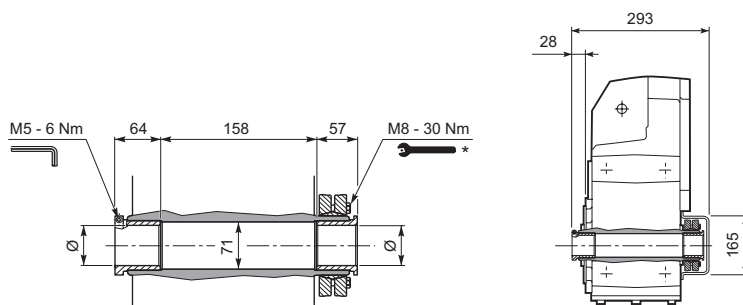


F 60...R

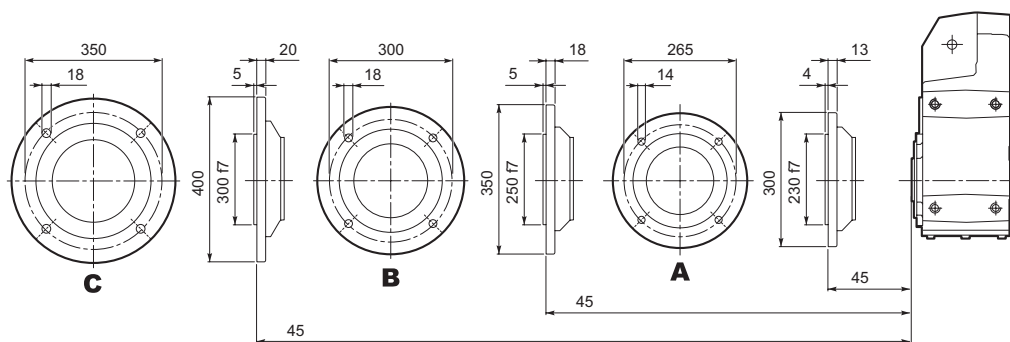


F 60...QF

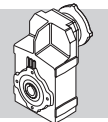
| | Ø |
|------|----|
| QF60 | 60 |
| QF65 | 65 |
| QF70 | 70 |



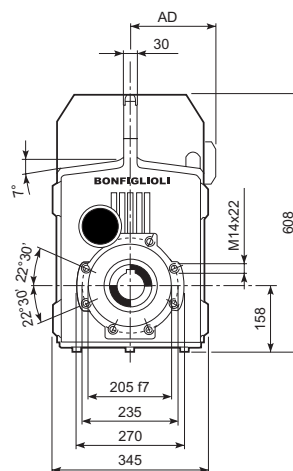
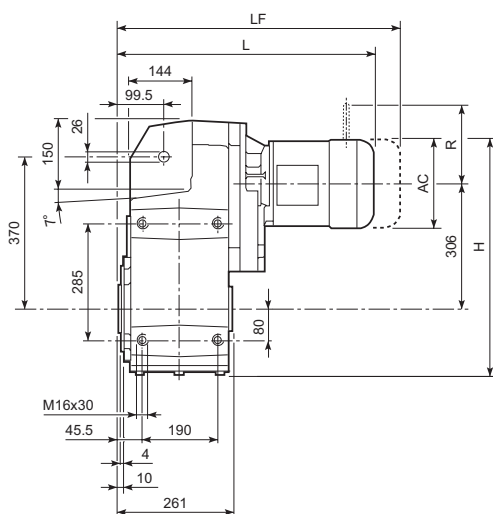
F 60...F...



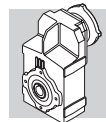
* Suivez les INSTRUCTIONS POUR LE MONTAGE fournies avec le réducteur.



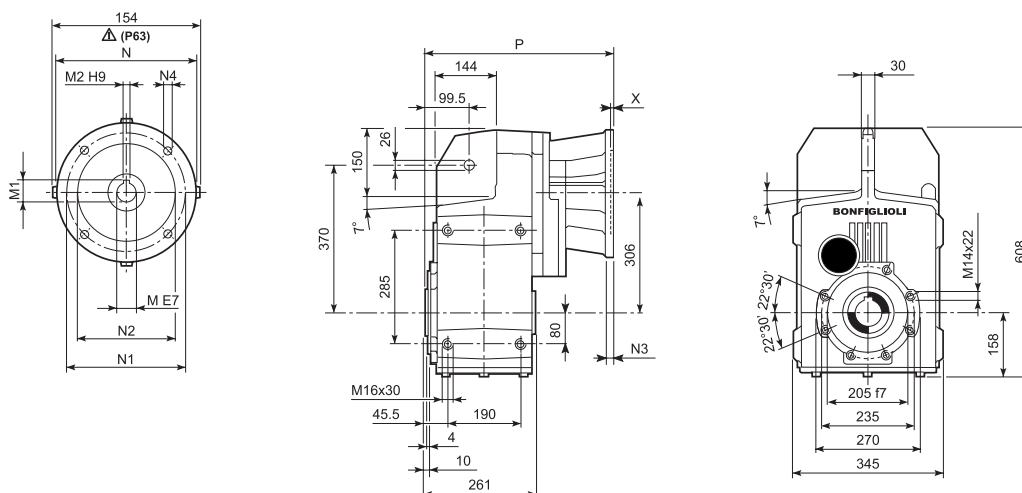
F 70...M



| | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|---------------|-----------|-------------|-----|-------|-------|-----|-----|------------------|-----|--------|-----|--------|-----|
| | | | AC | H | L | AD | | LF | | R | AD | R | AD |
| F 70 3 | S2 | M2S | 156 | 542 | 552 | 119 | 173 | 622 | 177 | 129 | 146 | 134 | 119 |
| F 70 3 | S3 | M3S | 195 | 561.5 | 595 | 142 | 178 | 691 | 186 | 160 | 158 | 160 | 142 |
| F 70 3 | S3 | M3L | 195 | 561.5 | 627 | 142 | 186 | 718 | 193 | 160 | 158 | 160 | 142 |
| F 70 3 | S4 | M4 | 258 | 593 | 735 | 193 | 220 | 844 | 238 | 226 | 210 | 217 | 193 |
| F 70 3 | S4 | M4LC | 258 | 593 | 770 | 193 | 228 | 869 | 246 | 226 | 210 | 217 | 193 |
| F 70 3 | S5 | M5S | 310 | 619 | 821.5 | 245 | 248 | 961.5 | 278 | 266 | 245 | 247 | 245 |
| F 70 3 | S5 | M5L | 310 | 619 | 865.5 | 245 | 264 | 1005.5 | 294 | 266 | 245 | 247 | 245 |
| F 70 4 | S1 | M1 | 138 | 533 | 574 | 108 | 173 | 635 | 176 | 103 | 135 | 124 | 108 |
| F 70 4 | S2 | M2S | 156 | 542 | 603 | 119 | 177 | 673 | 180 | 129 | 146 | 134 | 119 |
| F 70 4 | S3 | M3S | 195 | 561.5 | 646 | 142 | 181 | 742 | 189 | 160 | 158 | 160 | 142 |
| F 70 4 | S3 | M3L | 195 | 561.5 | 678 | 142 | 189 | 769 | 196 | 160 | 158 | 160 | 142 |
| F 70 4 | S4 | M4 | 258 | 593 | 786 | 193 | 223 | 895 | 241 | 226 | 210 | 217 | 193 |
| F 70 4 | S4 | M4LC | 258 | 593 | 821 | 193 | 231 | 920 | 249 | 226 | 210 | 217 | 193 |

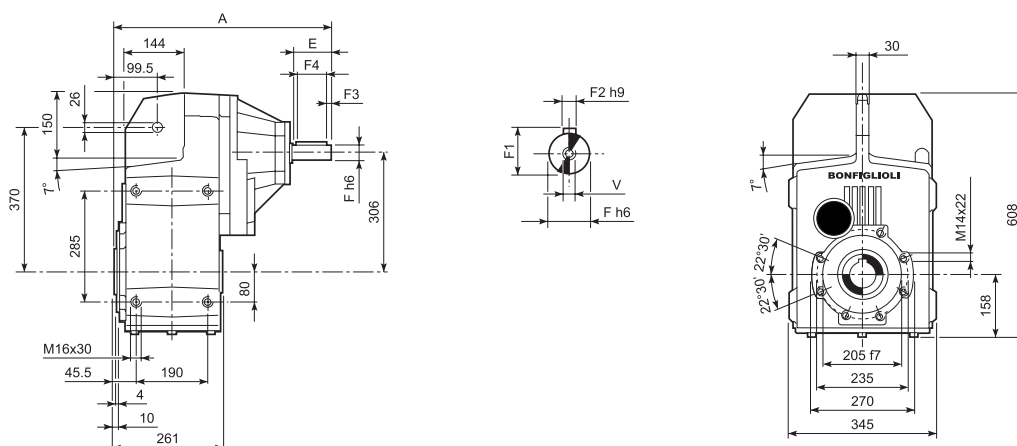


F 70...P(IEC)

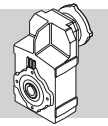


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| F 70 3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 387.5 | 167 |
| F 70 3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 387.5 | 167 |
| F 70 3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 397.5 | 171 |
| F 70 3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 397.5 | 171 |
| F 70 3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 434 | 173 |
| F 70 3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 6 | 489.5 | 185 |
| F 70 3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 6 | 489.5 | 185 |
| F 70 3 | P200 | 55 | 59.3 | 16 | 400 | 350 | 300 | — | M16x25 | 7 | 514.5 | 206 |
| F 70 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 419 | 168 |
| F 70 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 419 | 168 |
| F 70 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 438.5 | 170 |
| F 70 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 438.5 | 170 |
| F 70 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 446.5 | 174 |
| F 70 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 446.5 | 174 |
| F 70 4 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 482 | 176 |

F 70...HS

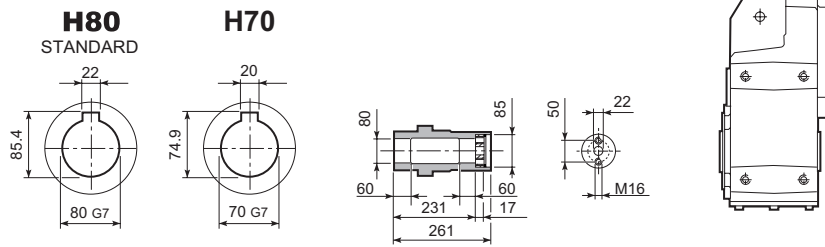


| | | A | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|-----|----|----|----|-----|----|--------|-----|
| F 70 3 | HS | 572 | 110 | 42 | 45 | 12 | 10 | 90 | M12x28 | 186 |
| F 70 4 | | 508.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 174 |

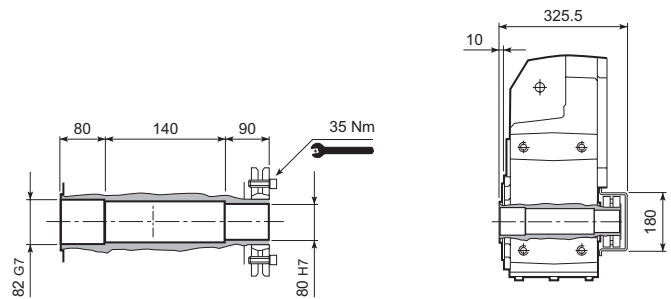


F 70

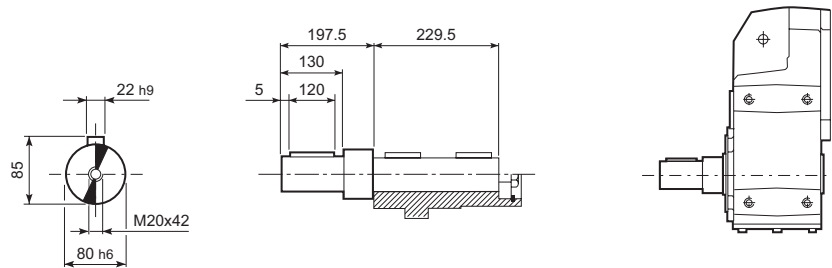
F 70...H



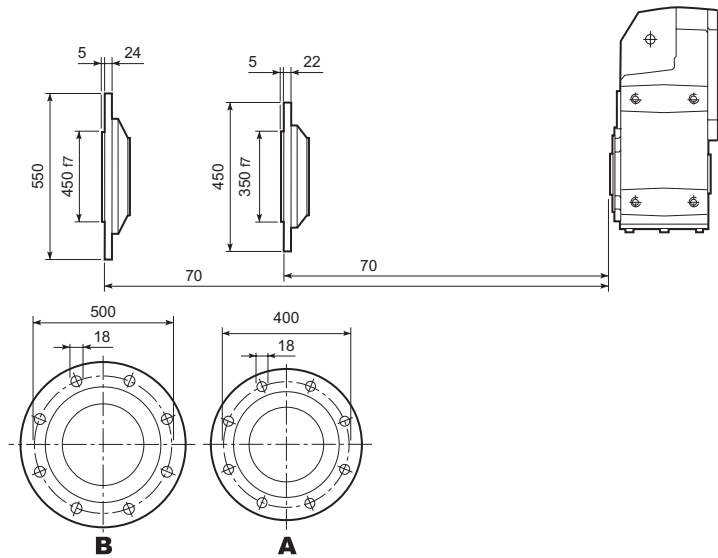
F 70...S

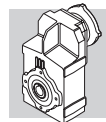


F 70...R

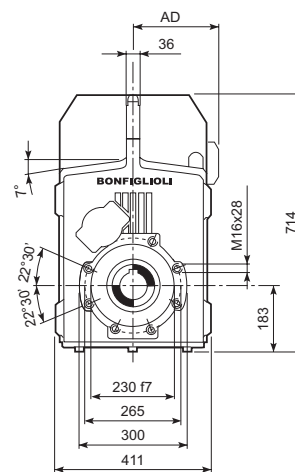
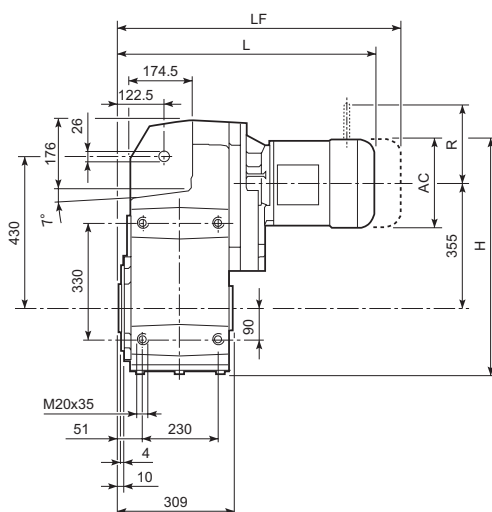


F 70...F...

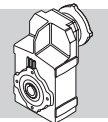




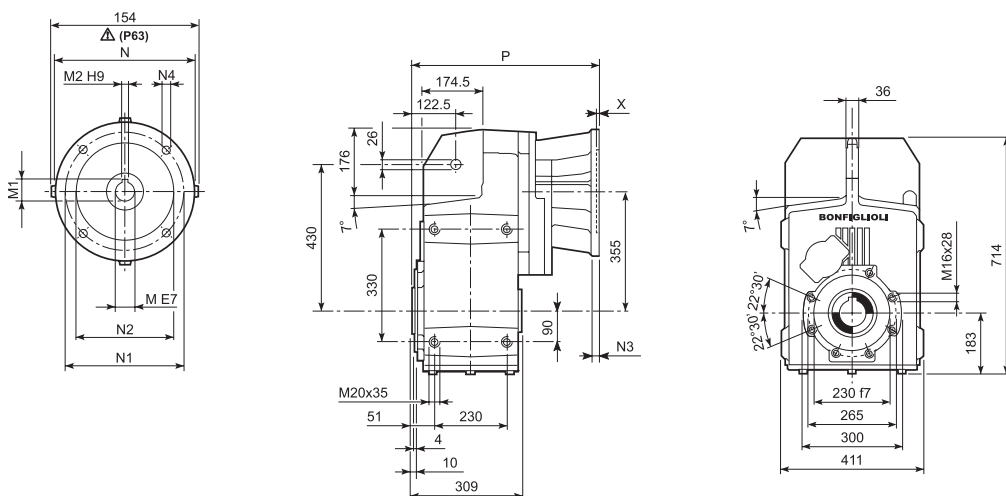
F 80...M



| | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|---------------|-----------|-------------|-----|-------|-------|-----|-----|--------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | AD | Kg | LF | Kg | R | AD | R | AD | |
| F 80 3 | S3 | M3S | 195 | 635.5 | 653 | 142 | 266 | 749 | 273 | 160 | 158 | 160 | 142 | |
| F 80 3 | S3 | M3L | 195 | 635.5 | 685 | 142 | 273 | 776 | 280 | 160 | 158 | 160 | 142 | |
| F 80 3 | S4 | M4 | 258 | 667 | 793 | 193 | 307 | 902 | 325 | 226 | 210 | 217 | 193 | |
| F 80 3 | S4 | M4LC | 258 | 667 | 828 | 193 | 315 | 927 | 333 | 226 | 210 | 217 | 193 | |
| F 80 3 | S5 | M5S | 310 | 693 | 879.5 | 245 | 335 | 1019.5 | 365 | 266 | 245 | 247 | 245 | |
| F 80 3 | S5 | M5L | 310 | 693 | 923.5 | 245 | 351 | 1063.5 | 381 | 266 | 245 | 247 | 245 | |
| F 80 4 | S1 | M1 | 138 | 607 | 644 | 108 | 262 | 705 | 265 | 103 | 135 | 124 | 108 | |
| F 80 4 | S2 | M2S | 156 | 616 | 673 | 119 | 266 | 743 | 269 | 129 | 146 | 134 | 119 | |
| F 80 4 | S3 | M3S | 195 | 635.5 | 716 | 142 | 271 | 812 | 278 | 160 | 158 | 160 | 142 | |
| F 80 4 | S3 | M3L | 195 | 635.5 | 748 | 142 | 278 | 839 | 285 | 160 | 158 | 160 | 142 | |
| F 80 4 | S4 | M4 | 258 | 667 | 856 | 193 | 312 | 965 | 330 | 226 | 210 | 217 | 193 | |
| F 80 4 | S4 | M4LC | 258 | 667 | 891 | 193 | 320 | 990 | 338 | 226 | 210 | 217 | 193 | |

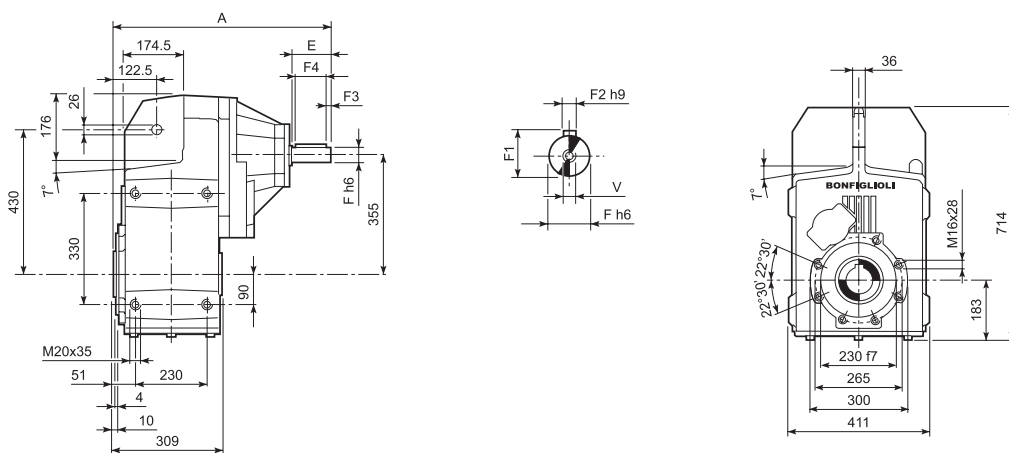


F 80...P(IEC)

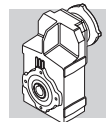


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | Kg |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| F 80 3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 445.5 | 255 |
| F 80 3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 445.5 | 255 |
| F 80 3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 455.5 | 259 |
| F 80 3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 455.5 | 259 |
| F 80 3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 492 | 261 |
| F 80 3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 6 | 547.5 | 276 |
| F 80 3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 6 | 547.5 | 276 |
| F 80 3 | P200 | 55 | 59.3 | 16 | 400 | 350 | 300 | — | M16x25 | 7 | 572.5 | 298 |
| F 80 3 | P225 | 60 | 64.4 | 18 | 450 | 400 | 350 | 25 | 18 | 6 | 618 | 298 |
| F 80 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 489 | 258 |
| F 80 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 489 | 258 |
| F 80 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 508.5 | 260 |
| F 80 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 508.5 | 260 |
| F 80 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 518.5 | 264 |
| F 80 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 518.5 | 264 |
| F 80 4 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 552 | 266 |

F 80...HS

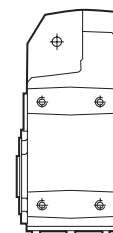
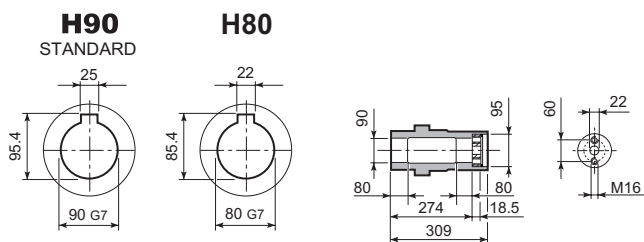


| | | A | E | F | F1 | F2 | F3 | F4 | V | Kg |
|--------|----|-------|-----|----|----|----|-----|----|--------|-----|
| F 80 3 | HS | 630 | 110 | 42 | 45 | 12 | 10 | 90 | M12x28 | 273 |
| F 80 4 | | 575.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 263 |

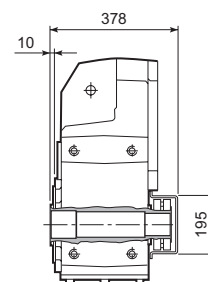
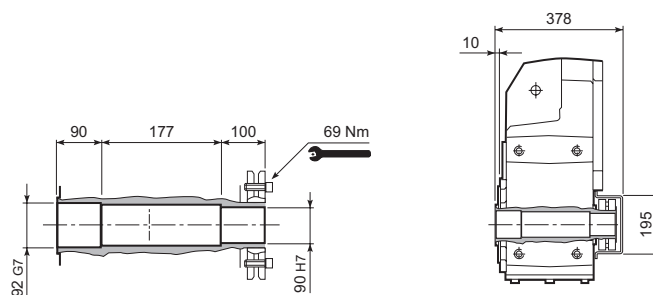


F 80

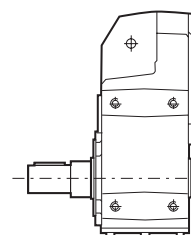
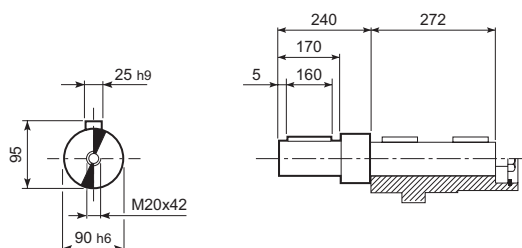
F 80...H



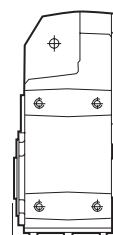
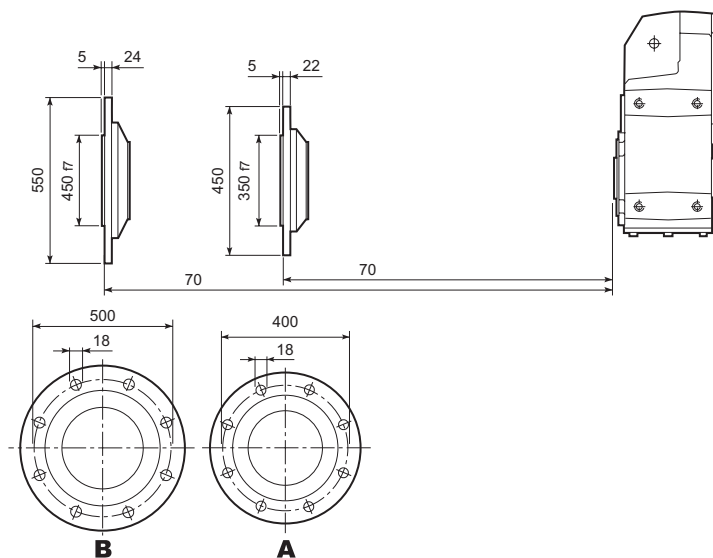
F 80...S

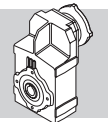


F 80...R

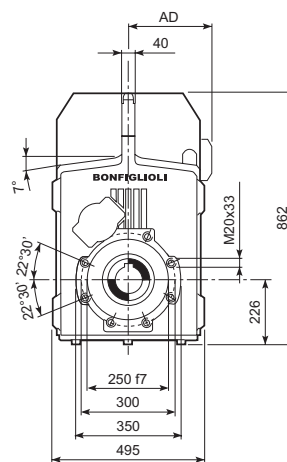
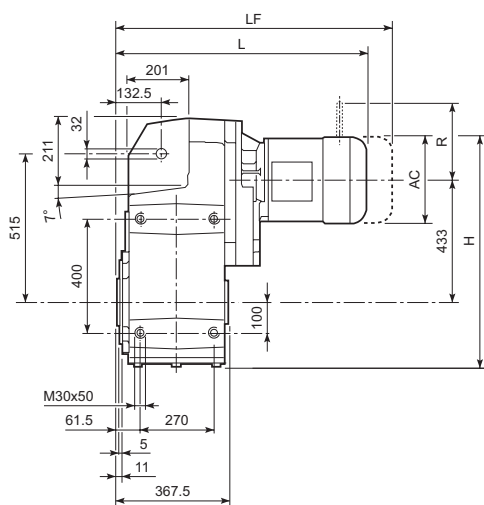


F 80...F...

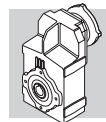




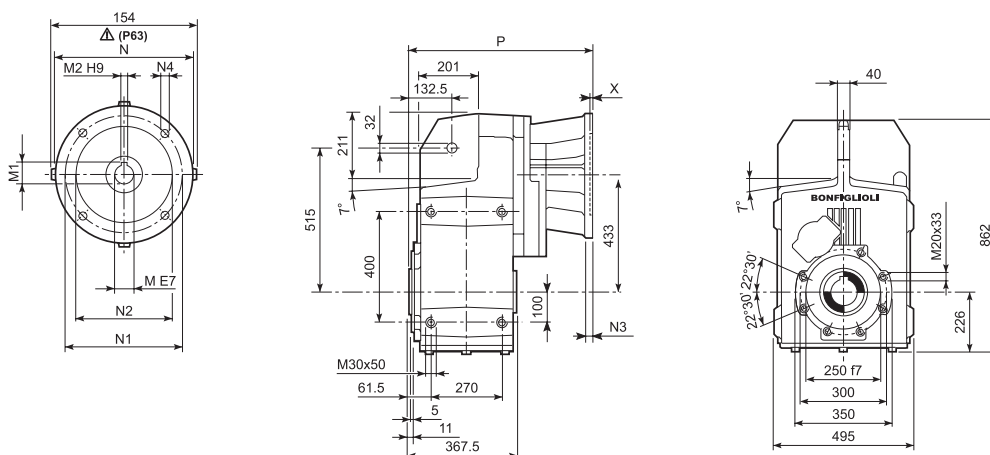
F 90...M



| | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|---------------|-----------|-------------|-----|-------|-------|-----|-----|--------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | L | AD | | LF | | R | AD | R | AD | |
| F 90 3 | S3 | M3S | 195 | 756 | 728 | 142 | 453 | 824 | 460 | 160 | 158 | 160 | 142 | |
| F 90 3 | S3 | M3L | 195 | 756 | 760 | 142 | 460 | 851 | 467 | 160 | 158 | 160 | 142 | |
| F 90 3 | S4 | M4 | 258 | 787.5 | 868 | 193 | 494 | 977 | 512 | 226 | 210 | 217 | 193 | |
| F 90 3 | S5 | M5L | 310 | 813.5 | 998.5 | 245 | 538 | 1138.5 | 568 | 266 | 245 | 247 | 245 | |
| F 90 4 | S2 | M2S | 156 | 736.5 | 768 | 119 | 456 | 838 | 460 | 129 | 146 | 134 | 119 | |
| F 90 4 | S3 | M3S | 195 | 756 | 811 | 142 | 460 | 907 | 468 | 160 | 158 | 160 | 142 | |
| F 90 4 | S3 | M3L | 195 | 756 | 843 | 142 | 468 | 934 | 475 | 160 | 158 | 160 | 142 | |
| F 90 4 | S4 | M4 | 258 | 787.5 | 951 | 193 | 502 | 1060 | 520 | 226 | 210 | 217 | 193 | |
| F 90 4 | S4 | M4LC | 258 | 787.5 | 986 | 193 | 510 | 1085 | 528 | 226 | 210 | 217 | 193 | |

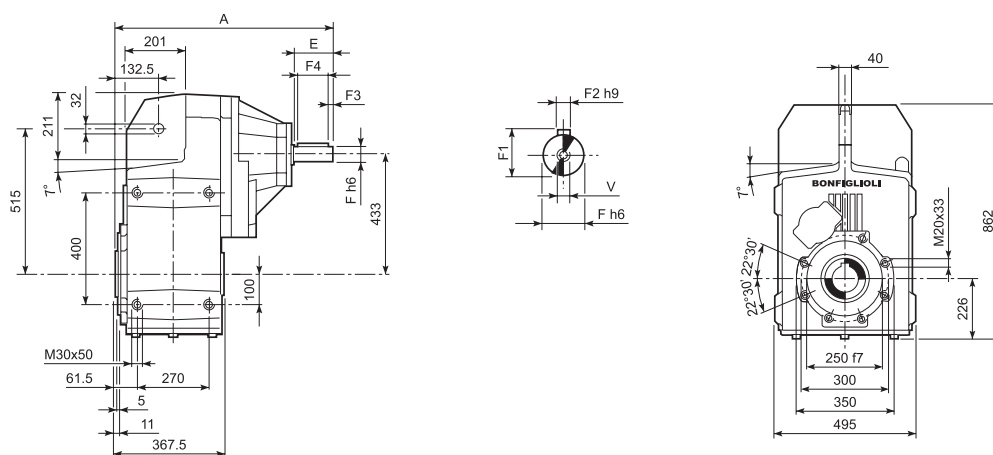


F 90...P(IEC)

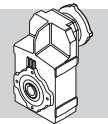


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | X | P | |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-------|-----|
| F 90 3 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 520.5 | 442 |
| F 90 3 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 520.5 | 442 |
| F 90 3 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 530.5 | 446 |
| F 90 3 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 530.5 | 446 |
| F 90 3 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 567 | 449 |
| F 90 3 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 6 | 622.5 | 463 |
| F 90 3 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 6 | 622.5 | 463 |
| F 90 3 | P200 | 55 | 59.3 | 16 | 400 | 350 | 300 | — | M16x25 | 7 | 647.5 | 485 |
| F 90 3 | P225 | 60 | 64.4 | 18 | 450 | 400 | 350 | 30 | 18 | 6 | 693 | 485 |
| F 90 3 | P250 | 65 | 69.4 | 18 | 550 | 500 | 450 | 30 | 18 | 6 | 723 | 507 |
| F 90 4 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x19 | 4 | 584 | 448 |
| F 90 4 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x16 | 4.5 | 584 | 448 |
| F 90 4 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 4 | 603.5 | 450 |
| F 90 4 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 4 | 603.5 | 450 |
| F 90 4 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 613.5 | 454 |
| F 90 4 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 4.5 | 613.5 | 454 |
| F 90 4 | P132 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 5 | 650 | 455 |
| F 90 4 | P160 | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 5.5 | 700.5 | 461 |
| F 90 4 | P180 | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 5.5 | 700.5 | 461 |

F 90...HS

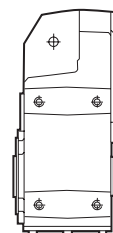
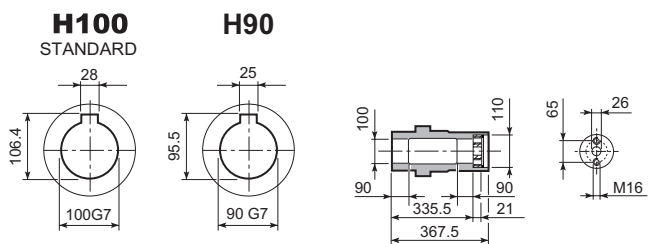


| | | A | E | F | F1 | F2 | F3 | F4 | V | |
|--------|----|-------|-----|----|----|----|-----|-----|--------|-----|
| F 90 3 | HS | 806.5 | 140 | 60 | 64 | 18 | 10 | 120 | M16x36 | 485 |
| F 90 4 | | 673.5 | 50 | 24 | 27 | 8 | 2.5 | 45 | M8x19 | 452 |

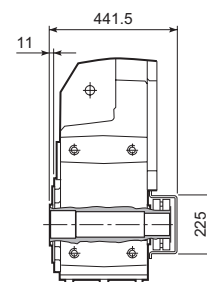
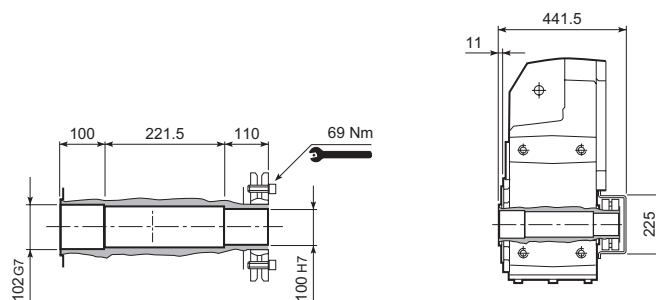


F 90

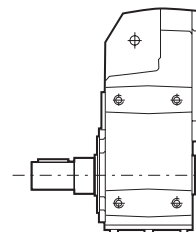
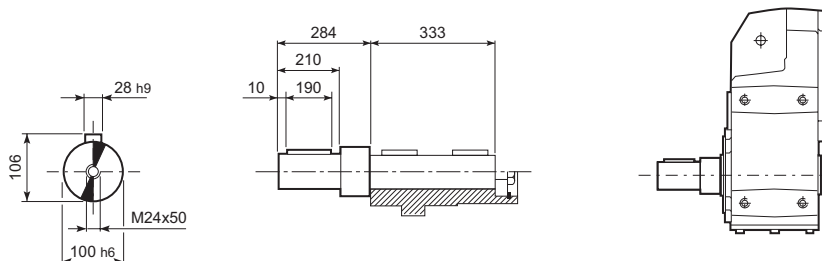
F 90...H



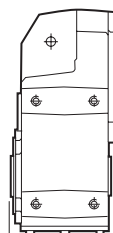
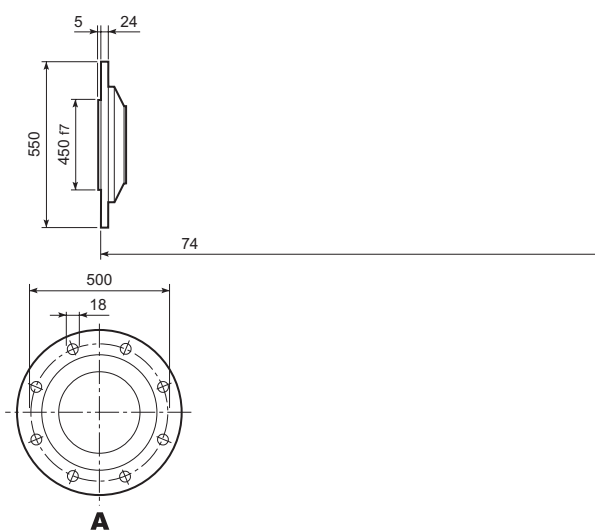
F 90...S



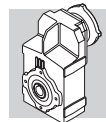
F 90...R



F 90...F...



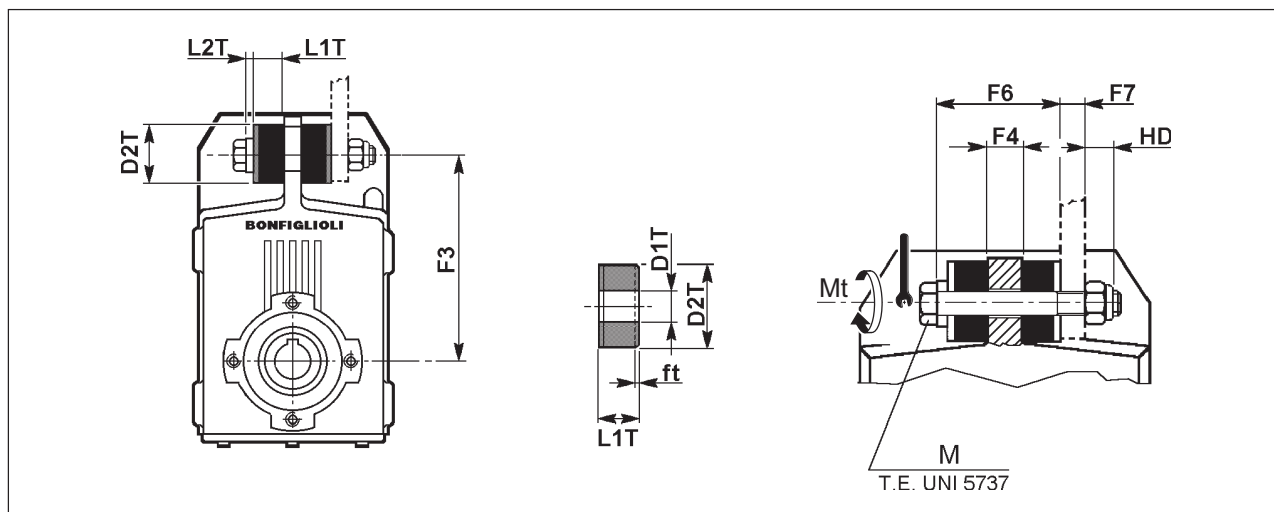
A



60 ACCESSOIRES

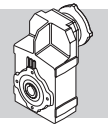
Kit de fixation pour bras de réaction avec butée en caoutchouc antivibrations

Les réducteurs de la série F peuvent être équipés, sur demande, d'un kit antivibration, incluant les composants nécessaires à la fixation pendulaire (bras de réaction exclu). Les dimensions sont indiquées dans le tableau suivant.



| | F3 | F4 | F6 | F7 (max.) | HD | L1T | L2T | D1T | D2T | M | Mt [Nm] | ft |
|-------------|-----|----|-----|--------------|------|-----|-----|------|-----|---------|------------|-----|
| F 10 | 140 | 20 | 55 | 10 | 12.3 | 15 | 5 | 11 | 30 | M10x80 | 10 | 1.5 |
| F 20 | 160 | 20 | 55 | 10 | 12.3 | 15 | 5 | 11 | 30 | M10x80 | 10 | 1.5 |
| F 25 | 162 | 20 | 65 | 20 | 14.8 | 20 | 5 | 12.5 | 40 | M12x100 | 20 | 1.5 |
| F 31 | 170 | 20 | 65 | 20 | 14.8 | 20 | 5 | 12.5 | 40 | M12x100 | 20 | 1.5 |
| F 41 | 218 | 16 | 61 | 24 | 14.8 | 20 | 5 | 12.5 | 40 | M12x100 | 20 | 2.3 |
| F 51 | 278 | 20 | 90 | 47 | 23 | 30 | 10 | 21 | 60 | M20x160 | 50 | 3.0 |
| F 60 | 325 | 26 | 96 | 41 | 23 | 30 | 10 | 21 | 60 | M20x160 | 50 | 4.0 |
| F 70 | 370 | 30 | 122 | 50 | 28 | 40 | 12 | 25 | 80 | M24x200 | 100 | 4.0 |
| F 80 | 430 | 36 | 128 | 44 | 28 | 40 | 12 | 25 | 80 | M24x200 | 100 | 6.0 |
| F 90 | 515 | 40 | 175 | 40 | 33.2 | 60 | 15 | 32 | 100 | M30x260 | 200 | 9.0 |

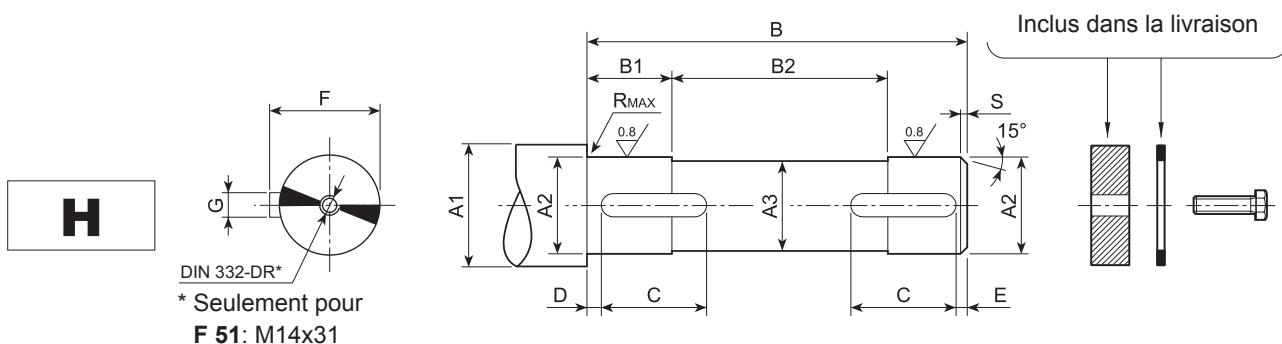
f_t = variation dimensionnelle du tampon de caoutchouc antivibration.





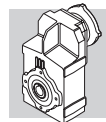
61 ARBRE MACHINE

Nous conseillons de réaliser l'arbre accouplé avec le réducteur avec de l'acier de bonne qualité et de respecter les dimensions indiquées sur le tableau.

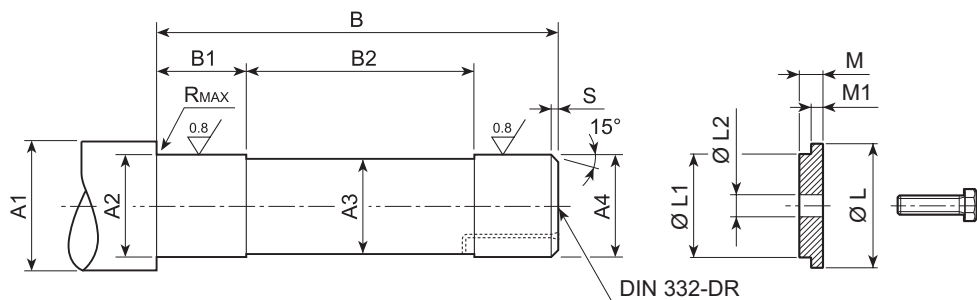
Il est recommandé de compléter le montage par un dispositif de blocage axial de l'arbre, à titre d'exemple voir comme illustré ci-dessous, en prenant soin de vérifier et de dimensionner les divers composants en fonction des différentes exigences de l'application.




| | A1 | A2 | A3 | B | B1 | B2 | C | D | E | F | G | R | S |  |  |
|------|-------|--------|----|------|------|------|-----|-----|-----|------|-------|-----|-----|---|---|
| F 10 | ≥ 35 | 30 h7 | 29 | 87.5 | 15.5 | 56.5 | 20 | 2 | 2 | 33 | 8 h9 | 0.5 | 1.5 | 8x7x20 A | M8x25 |
| | ≥ 30 | 25 h7 | 24 | 87.5 | 15.5 | 56.5 | 20 | 2 | 2 | 28 | 8 h9 | 0.5 | 1.5 | 8x7x20 A | |
| F 20 | ≥ 42 | 35 h7 | 34 | 99 | 18 | 63 | 22 | 2 | 2 | 38 | 10 h9 | 0.5 | 1.5 | 10x8x22 A | M8x30 |
| | ≥ 35 | 30 h7 | 29 | 99 | 18 | 63 | 22 | 2 | 2 | 33 | 8 h9 | 0.5 | 1.5 | 8x7x22 A | |
| F 25 | ≥ 47 | 40 h7 | 39 | 104 | 23 | 58 | 30 | 2 | 2 | 43 | 12 h9 | 0.5 | 1.5 | 12x8x30 A | M8x30 |
| | ≥ 42 | 35 h7 | 34 | 104 | 23 | 58 | 30 | 2 | 2 | 38 | 10 h9 | 0.5 | 1.5 | 10x8x30 A | |
| F 31 | ≥ 47 | 40 h7 | 39 | 104 | 28 | 48 | 30 | 2 | 2 | 43 | 12 h9 | 0.5 | 1.5 | 12x8x30 A | M8x30 |
| | ≥ 42 | 35 h7 | 34 | 104 | 28 | 48 | 30 | 2 | 2 | 38 | 10 h9 | 0.5 | 1.5 | 10x8x30 A | |
| F 41 | ≥ 52 | 45 h7 | 44 | 118 | 27.5 | 63 | 45 | 2.5 | 2.5 | 49.5 | 14 h9 | 1 | 2.0 | 14x9x45 A | M10x30 |
| | ≥ 47 | 40 h7 | 39 | 118 | 27.5 | 63 | 45 | 2.5 | 2.5 | 43 | 12 h9 | 1 | 2.0 | 12x8x45 A | |
| F 51 | ≥ 63 | 55 h7 | 54 | 139 | 33 | 73 | 50 | 2.5 | 2.5 | 59 | 16 h9 | 1 | 2.0 | 16x10x50 A | M14x45 |
| | ≥ 57 | 50 h7 | 49 | 139 | 33 | 73 | 50 | 2.5 | 2.5 | 53.5 | 14 h9 | 1 | 2.0 | 14x9x50 A | |
| F 60 | ≥ 78 | 70 h7 | 69 | 180 | 38 | 104 | 70 | 2.5 | 2.5 | 74.5 | 20 h9 | 1 | 2.0 | 20x12x70 A | M16x45 |
| | ≥ 68 | 60 h7 | 59 | 180 | 38 | 104 | 70 | 2.5 | 2.5 | 64 | 18 h9 | 1 | 2.0 | 18x11x70 A | |
| F 70 | ≥ 89 | 80 h7 | 79 | 229 | 58 | 113 | 75 | 3 | 3 | 85 | 22 h9 | 2.5 | 2.5 | 22x14x75 A | M20x55 |
| | ≥ 78 | 70 h7 | 69 | 229 | 58 | 113 | 75 | 3 | 3 | 74.5 | 20 h9 | 2.5 | 2.5 | 20x12x75 A | |
| F 80 | ≥ 99 | 90 h7 | 89 | 272 | 78 | 116 | 100 | 3 | 3 | 95 | 25 h9 | 2.5 | 2.5 | 25x14x100 A | M20x55 |
| | ≥ 89 | 80 h7 | 79 | 272 | 78 | 116 | 100 | 3 | 3 | 85 | 22 h9 | 2.5 | 2.5 | 22x14x100 A | |
| F 90 | ≥ 111 | 100 h7 | 99 | 333 | 87.5 | 158 | 110 | 3 | 3 | 106 | 28 h9 | 2.5 | 2.5 | 28x16x110 A | M24x65 |
| | ≥ 99 | 90 h7 | 89 | 333 | 87.5 | 158 | 110 | 3 | 3 | 95 | 25 h9 | 2.5 | 2.5 | 25x14x110 A | |

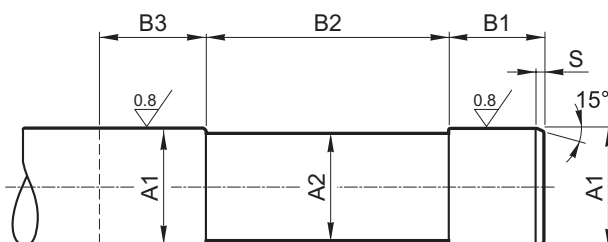


S

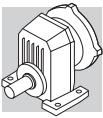


| | A1 | A2 | A3 | A4 | B | B1 | B2 | R | S | L | L1 | L2 | M | M1 |  |
|-------------|-------|--------|----|--------|-------|------|-------|-----|-----|------|--------|----|------|------|---|
| F 10 | ≥ 36 | 27 h7 | 24 | 25 h6 | 138 | 34 | 70 | 0.5 | 1.5 | 29.5 | 25 d9 | 9 | 7 | 5.5 | M8x25 |
| F 20 | ≥ 42 | 32 h7 | 29 | 30 h6 | 160 | 38 | 84 | 0.5 | 1.5 | 35.5 | 30 d9 | 9 | 7 | 5.5 | M8x25 |
| F 25 | ≥ 42 | 32 h7 | 30 | 31 h6 | 172 | 38 | 96 | 0.5 | 1.5 | 35.5 | 31 d9 | 9 | 7 | 5.5 | M8x25 |
| F 31 | ≥ 50 | 38 h7 | 35 | 36 h6 | 155 | 40 | 73 | 1 | 2 | 43 | 36 d9 | 9 | 7 | 5.5 | M8x25 |
| F 41 | ≥ 58 | 44 h7 | 41 | 42 h6 | 177 | 46.5 | 82 | 1 | 2 | 49 | 42 d9 | 11 | 8.5 | 7 | M10x30 |
| F 51 | ≥ 68 | 54 h7 | 51 | 52 g6 | 201 | 48 | 91 | 1 | 2 | 61 | 52 d9 | 18 | 9 | 7.5 | M16x45 |
| F 60 | ≥ 84 | 67 h7 | 64 | 65 g6 | 248 | 53 | 133 | 1.5 | 2 | 80 | 65 d9 | 18 | 9 | 7.5 | M16x45 |
| F 70 | ≥ 104 | 82 h7 | 79 | 80 g6 | 308 | 78 | 140 | 2.5 | 2.5 | 95 | 80 d9 | 22 | 13.5 | 12 | M20x55 |
| F 80 | ≥ 114 | 92 h7 | 89 | 90 g6 | 365 | 88 | 177 | 2.5 | 2.5 | 105 | 90 d9 | 22 | 13.5 | 12 | M20x55 |
| F 90 | ≥ 126 | 102 h7 | 99 | 100 g6 | 429.5 | 98 | 221.5 | 2.5 | 2.5 | 120 | 100 d9 | 26 | 20 | 18.5 | M24x70 |

QF



| | | A1 | A2 | B1 | B2 | B3 | S |
|-------------|-------------|-------|----|----|-------|------|-----|
| F 10 | QF25 | 25 h6 | 24 | 41 | 83 | ≥ 50 | 1.5 |
| | QF30 | 30 h6 | 29 | | | | |
| F 20 | QF25 | 25 h6 | 24 | 41 | 104.5 | ≥ 50 | 1.5 |
| | QF30 | 30 h6 | 29 | | | | |
| F 25 | QF30 | 30 h6 | 29 | 41 | 120.5 | ≥ 50 | 1.5 |
| | QF32 | 32 h6 | 31 | | | | |
| F 31 | QF35 | 35 h6 | 34 | 45 | 95.5 | ≥ 54 | 1.5 |
| | QF40 | 40 h6 | 39 | | | | |
| F 41 | QF42 | 42 h6 | 41 | 46 | 112.5 | ≥ 55 | 2 |
| | QF45 | 45 h6 | 44 | | | | |
| F 51 | QF50 | 50 h6 | 49 | 48 | 131 | ≥ 57 | 2 |
| | QF55 | 55 h6 | 54 | | | | |
| F 60 | QF60 | 60 h6 | 59 | 57 | 158 | ≥ 66 | 2.5 |
| | QF65 | 65 h6 | 64 | | | | |
| | QF70 | 70 h6 | 69 | | | | |



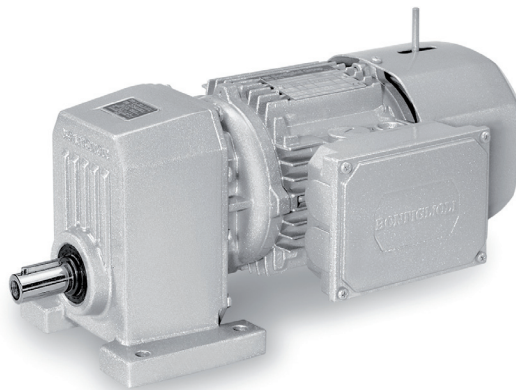
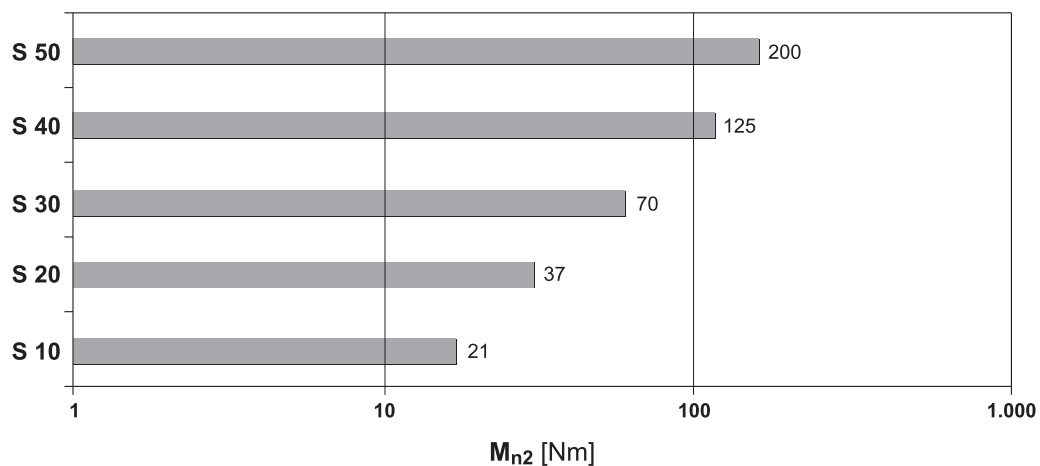
REDUCTEURS A UN ETAGE DE REDUCTION SERIE S

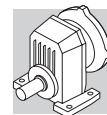
62 CARACTERISTIQUES DE CONSTRUCTION

Les principales caractéristiques de construction sont :

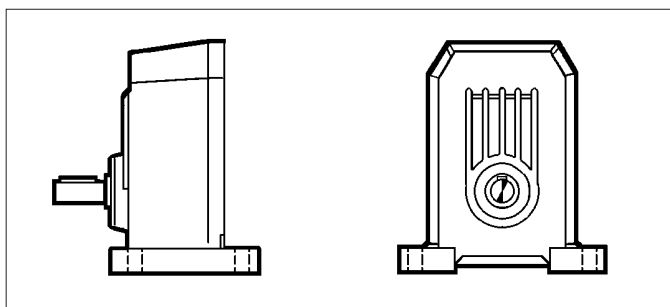
- modularité
- compacité
- rendements élevés
- faible niveau de bruit
- engrenages en acier allié cémentés et trempés
- carters en aluminium non peints dans les tailles 10, 20, 30, carters en fonte à haute résistance peints dans les autres tailles
- arbres d'entrée et de sortie en acier à haute résistance.

(E 59)





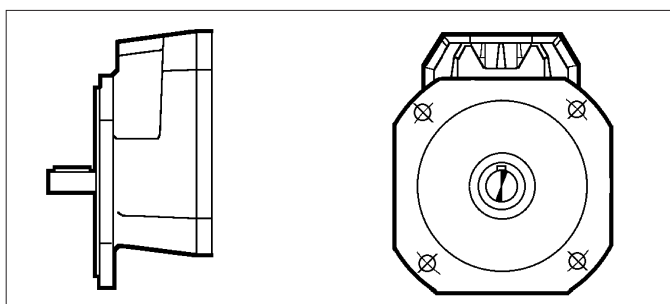
63 FORMES DE CONSTRUCTION



P

Carter à pattes monobloc

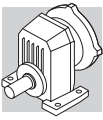
S 10 ... S 50



F

Carter à bride monobloc

S 10 ... S 50



64 DESIGNATION

REDUCTEUR

S 10 1 P 1.4 S1 B3
 | | | | | | | | |
 | | | | | | | | |

OPTIONS

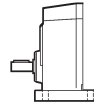
460

POSITION DE MONTAGE

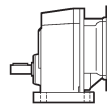
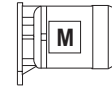
S...P: **B3** (Standard), **B6, B7, B8, V5, V6**
 S...F: **B5** (Standard), **B51, B52, B53, V1, V3**

463

DESIGNATION ENTREE

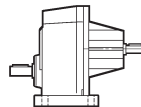
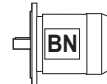


| | |
|-----|----|
| S05 | S3 |
| S1 | S4 |
| S2 | S5 |



IEC_

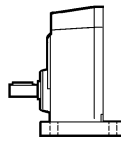
| | |
|------|------|
| P63 | P112 |
| P71 | P132 |
| P80 | P160 |
| P90 | P180 |
| P100 | |



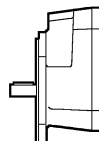
HS

RAPPORT DE REDUCTION

FORME DE CONSTRUCTION



P



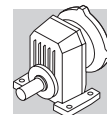
F

ETAGES DE REDUCTION

1

TAILLE REDUCTEUR
10, 20, 30, 40, 50

TYPE: **S** = à un étage de réduction



MOTEUR

FREIN

M 1LA 4 230/400-50 IP54 CLF W FD 7.5 R SB 220 SA

OPTIONS

461

ALIMENTATION
FREIN

521 526 531 534

TYPE REDRESSEUR
AC/DC
NB, SB, NBR, SBR

522 527

LEVIER DE DEBLOCAGE FREIN
R, RM

536

COUPLE FREIN

523 528 531 534

TYPE DE FREIN
FD (frein c.c.)
FA, BA (frein c.a.)

520 525 530 533

POSITION BOITE A BORNES
W (default), N, E, S

463

FORME DE CONSTRUCTION
— (moteur compact)
B5 (moteur IEC)CLASSE ISOLATION
CL F standard
CL H option

514

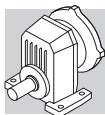
DEGRE DE PROTECTION
IP55 standard (IP54 - moteur frein)

509

TENSION - FREQUENCE

512

Nbre POLES
2, 4, 6, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8TAILLE MOTEUR
0B ... 5LA (moteur compact)
63A ... 280M (moteur IEC)TYPE MOTEUR
M = 3phasé compact
BN = 3phasé IEC



64.1 Options réducteurs

SO

Les réducteurs S10, S20, S30, S40, habituellement fournis avec lubrifiant par la société BONFIGLIOLI RIDOTTORI, sont demandés sans lubrifiant.

LO

Le réducteur S50, habituellement dépourvu de lubrifiant, est demandé avec huile synthétique du type couramment utilisé par BONFIGLIOLI RIDOTTORI et rempli conformément à la position de montage demandée.

DV

2 bagues d'étanchéité sur l'arbre rapide. (Disponible seulement sur motoréducteurs compacts).

VV

Bague d'étanchéité en élastomère fluoré sur l'arbre rapide.

PV

Toutes les bagues d'étanchéité en élastomère fluoré.

PROTECTION DE SURFACE

Lorsque qu'aucune classe de protection n'est requise, les surfaces (ferreuses) des réducteurs fournissent une protection minimale de classe C2 (UNI EN ISO 12944-2). Afin d'améliorer la résistance à la corrosion atmosphérique, les réducteurs peuvent être fournis avec une protection de surface **C3** et **C4**, obtenue par recouvrement complet.

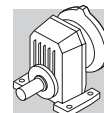
(E 60)

| PROTECTION DE SURFACE | Environnements typiques | Température maximum de surface | Classe de corrosivité en accord avec UNI EN ISO 12944-2 |
|-----------------------|--|--------------------------------|---|
| C3 | Environnement urbains et industriels avec jusqu'à 100% d'humidité relative (pollution de l'air moyenne) | 120°C | C3 |
| C4 | Zones industrielles, zones côtières, usines chimiques, avec jusqu'à 100% d'humidité relative (pollution de l'air élevée) | 120°C | C4 |

Les réducteurs avec une protection optionnelle en classes **C3** ou **C4** sont disponibles dans plusieurs teintes.

Si aucune teinte spécifique n'est requise (voir l'option "PEINTURE"), les réducteurs seront réalisés en RAL 7042.

Les réducteurs peuvent également être fournis avec une protection de surface pour une corrosivité en classe **C5** en accord avec UNI EN ISO 12944-2. Contacter notre Service Technique pour plus de détails.



PEINTURE

Les réducteurs avec une protection optionnelle en classe C3 ou C4 sont disponibles dans les teintes indiquées dans la table suivante.

(E 61)

| PEINTURE | Couleur | RAL numéro |
|-----------------|-----------------|------------|
| RAL7042* | Gris traffic A | 7042 |
| RAL5010 | Bleu gentiane | 5010 |
| RAL9005 | Noir foncé | 9005 |
| RAL9006 | Aluminium blanc | 9006 |
| RAL9010 | Blanc pur | 9010 |

* Les réducteurs sont fournis dans cette teinte standard si rien n'est spécifié.

NOTE – Les options “PEINTURE” peuvent seulement être spécifiées en accord avec les options “PROTECTION DE SURFACE”.

PREUVES DOCUMENTAIRES

AC - Certificat de conformité

Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

CC - Certificat de réception

La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des dimensions d'accouplement. En outre, des contrôles généraux de fonctionnement à vide et des vérifications de la fonctionnalité des joints d'étanchéité sont réalisés en modalité statique et en fonctionnement. La vérification s'applique à un échantillon statistique du lot d'expédition.

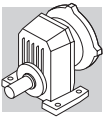
64.2 Options moteurs

AA, AC, AD

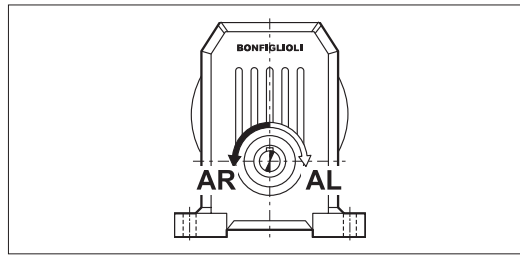
Position angulaire du levier de déblocage du frein par rapport à la position de la boîte à bornes en regardant du côté du ventilateur. Position standard = 90° sens horaire. AA = 0°, AC = 180°, AD = 90° sens anti-horaire.

AL, AR

Pour les motoréducteurs équipés d'un moteur compact de série M, l'option antidévireur située sur le moteur même et décrite dans la section moteurs électriques de ce catalogue est disponible. Le tableau suivant montre le sens de rotation libre du réducteur, sur la base duquel devra être effectué le choix de l'option.



(E 62)



CF

Filtre capacitif.

D3

3 sondes biméalliques dans les enroulements à une température de 150 °C.

E3

3 thermistances dans les enroulements à une température de 150 °C.

F1

Volant pour démarrage progressif.

H1

Réchauffeurs anticondensation. Alimentation standard 1~ 230V ±10%.

PN

Puissance à 60 Hz correspondante à la puissance normalisée à 50 Hz.

PS

Double extrémité d'arbre (à l'exclusion de l'option RC et U1).

RC

Capot protection antipluie (option PS exclue).

RV

Equilibrage rotor avec degré de vibration B.

TC

La variante du capot type TC est à spécifier lorsque le moteur est installé dans des sites de l'industrie textile.

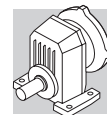
L'option exclue les variantes EN_ et n'est pas applicable aux moteurs avec frein type BA.

TP

Tropicalisation.

U1

Servo-ventilateur (options PS et CUS exclues).



U2

Servoventilateur sans boîte à bornes, doté de câbles précâblés à l'intérieur. Pas applicable avec les options PS et CUS. Disponible pour moteurs :

BN 71 ... BN 132,

M1 ... M4.

Pour de plus amples informations sur les options, consulter la section moteurs électriques.

65 LUBRIFICATION

Les organes internes des réducteurs Bonfiglioli sont lubrifiés avec un système mixte d'immersion et de barbotage de l'huile.

Les groupes S10, S20, S30 et S40 sont normalement livrés avec charge de lubrifiant de l'usine, ou du réseau de vente officiel.

Les groupes de taille S50 sont normalement fournis sans lubrifiant, et le remplissage d'huile sera à la charge de l'utilisateur avant la mise en service.

Dans les deux cas, selon les versions, avant la mise en service du réducteur, il pourrait être nécessaire de remplacer le bouchon fermé utilisé pour le transport par le bouchon d'évent fourni.

Pour les tableaux de référence pour le placement des bouchons de service et la quantité de lubrifiant, se référer au Manuel d'Installation, Utilisation et Entretien (disponible sur www.bonfiglioli.com).

Le lubrifiant "long life", fourni de série est de nature synthétique et, à moins de contamination par l'extérieur, il ne demande pas des remplacements périodiques pour toute la durée de vie du réducteur.

Le fonctionnement des réducteurs est admis pour des températures ambiantes comprises entre -20°C et $+40^{\circ}\text{C}$. Pour des températures ambiantes comprises entre -20°C et -10°C le démarrage du réducteur est admis seulement après un préchauffage progressif et homogène, ou avec un fonctionnement « à vide », sans charge appliquée.

La charge pourra être ensuite appliquée à l'arbre du réducteur quand celui-ci aura atteint une température de -10°C , ou supérieure.

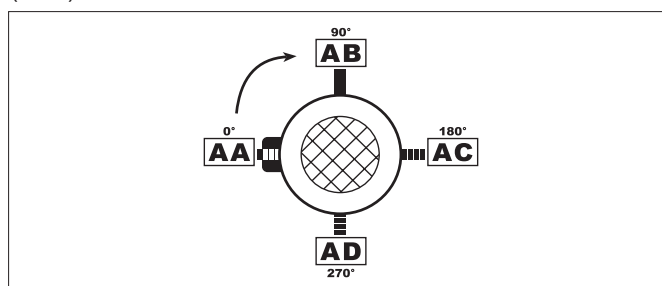
66 POSITIONS DE MONTAGE ET ORIENTATION BOITE A BORNES

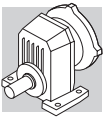
Les orientations des boîtes à bornes des moteurs sont définies en regardant le moteur du côté ventilateur. L'orientation standard est indiquée en noir (W).

Position angulaire levier débloqué frein.

Dans les moteurs freins, ce levier (si requis) aura l'orientation standard de 90° par rapport à la boîte à bornes (position AB); spécifier avec options relatives si l'orientation désirée est différente.

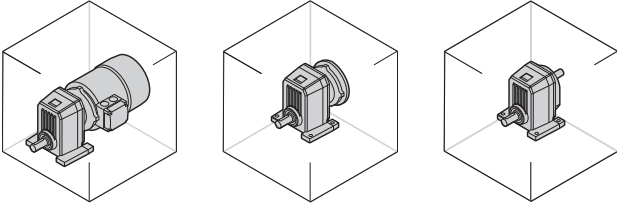
(E 63)





S ... P

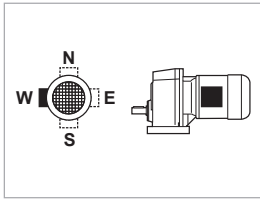
B3



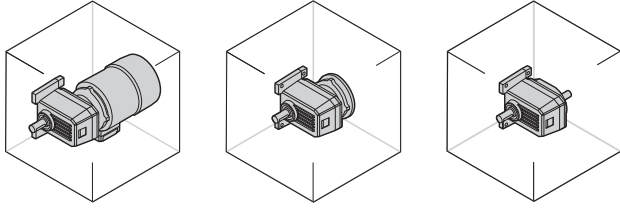
_S

_P(IEC)

_HS



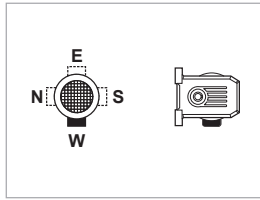
B6



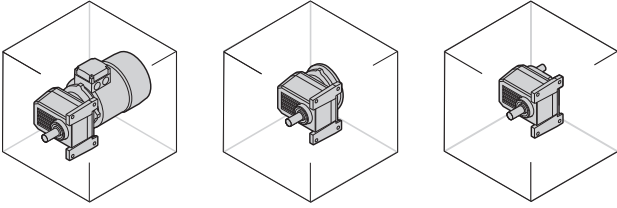
_S

_P(IEC)

_HS



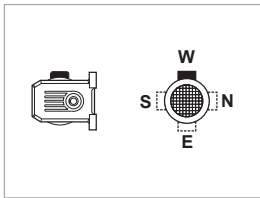
B7



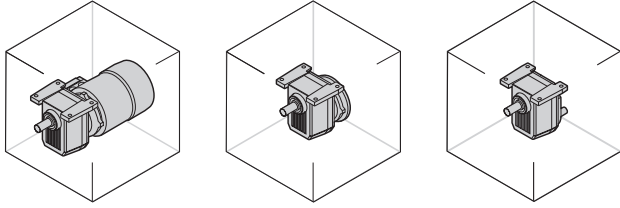
_S

_P(IEC)

_HS



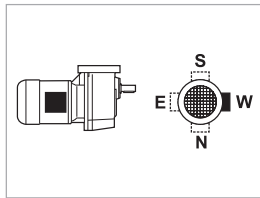
B8



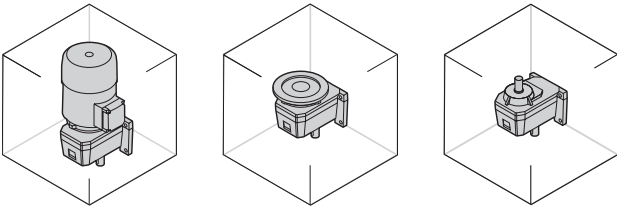
_S

_P(IEC)

_HS



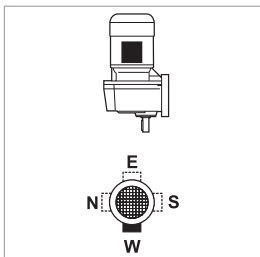
V5



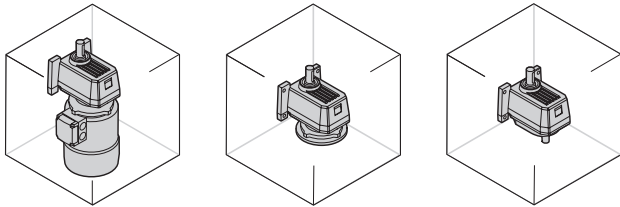
_S

_P(IEC)

_HS



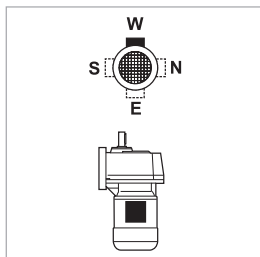
V6



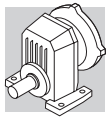
_S

_P(IEC)

_HS

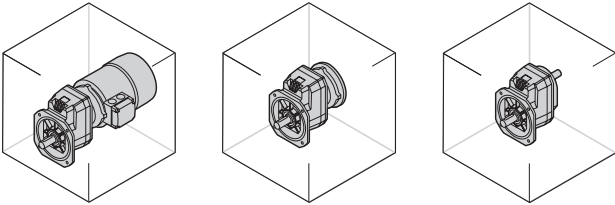


W = Default



S ... F

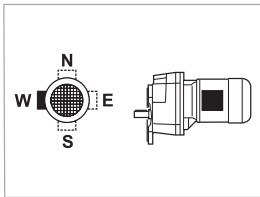
B5



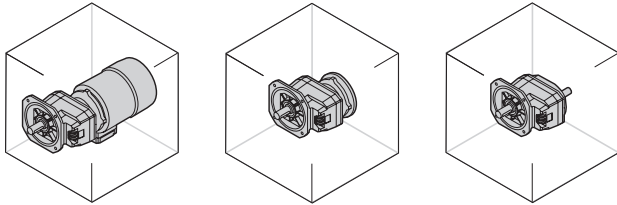
_S

_P(IEC)

_HS



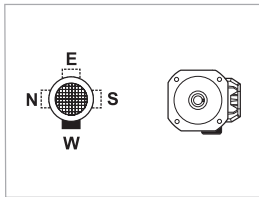
B51



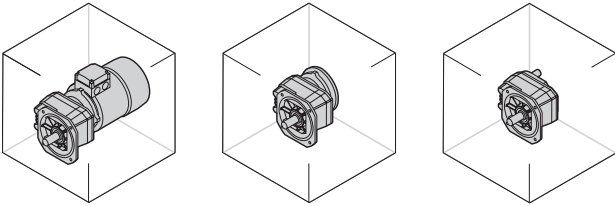
_S

_P(IEC)

_HS



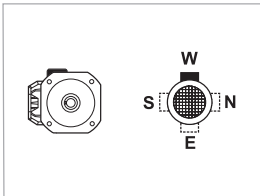
B53



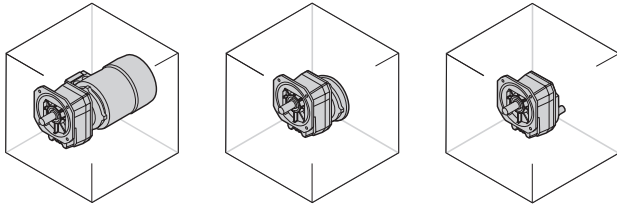
_S

_P(IEC)

_HS



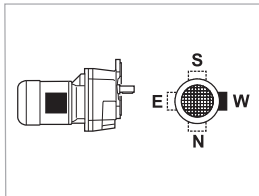
B52



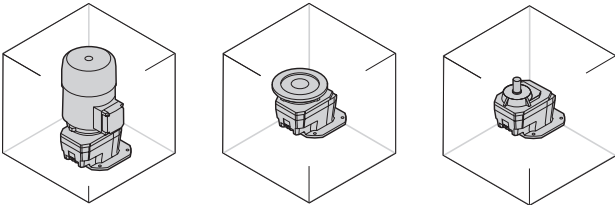
_S

_P(IEC)

_HS



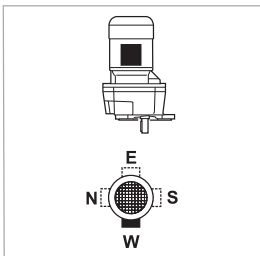
V1



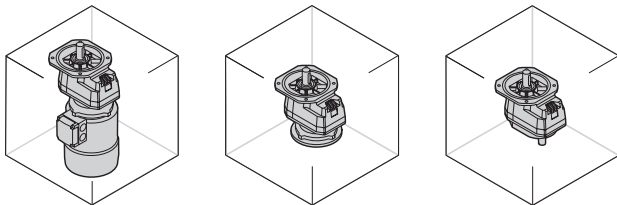
_S

_P(IEC)

_HS



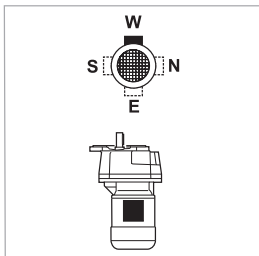
V3



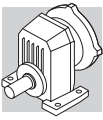
_S

_P(IEC)

_HS



W = Default



67 CHARGES RADIALES

Les organes de transmission calés sur les arbres d'entrée et/ou de sortie du réducteur génèrent des forces dont la résultante agit sur l'arbre dans le sens radial.

L'entité de ces charges doit être compatible avec la capacité d'endurance du système arbre-roulements du réducteur. Plus particulièrement, la valeur absolue de la charge appliquée (R_{c1} pour l'arbre d'entrée, R_{c2} pour l'arbre de sortie) doit être inférieure à la valeur nominale (R_{n1} pour l'arbre d'entrée, R_{n2} pour l'arbre de sortie) indiquée dans les tableaux des données techniques.

Dans les formules qui suivent, l'indice (1) se réfère à des valeurs relatives à l'arbre rapide, l'indice (2) concerne l'arbre lent.

La charge générée par une transmission extérieure peut être calculée, avec une bonne approximation, au moyen de la formule suivante :

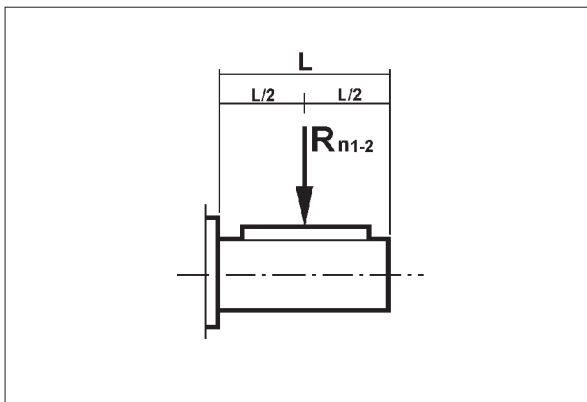
$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (44)$$

(E 64)

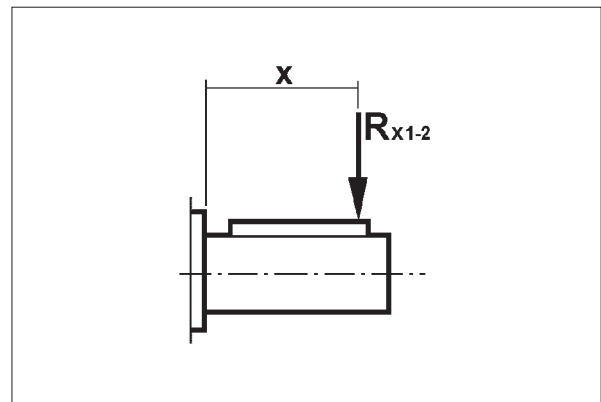
| | | | |
|------------|---|--------------|--------------------------------------|
| M_1 [Nm] | Couple appliqué à l'arbre rapide | $K_r = 1,25$ | Transmission à engrenage |
| M_2 [Nm] | Couple délivré par l'arbre lent | $K_r = 1,5$ | Transmission à courroie trapézoïdale |
| d [mm] | Diamètre primitif de l'organe monté sur l'arbre | $K_r = 2,0$ | Transmission à courroie plate |
| $K_r = 1$ | Transmission à chaîne | | |

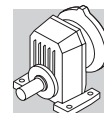
En fonction du point d'application de la charge sur l'arbre, la vérification de la compatibilité sera différente, plus particulièrement :

(E 65)



(E 66)





a) Application au milieu, tab. (E65)

La charge précédemment calculée doit être comparée avec la valeur nominale correspondante indiquée dans le catalogue, on doit vérifier :

$$R_{c1} \leq R_{n1} \text{ [arbre rapide]}$$

ou

$$R_{c2} \leq R_{n2} \text{ [arbre lent]}$$

b) Application déplacée du milieu, tab. (E66)

L'application de la charge à une distance "x" de la butée de l'arbre implique un nouveau calcul de la valeur admissible à cette distance.

La nouvelle valeur est indiquée par les symboles R_{x1} (entrée) et R_{x2} (sortie) ou peut être calculée d'après les valeurs de catalogue, respectivement R_{n1} et R_{n2} , en élaborant le facteur :

$$\frac{a}{b+x} \quad (45)$$

(E 67)

| | Constantes du réducteur | | | | | |
|---------------|-------------------------|-------|-----|--------------|------|-----|
| | Arbre lent | | | Arbre rapide | | |
| | a | b | c | a | b | c |
| S 10 1 | 61 | 46 | 200 | 21 | 1 | 300 |
| S 20 1 | 73.5 | 53.5 | 270 | 40 | 20 | 350 |
| S 30 1 | 91.5 | 66.5 | 380 | 38.5 | 18.5 | 350 |
| S 40 1 | 126.5 | 96.5 | 600 | 49.5 | 24.5 | 450 |
| S 50 1 | 153.5 | 113.5 | 680 | 49.5 | 24.5 | 450 |

La procédure de vérification comporte les pas successifs indiqués ici.

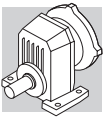
ARBRE RAPIDE

1. Calcul de :

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (46)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (47)$$



Ensuite, vérifier que :

$$R_{c1} \leq R_{x1} \quad (48)$$

ARBRE LENT

1. Calcul de :

$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (49)$$

N.B. A condition que :

$$\frac{L}{2} \leq x \leq c \quad (50)$$

Ensuite, vérifier que :

$$R_{c2} \leq R_{x2} \quad (51)$$

68 CHARGES AXIALES, A_{n1} , A_{n2}

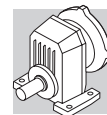
Les valeurs de charge axiale admissible sur les arbres rapides [A_{n1}] et lent [A_{n2}] peuvent être calculées, en se référant à la valeur de charge radiale correspondante [R_{n1}] et [R_{n2}] au moyen des formules suivantes.





$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0,2 \\ A_{n2} &= R_{n2} \cdot 0,2 \end{aligned} \quad (52)$$

Les valeurs de charge axiale admissible ainsi calculées se réfèrent au cas de forces axiales agissant en même temps que les charges radiales nominales.





Dans le cas où la valeur de la charge radiale agissant sur l'arbre est nulle, l'on peut considérer la charge axiale admissible [A_n] égale à 50% de la valeur de la charge radiale admissible [R_n] sur le même arbre.

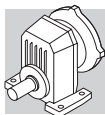
En présence de charges axiales excédant la valeur admissible, ou de forces axiales fortement supérieures aux charges radiales, il est conseillé de contacter le Service Technique Bonfiglioli Riduttori pour une vérification.


69 DONNEES TECHNIQUES MOTOREDUCTEURS
0.09 kW

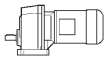



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 69 | 12.1 | 2.9 | 13.1 | 2400 | | | S301_13.1 P63 BN63A6 | 498 |
| 73 | 11.5 | 1.7 | 12.4 | 1500 | S201_12.4 S05 M05A6 | 495 | S201_12.4 P63 BN63A6 | 496 |
| 74 | 11.4 | 1.1 | 12.3 | 1160 | S101_12.3 S05 M05A6 | 493 | S101_12.3 P63 BN63A6 | 494 |
| 85 | 10.0 | 2.0 | 10.8 | 1500 | S201_10.8 S05 M05A6 | 495 | S201_10.8 P63 BN63A6 | 496 |
| 88 | 9.5 | 1.3 | 10.3 | 1100 | S101_10.3 S05 M05A6 | 493 | S101_10.3 P63 BN63A6 | 494 |
| 103 | 8.2 | 1.5 | 8.9 | 1060 | S101_8.9 S05 M05A6 | 493 | S101_8.9 P63 BN63A6 | 494 |
| 107 | 7.9 | 2.5 | 8.5 | 1500 | S201_8.5 S05 M05A6 | 495 | S201_8.5 P63 BN63A6 | 496 |
| 132 | 6.4 | 2.7 | 6.9 | 990 | S101_6.9 S05 M05A6 | 493 | S101_6.9 P63 BN63A6 | 494 |
| 149 | 5.7 | 3.0 | 6.1 | 960 | S101_6.1 S05 M05A6 | 493 | S101_6.1 P63 BN63A6 | 494 |
| 193 | 4.4 | 3.2 | 4.7 | 890 | S101_4.7 S05 M05A6 | 493 | S101_4.7 P63 BN63A6 | 494 |
| 237 | 3.6 | 3.9 | 3.8 | 830 | S101_3.8 S05 M05A6 | 493 | S101_3.8 P63 BN63A6 | 494 |
| 284 | 3.0 | 4.7 | 3.2 | 790 | S101_3.2 S05 M05A6 | 493 | S101_3.2 P63 BN63A6 | 494 |
| 364 | 2.3 | 5.2 | 2.5 | 730 | S101_2.5 S05 M05A6 | 493 | S101_2.5 P63 BN63A6 | 494 |
| 485 | 1.7 | 6.9 | 1.9 | 670 | S101_1.9 S05 M05A6 | 493 | S101_1.9 P63 BN63A6 | 494 |
| 640 | 1.3 | 9.1 | 1.4 | 610 | S101_1.4 S05 M05A6 | 493 | S101_1.4 P63 BN63A6 | 494 |

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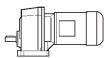

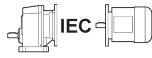

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 69 | 16.2 | 2.2 | 13.1 | 2400 | | | S301_13.1 P63 BN63A4 | 498 |
| 73 | 15.3 | 1.3 | 12.4 | 1500 | S201_12.4 S05 M05B6 | 495 | S201_12.4 P63 BN63B6 | 496 |
| 85 | 13.3 | 1.5 | 10.8 | 1500 | S201_10.8 S05 M05B6 | 495 | S201_10.8 P63 BN63B6 | 496 |
| 88 | 12.7 | 2.8 | 10.3 | 2400 | | | S301_10.3 P63 BN63B6 | 498 |
| 88 | 12.7 | 0.9 | 10.3 | 1060 | S101_10.3 S05 M05B6 | 493 | S101_10.3 P63 BN63B6 | 494 |
| 102 | 11.0 | 3.2 | 8.9 | 2400 | | | S301_8.9 P63 BN63B6 | 498 |
| 103 | 11.0 | 1.1 | 8.9 | 1030 | S101_8.9 S05 M05B6 | 493 | S101_8.9 P63 BN63B6 | 494 |
| 107 | 10.5 | 2.8 | 13.1 | 2400 | | | S301_13.1 P63 BN63B6 | 498 |
| 107 | 10.5 | 1.9 | 8.5 | 1500 | S201_8.5 S05 M05B6 | 495 | S201_8.5 P63 BN63B6 | 496 |
| 113 | 10.0 | 1.7 | 12.4 | 1500 | S201_12.4 S05 M05A4 | 495 | S201_12.4 P63 BN63A4 | 496 |
| 114 | 9.9 | 1.0 | 12.3 | 1000 | S101_12.3 S05 M05A4 | 493 | S101_12.3 P63 BN63A4 | 494 |
| 126 | 8.9 | 3.4 | 7.2 | 1500 | S201_7.2 S05 M05B6 | 495 | S201_7.2 P63 BN63B6 | 496 |
| 130 | 8.6 | 2.0 | 10.8 | 1500 | S201_10.8 S05 M05A4 | 495 | S201_10.8 P63 BN63A4 | 496 |
| 132 | 8.5 | 2.0 | 6.9 | 960 | S101_6.9 S05 M05B6 | 493 | S101_6.9 P63 BN63B6 | 494 |
| 136 | 8.3 | 1.2 | 10.3 | 960 | S101_10.3 S05 M05A4 | 493 | S101_10.3 P63 BN63A4 | 494 |
| 149 | 7.5 | 2.3 | 6.1 | 940 | S101_6.1 S05 M05B6 | 493 | S101_6.1 P63 BN63B6 | 494 |
| 158 | 7.1 | 1.4 | 8.9 | 920 | S101_8.9 S05 M05A4 | 493 | S101_8.9 P63 BN63A4 | 494 |
| 165 | 6.8 | 2.5 | 8.5 | 1500 | S201_8.5 S05 M05A4 | 495 | S201_8.5 P63 BN63A4 | 496 |
| 193 | 5.8 | 2.4 | 4.7 | 870 | S101_4.7 S05 M05B6 | 493 | S101_4.7 P63 BN63B6 | 494 |
| 203 | 5.5 | 2.7 | 6.9 | 860 | S101_6.9 S05 M05A4 | 493 | S101_6.9 P63 BN63A4 | 494 |
| 229 | 4.9 | 3.1 | 6.1 | 830 | S101_6.1 S05 M05A4 | 493 | S101_6.1 P63 BN63A4 | 494 |
| 237 | 4.7 | 2.9 | 3.8 | 820 | S101_3.8 S05 M05B6 | 493 | S101_3.8 P63 BN63B6 | 494 |
| 284 | 3.9 | 3.5 | 3.2 | 780 | S101_3.2 S05 M05B6 | 493 | S101_3.2 P63 BN63B6 | 494 |
| 296 | 3.8 | 3.2 | 4.7 | 770 | S101_4.7 S05 M05A4 | 493 | S101_4.7 P63 BN63A4 | 494 |
| 364 | 3.1 | 3.9 | 3.8 | 720 | S101_3.8 S05 M05A4 | 493 | S101_3.8 P63 BN63A4 | 494 |
| 364 | 3.1 | 3.9 | 2.5 | 720 | S101_2.5 S05 M05B6 | 493 | S101_2.5 P63 BN63B6 | 494 |
| 438 | 2.6 | 4.7 | 3.2 | 680 | S101_3.2 S05 M05A4 | 493 | S101_3.2 P63 BN63A4 | 494 |

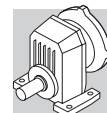


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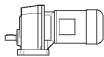



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-----|----------------------|---|--|---|---|
| 485 | 2.3 | 5.2 | 1.9 | 660 | S101_1.9 S05 M05B6 | 493 | S101_1.9 P63 BN63B6 | 494 |
| 560 | 2.0 | 5.0 | 2.5 | 630 | S101_2.5 S05 M05A4 | 493 | S101_2.5 P63 BN63A4 | 494 |
| 640 | 1.8 | 6.8 | 1.4 | 600 | S101_1.4 S05 M05B6 | 493 | S101_1.4 P63 BN63B6 | 494 |
| 747 | 1.5 | 6.6 | 1.9 | 580 | S101_1.9 S05 M05A4 | 493 | S101_1.9 P63 BN63A4 | 494 |
| 985 | 1.1 | 8.8 | 1.4 | 530 | S101_1.4 S05 M05A4 | 493 | S101_1.4 P63 BN63A4 | 494 |

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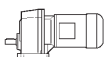



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 69 | 24.6 | 1.4 | 13.1 | 2400 | | | S301_13.1 P71 BN71A6 | 498 |
| 73 | 23.2 | 2.5 | 12.4 | 3800 | S401_12.4 S1 M1SC6 | 499 | S401_12.4 P71 BN71A6 | 500 |
| 84 | 20.1 | 1.0 | 10.8 | 1500 | | | S201_10.8 P71 BN71A6 | 496 |
| 84 | 20.0 | 2.9 | 10.7 | 3800 | S401_10.7 S1 M1SC6 | 499 | S401_10.7 P71 BN71A6 | 500 |
| 87 | 19.3 | 1.8 | 10.3 | 2400 | S301_10.3 S1 M1SC6 | 497 | S301_10.3 P71 BN71A6 | 498 |
| 101 | 16.6 | 2.1 | 8.9 | 2400 | S301_8.9 S1 M1SC6 | 497 | S301_8.9 P71 BN71A6 | 498 |
| 106 | 15.9 | 1.3 | 8.5 | 1500 | S201_8.5 S1 M1SC6 | 495 | S201_8.5 P71 BN71A6 | 496 |
| 106 | 15.9 | 1.9 | 13.1 | 2400 | | | S301_13.1 P63 BN63B4 | 498 |
| 112 | 15.1 | 1.1 | 12.4 | 1500 | S201_12.4 S05 M05B4 | 495 | S201_12.4 P63 BN63B4 | 496 |
| 112 | 15.0 | 3.3 | 12.4 | 3800 | | | S401_12.4 P63 BN63B4 | 500 |
| 125 | 13.5 | 2.2 | 7.2 | 1500 | S201_7.2 S1 M1SC6 | 495 | S201_7.2 P71 BN71A6 | 496 |
| 129 | 13.0 | 1.3 | 10.8 | 1500 | S201_10.8 S05 M05B4 | 495 | S201_10.8 P63 BN63B4 | 496 |
| 130 | 12.9 | 1.3 | 6.9 | 910 | S101_6.9 S1 M1SC6 | 493 | S101_6.9 P71 BN71A6 | 494 |
| 135 | 12.5 | 2.4 | 10.3 | 2330 | | | S301_10.3 P63 BN63B4 | 498 |
| 147 | 11.4 | 1.5 | 6.1 | 890 | S101_6.1 S1 M1SC6 | 493 | S101_6.1 P71 BN71A6 | 494 |
| 155 | 10.9 | 2.8 | 5.8 | 1500 | S201_5.8 S1 M1SC6 | 495 | S201_5.8 P71 BN71A6 | 496 |
| 156 | 10.8 | 2.8 | 8.9 | 2230 | | | S301_8.9 P63 BN63B4 | 498 |
| 157 | 10.8 | 0.9 | 8.9 | 880 | S101_8.9 S05 M05B4 | 493 | S101_8.9 P63 BN63B4 | 494 |
| 164 | 10.3 | 1.7 | 8.5 | 1500 | S201_8.5 S05 M05B4 | 495 | S201_8.5 P63 BN63B4 | 496 |
| 189 | 8.9 | 3.4 | 4.8 | 1500 | S201_4.8 S1 M1SC6 | 495 | S201_4.8 P71 BN71A6 | 496 |
| 190 | 8.8 | 1.6 | 4.7 | 830 | S101_4.7 S1 M1SC6 | 493 | S101_4.7 P71 BN71A6 | 494 |
| 192 | 8.8 | 3.0 | 7.2 | 1500 | S201_7.2 S05 M05B4 | 495 | S201_7.2 P63 BN63B4 | 496 |
| 201 | 8.4 | 1.8 | 6.9 | 820 | S101_6.9 S05 M05B4 | 493 | S101_6.9 P63 BN63B4 | 494 |
| 214 | 7.9 | 3.1 | 13.1 | 2020 | | | S301_13.1 P63 BN63A2 | 498 |
| 226 | 7.5 | 1.7 | 12.4 | 1480 | S201_12.4 S05 M05A2 | 495 | S201_12.4 P63 BN63A2 | 496 |
| 227 | 7.4 | 2.0 | 6.1 | 800 | S101_6.1 S05 M05B4 | 493 | S101_6.1 P63 BN63B4 | 494 |
| 228 | 7.4 | 1.1 | 12.3 | 800 | S101_12.3 S05 M05A2 | 493 | S101_12.3 P63 BN63A2 | 494 |
| 234 | 7.2 | 1.9 | 3.8 | 790 | S101_3.8 S1 M1SC6 | 493 | S101_3.8 P71 BN71A6 | 494 |
| 261 | 6.4 | 2.0 | 10.8 | 1420 | S201_10.8 S05 M05A2 | 495 | S201_10.8 P63 BN63A2 | 496 |
| 273 | 6.2 | 1.3 | 10.3 | 760 | S101_10.3 S05 M05A2 | 493 | S101_10.3 P63 BN63A2 | 494 |
| 281 | 6.0 | 2.3 | 3.2 | 750 | S101_3.2 S1 M1SC6 | 493 | S101_3.2 P71 BN71A6 | 494 |
| 294 | 5.7 | 2.1 | 4.7 | 750 | S101_4.7 S05 M05B4 | 493 | S101_4.7 P63 BN63B4 | 494 |
| 317 | 5.3 | 1.5 | 8.9 | 730 | S101_8.9 S05 M05A2 | 493 | S101_8.9 P63 BN63A2 | 494 |
| 331 | 5.1 | 2.6 | 8.5 | 1320 | S201_8.5 S05 M05A2 | 495 | S201_8.5 P63 BN63A2 | 496 |
| 360 | 4.7 | 2.6 | 2.5 | 700 | S101_2.5 S1 M1SC6 | 493 | S101_2.5 P71 BN71A6 | 494 |
| 361 | 4.7 | 2.6 | 3.8 | 700 | S101_3.8 S05 M05B4 | 493 | S101_3.8 P63 BN63B4 | 494 |
| 407 | 4.1 | 2.9 | 6.9 | 680 | S101_6.9 S05 M05A2 | 493 | S101_6.9 P63 BN63A2 | 494 |
| 434 | 3.9 | 3.1 | 3.2 | 670 | S101_3.2 S05 M05B4 | 493 | S101_3.2 P63 BN63B4 | 494 |
| 460 | 3.7 | 3.3 | 6.1 | 660 | S101_6.1 S05 M05A2 | 493 | S101_6.1 P63 BN63A2 | 494 |

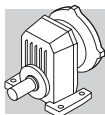


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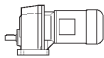



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 480 | 3.5 | 3.4 | 1.9 | 640 | S101_1.9 S1 M1SC6 | 493 | S101_1.9 P71 BN71A6 | 494 |
| 556 | 3.0 | 3.3 | 2.5 | 620 | S101_2.5 S05 M05B4 | 493 | S101_2.5 P63 BN63B4 | 494 |
| 594 | 2.8 | 3.5 | 4.7 | 610 | S101_4.7 S05 M05A2 | 493 | S101_4.7 P63 BN63A2 | 494 |
| 633 | 2.7 | 4.5 | 1.4 | 590 | S101_1.4 S1 M1SC6 | 493 | S101_1.4 P71 BN71A6 | 494 |
| 731 | 2.3 | 4.3 | 3.8 | 570 | S101_3.8 S05 M05A2 | 493 | S101_3.8 P63 BN63A2 | 494 |
| 741 | 2.3 | 4.4 | 1.9 | 570 | S101_1.9 S05 M05B4 | 493 | S101_1.9 P63 BN63B4 | 494 |
| 878 | 1.9 | 5.2 | 3.2 | 540 | S101_3.2 S05 M05A2 | 493 | S101_3.2 P63 BN63A2 | 494 |
| 978 | 1.7 | 5.8 | 1.4 | 520 | S101_1.4 S05 M05B4 | 493 | S101_1.4 P63 BN63B4 | 494 |
| 1124 | 1.5 | 5.3 | 2.5 | 500 | S101_2.5 S05 M05A2 | 493 | S101_2.5 P63 BN63A2 | 494 |
| 1499 | 1.1 | 7.1 | 1.9 | 460 | S101_1.9 S05 M05A2 | 493 | S101_1.9 P63 BN63A2 | 494 |
| 1977 | 0.9 | 9.4 | 1.4 | 420 | S101_1.4 S05 M05A2 | 493 | S101_1.4 P63 BN63A2 | 494 |

0.25 kW





| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 69 | 34.1 | 1.0 | 13.1 | 2400 | | | S301_13.1 P71 BN71B6 | 498 |
| 70 | 33.5 | 3.0 | 12.9 | 6520 | S501_12.9 S1 M1SD6 | 501 | S501_12.9 P71 BN71B6 | 502 |
| 73 | 32.2 | 1.8 | 12.4 | 3800 | S401_12.4 S1 M1SD6 | 499 | S401_12.4 P71 BN71B6 | 500 |
| 84 | 27.7 | 2.1 | 10.7 | 3800 | S401_10.7 S1 M1SD6 | 499 | S401_10.7 P71 BN71B6 | 500 |
| 87 | 26.8 | 1.3 | 10.3 | 2400 | S301_10.3 S1 M1SD6 | 497 | S301_10.3 P71 BN71B6 | 498 |
| 101 | 23.1 | 1.5 | 8.9 | 2400 | S301_8.9 S1 M1SD6 | 497 | S301_8.9 P71 BN71B6 | 498 |
| 104 | 22.5 | 3.1 | 8.6 | 3800 | S401_8.6 S1 M1SD6 | 499 | S401_8.6 P71 BN71B6 | 500 |
| 105 | 22.3 | 1.3 | 13.1 | 2400 | | | S301_13.1 P71 BN71A4 | 498 |
| 106 | 22.1 | 0.9 | 8.5 | 1500 | S201_8.5 S1 M1SD6 | 495 | S201_8.5 P71 BN71B6 | 496 |
| 111 | 21.1 | 2.4 | 12.4 | 3800 | | | S401_12.4 P71 BN71A4 | 500 |
| 125 | 18.8 | 1.6 | 7.2 | 1500 | S201_7.2 S1 M1SD6 | 495 | S201_7.2 P71 BN71B6 | 496 |
| 127 | 18.4 | 3.1 | 7.1 | 2340 | S301_7.1 S1 M1SD6 | 497 | S301_7.1 P71 BN71B6 | 498 |
| 128 | 18.3 | 0.9 | 10.8 | 1500 | S201_10.8 S05 M05C4 | 495 | S201_10.8 P71 BN71A4 | 496 |
| 129 | 18.2 | 2.8 | 10.7 | 3800 | | | S401_10.7 P71 BN71A4 | 500 |
| 130 | 17.9 | 0.9 | 6.9 | 850 | S101_6.9 S1 M1SD6 | 493 | S101_6.9 P71 BN71B6 | 494 |
| 133 | 17.5 | 1.7 | 10.3 | 2300 | | | S301_10.3 P71 BN71A4 | 498 |
| 147 | 15.9 | 1.1 | 6.1 | 840 | S101_6.1 S1 M1SD6 | 493 | S101_6.1 P71 BN71B6 | 494 |
| 155 | 15.1 | 2.0 | 5.8 | 1500 | S201_5.8 S1 M1SD6 | 495 | S201_5.8 P71 BN71B6 | 496 |
| 155 | 15.1 | 2.0 | 8.9 | 2200 | | | S301_8.9 P71 BN71A4 | 498 |
| 162 | 14.5 | 1.2 | 8.5 | 1500 | S201_8.5 S05 M05C4 | 495 | S201_8.5 P71 BN71A4 | 496 |
| 189 | 12.4 | 2.4 | 4.8 | 1500 | S201_4.8 S1 M1SD6 | 495 | S201_4.8 P71 BN71B6 | 496 |
| 190 | 12.3 | 1.1 | 4.7 | 790 | S101_4.7 S1 M1SD6 | 493 | S101_4.7 P71 BN71B6 | 494 |
| 190 | 12.3 | 2.1 | 7.2 | 1500 | S201_7.2 S05 M05C4 | 495 | S201_7.2 P71 BN71A4 | 496 |
| 199 | 11.7 | 1.3 | 6.9 | 780 | S101_6.9 S05 M05C4 | 493 | S101_6.9 P71 BN71A4 | 494 |
| 214 | 10.9 | 2.2 | 13.1 | 2000 | | | S301_13.1 P63 BN63B2 | 498 |
| 225 | 10.4 | 1.4 | 6.1 | 770 | S101_6.1 S05 M05C4 | 493 | S101_6.1 P71 BN71A4 | 494 |
| 226 | 10.3 | 1.3 | 12.4 | 1450 | S201_12.4 S05 M05B2 | 495 | S201_12.4 P63 BN63B2 | 496 |
| 229 | 10.2 | 2.9 | 3.9 | 1440 | S201_3.9 S1 M1SD6 | 495 | S201_3.9 P71 BN71B6 | 496 |
| 234 | 10.0 | 1.4 | 3.8 | 750 | S101_3.8 S1 M1SD6 | 493 | S101_3.8 P71 BN71B6 | 494 |
| 236 | 9.9 | 2.6 | 5.8 | 1430 | S201_5.8 S05 M05C4 | 495 | S201_5.8 P71 BN71A4 | 496 |
| 261 | 9.0 | 1.5 | 10.8 | 1390 | S201_10.8 S05 M05B2 | 495 | S201_10.8 P63 BN63B2 | 496 |
| 273 | 8.6 | 2.8 | 10.3 | 1860 | | | S301_10.3 P63 BN63B2 | 498 |
| 273 | 8.6 | 0.9 | 10.3 | 730 | S101_10.3 S05 M05B2 | 493 | S101_10.3 P63 BN63B2 | 494 |

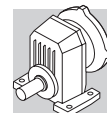


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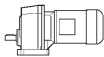



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-----|----------------------|---|--|---|---|
| 281 | 8.3 | 1.7 | 3.2 | 720 | S101_3.2 S1 M1SD6 | 493 | S101_3.2 P71 BN71B6 | 494 |
| 288 | 8.1 | 3.2 | 4.8 | 1350 | S201_4.8 S05 M05C4 | 495 | S201_4.8 P71 BN71A4 | 496 |
| 291 | 8.0 | 1.5 | 4.7 | 720 | S101_4.7 S05 M05C4 | 493 | S101_4.7 P71 BN71A4 | 494 |
| 316 | 7.4 | 3.2 | 8.9 | 1770 | | | S301_8.9 P63 BN63B2 | 498 |
| 317 | 7.4 | 1.1 | 8.9 | 710 | S101_8.9 S05 M05B2 | 493 | S101_8.9 P63 BN63B2 | 494 |
| 331 | 7.1 | 1.8 | 8.5 | 1300 | S201_8.5 S05 M05B2 | 495 | S201_8.5 P63 BN63B2 | 496 |
| 358 | 6.5 | 1.8 | 3.8 | 680 | S101_3.8 S05 M05C4 | 493 | S101_3.8 P71 BN71A4 | 494 |
| 360 | 6.5 | 1.8 | 2.5 | 680 | S101_2.5 S1 M1SD6 | 493 | S101_2.5 P71 BN71B6 | 494 |
| 389 | 6.0 | 3.5 | 7.2 | 1240 | S201_7.2 S05 M05B2 | 495 | S201_7.2 P63 BN63B2 | 496 |
| 407 | 5.7 | 2.1 | 6.9 | 660 | S101_6.9 S05 M05B2 | 493 | S101_6.9 P63 BN63B2 | 494 |
| 430 | 5.4 | 2.2 | 3.2 | 650 | S101_3.2 S05 M05C4 | 493 | S101_3.2 P71 BN71A4 | 494 |
| 460 | 5.1 | 2.4 | 6.1 | 640 | S101_6.1 S05 M05B2 | 493 | S101_6.1 P63 BN63B2 | 494 |
| 480 | 4.9 | 2.5 | 1.9 | 620 | S101_1.9 S1 M1SD6 | 493 | S101_1.9 P71 BN71B6 | 494 |
| 550 | 4.3 | 2.4 | 2.5 | 610 | S101_2.5 S05 M05C4 | 493 | S101_2.5 P71 BN71A4 | 494 |
| 594 | 3.9 | 2.5 | 4.7 | 600 | S101_4.7 S05 M05B2 | 493 | S101_4.7 P63 BN63B2 | 494 |
| 633 | 3.7 | 3.2 | 1.4 | 580 | S101_1.4 S1 M1SD6 | 493 | S101_1.4 P71 BN71B6 | 494 |
| 731 | 3.2 | 3.1 | 3.8 | 560 | S101_3.8 S05 M05B2 | 493 | S101_3.8 P63 BN63B2 | 494 |
| 733 | 3.2 | 3.1 | 1.9 | 560 | S101_1.9 S05 M05C4 | 493 | S101_1.9 P71 BN71A4 | 494 |
| 878 | 2.7 | 3.8 | 3.2 | 530 | S101_3.2 S05 M05B2 | 493 | S101_3.2 P63 BN63B2 | 494 |
| 968 | 2.4 | 4.1 | 1.4 | 510 | S101_1.4 S05 M05C4 | 493 | S101_1.4 P71 BN71A4 | 494 |
| 1124 | 2.1 | 3.8 | 2.5 | 500 | S101_2.5 S05 M05B2 | 493 | S101_2.5 P63 BN63B2 | 494 |
| 1499 | 1.6 | 5.1 | 1.9 | 450 | S101_1.9 S05 M05B2 | 493 | S101_1.9 P63 BN63B2 | 494 |
| 1977 | 1.2 | 6.8 | 1.4 | 420 | S101_1.4 S05 M05B2 | 493 | S101_1.4 P63 BN63B2 | 494 |

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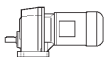



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 71 | 49.0 | 2.0 | 12.9 | 6420 | S501_12.9 S1 M1LA6 | 501 | S501_12.9 P80 BN80A6 | 502 |
| 73 | 47.2 | 1.2 | 12.4 | 3800 | S401_12.4 S1 M1LA6 | 499 | S401_12.4 P80 BN80A6 | 500 |
| 85 | 40.6 | 1.4 | 10.7 | 3800 | S401_10.7 S1 M1LA6 | 499 | S401_10.7 P80 BN80A6 | 500 |
| 87 | 39.8 | 2.9 | 10.5 | 6020 | S501_10.5 S1 M1LA6 | 501 | S501_10.5 P80 BN80A6 | 502 |
| 102 | 33.8 | 1.0 | 8.9 | 2400 | S301_8.9 S1 M1LA6 | 497 | S301_8.9 P80 BN80A6 | 498 |
| 104 | 33.2 | 0.9 | 13.1 | 2390 | | | S301_13.1 P71 BN71B4 | 498 |
| 105 | 32.9 | 2.1 | 8.6 | 3800 | S401_8.6 S1 M1LA6 | 499 | S401_8.6 P80 BN80A6 | 500 |
| 106 | 32.6 | 3.1 | 12.9 | 5650 | S501_12.9 S1 M1SD4 | 501 | S501_12.9 P71 BN71B4 | 502 |
| 110 | 31.3 | 1.6 | 12.4 | 3800 | S401_12.4 S1 M1SD4 | 499 | S401_12.4 P71 BN71B4 | 500 |
| 126 | 27.5 | 1.1 | 7.2 | 1500 | S201_7.2 S1 M1LA6 | 495 | S201_7.2 P80 BN80A6 | 496 |
| 127 | 27.2 | 3.3 | 7.2 | 3800 | S401_7.2 S1 M1LA6 | 499 | S401_7.2 P80 BN80A6 | 500 |
| 128 | 27.0 | 2.1 | 7.1 | 2260 | S301_7.1 S1 M1LA6 | 497 | S301_7.1 P80 BN80A6 | 498 |
| 128 | 27.0 | 1.9 | 10.7 | 3800 | S401_10.7 S1 M1SD4 | 499 | S401_10.7 P71 BN71B4 | 500 |
| 133 | 26.0 | 1.2 | 10.3 | 2240 | S301_10.3 S1 M1SD4 | 497 | S301_10.3 P71 BN71B4 | 498 |
| 154 | 22.5 | 1.3 | 8.9 | 2150 | S301_8.9 S1 M1SD4 | 497 | S301_8.9 P71 BN71B4 | 498 |
| 156 | 22.2 | 2.6 | 5.8 | 2140 | S301_5.8 S1 M1LA6 | 497 | S301_5.8 P80 BN80A6 | 498 |
| 156 | 22.1 | 1.4 | 5.8 | 1500 | S201_5.8 S1 M1LA6 | 495 | S201_5.8 P80 BN80A6 | 496 |
| 159 | 21.8 | 2.7 | 8.6 | 3610 | S401_8.6 S1 M1SD4 | 499 | S401_8.6 P71 BN71B4 | 500 |
| 184 | 18.8 | 3.1 | 4.9 | 2040 | S301_4.9 S1 M1LA6 | 497 | S301_4.9 P80 BN80A6 | 498 |
| 190 | 18.3 | 1.4 | 7.2 | 1460 | S201_7.2 S1 M1SD4 | 495 | S201_7.2 P71 BN71B4 | 496 |
| 191 | 18.1 | 1.7 | 4.8 | 1460 | S201_4.8 S1 M1LA6 | 495 | S201_4.8 P80 BN80A6 | 496 |

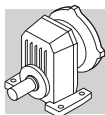


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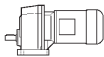



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 193 | 17.9 | 2.8 | 7.1 | 2020 | S301_7.1 S1 M1SD4 | 497 | S301_7.1 P71 BN71B4 | 498 |
| 214 | 16.2 | 1.5 | 13.1 | 1960 | | | S301_13.1 P71 BN71A2 | 498 |
| 224 | 15.4 | 1.0 | 6.1 | 710 | S101_6.1 S1 M1SD4 | 493 | S101_6.1 P71 BN71B4 | 494 |
| 227 | 15.3 | 2.6 | 12.4 | 3230 | | | S401_12.4 P71 BN71A2 | 500 |
| 231 | 15.0 | 2.0 | 3.9 | 1380 | S201_3.9 S1 M1LA6 | 495 | S201_3.9 P80 BN80A6 | 496 |
| 234 | 14.8 | 3.4 | 5.8 | 1900 | S301_5.8 S1 M1SD4 | 497 | S301_5.8 P71 BN71B4 | 498 |
| 235 | 14.7 | 1.8 | 5.8 | 1390 | S201_5.8 S1 M1SD4 | 495 | S201_5.8 P71 BN71B4 | 496 |
| 237 | 14.6 | 1.0 | 3.8 | 690 | S101_3.8 S1 M1LA6 | 493 | S101_3.8 P80 BN80A6 | 494 |
| 261 | 13.2 | 1.0 | 10.8 | 1350 | S201_10.8 S05 M05C2 | 495 | S201_10.8 P71 BN71A2 | 496 |
| 263 | 13.1 | 3.0 | 10.7 | 3080 | | | S401_10.7 P71 BN71A2 | 500 |
| 273 | 12.7 | 1.9 | 10.3 | 1820 | | | S301_10.3 P71 BN71A2 | 498 |
| 284 | 12.2 | 1.1 | 3.2 | 670 | S101_3.2 S1 M1LA6 | 493 | S101_3.2 P80 BN80A6 | 494 |
| 287 | 12.1 | 2.2 | 4.8 | 1310 | S201_4.8 S1 M1SD4 | 495 | S201_4.8 P71 BN71B4 | 496 |
| 290 | 11.9 | 1.0 | 4.7 | 670 | S101_4.7 S1 M1SD4 | 493 | S101_4.7 P71 BN71B4 | 494 |
| 293 | 11.8 | 2.5 | 3.1 | 1300 | S201_3.1 S1 M1LA6 | 495 | S201_3.1 P80 BN80A6 | 496 |
| 316 | 11.0 | 2.2 | 8.9 | 1740 | | | S301_8.9 P71 BN71A2 | 498 |
| 331 | 10.5 | 1.2 | 8.5 | 1270 | S201_8.5 S05 M05C2 | 495 | S201_8.5 P71 BN71A2 | 496 |
| 348 | 9.9 | 2.6 | 3.9 | 1240 | S201_3.9 S1 M1SD4 | 495 | S201_3.9 P71 BN71B4 | 496 |
| 356 | 9.7 | 1.2 | 3.8 | 640 | S101_3.8 S1 M1SD4 | 493 | S101_3.8 P71 BN71B4 | 494 |
| 364 | 9.5 | 1.3 | 2.5 | 630 | S101_2.5 S1 M1LA6 | 493 | S101_2.5 P80 BN80A6 | 494 |
| 373 | 9.3 | 3.2 | 2.4 | 1210 | S201_2.4 S1 M1LA6 | 495 | S201_2.4 P80 BN80A6 | 496 |
| 389 | 8.9 | 2.4 | 7.2 | 1210 | S201_7.2 S05 M05C2 | 495 | S201_7.2 P71 BN71A2 | 496 |
| 407 | 8.5 | 1.4 | 6.9 | 630 | S101_6.9 S05 M05C2 | 493 | S101_6.9 P71 BN71A2 | 494 |
| 428 | 8.1 | 1.5 | 3.2 | 620 | S101_3.2 S1 M1SD4 | 493 | S101_3.2 P71 BN71B4 | 494 |
| 440 | 7.9 | 3.3 | 3.1 | 1160 | S201_3.1 S1 M1SD4 | 495 | S201_3.1 P71 BN71B4 | 496 |
| 460 | 7.5 | 1.6 | 6.1 | 610 | S101_6.1 S05 M05C2 | 493 | S101_6.1 P71 BN71A2 | 494 |
| 480 | 7.2 | 2.8 | 1.9 | 1130 | S201_1.9 S1 M1LA6 | 495 | S201_1.9 P80 BN80A6 | 496 |
| 483 | 7.2 | 2.9 | 5.8 | 1130 | S201_5.8 S05 M05C2 | 495 | S201_5.8 P71 BN71A2 | 496 |
| 485 | 7.1 | 1.7 | 1.9 | 590 | S101_1.9 S1 M1LA6 | 493 | S101_1.9 P80 BN80A6 | 494 |
| 548 | 6.3 | 1.6 | 2.5 | 580 | S101_2.5 S1 M1SD4 | 493 | S101_2.5 P71 BN71B4 | 494 |
| 594 | 5.8 | 1.7 | 4.7 | 570 | S101_4.7 S05 M05C2 | 493 | S101_4.7 P71 BN71A2 | 494 |
| 640 | 5.4 | 2.2 | 1.4 | 550 | S101_1.4 S1 M1LA6 | 493 | S101_1.4 P80 BN80A6 | 494 |
| 731 | 4.7 | 2.1 | 3.8 | 540 | S101_3.8 S05 M05C2 | 493 | S101_3.8 P71 BN71A2 | 494 |
| 731 | 4.7 | 2.1 | 1.9 | 540 | S101_1.9 S1 M1SD4 | 493 | S101_1.9 P71 BN71B4 | 494 |
| 878 | 3.9 | 2.5 | 3.2 | 520 | S101_3.2 S05 M05C2 | 493 | S101_3.2 P71 BN71A2 | 494 |
| 964 | 3.6 | 2.8 | 1.4 | 500 | S101_1.4 S1 M1SD4 | 493 | S101_1.4 P71 BN71B4 | 494 |
| 1124 | 3.1 | 2.6 | 2.5 | 480 | S101_2.5 S05 M05C2 | 493 | S101_2.5 P71 BN71A2 | 494 |
| 1499 | 2.3 | 3.5 | 1.9 | 440 | S101_1.9 S05 M05C2 | 493 | S101_1.9 P71 BN71A2 | 494 |
| 1977 | 1.8 | 4.6 | 1.4 | 410 | S101_1.4 S05 M05C2 | 493 | S101_1.4 P71 BN71A2 | 494 |

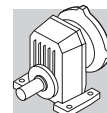
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| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 71 | 72.1 | 1.4 | 12.9 | 6290 | S501_12.9 S2 M2SA6 | 501 | S501_12.9 P80 BN80B6 | 502 |
| 86 | 59.7 | 1.0 | 10.7 | 3800 | S401_10.7 S2 M2SA6 | 499 | S401_10.7 P80 BN80B6 | 500 |
| 88 | 58.5 | 2.0 | 10.5 | 5910 | S501_10.5 S2 M2SA6 | 501 | S501_10.5 P80 BN80B6 | 502 |
| 105 | 49.1 | 2.5 | 8.8 | 5600 | S501_8.8 S2 M2SA6 | 501 | S501_8.8 P80 BN80B6 | 502 |
| 107 | 48.3 | 1.4 | 8.6 | 3800 | S401_8.6 S2 M2SA6 | 499 | S401_8.6 P80 BN80B6 | 500 |

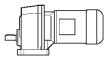





0.55 kW





| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 107 | 48.1 | 2.1 | 12.9 | 5560 | S501_12.9 S1 M1LA4 | 501 | S501_12.9 P80 BN80A4 | 502 |
| 111 | 46.3 | 1.1 | 12.4 | 3800 | S401_12.4 S1 M1LA4 | 499 | S401_12.4 P80 BN80A4 | 500 |
| 124 | 41.4 | 3.4 | 7.4 | 5310 | S501_7.4 S2 M2SA6 | 501 | S501_7.4 P80 BN80B6 | 502 |
| 129 | 40.0 | 2.2 | 7.2 | 3780 | S401_7.2 S2 M2SA6 | 499 | S401_7.2 P80 BN80B6 | 500 |
| 129 | 39.8 | 1.3 | 10.7 | 3770 | S401_10.7 S1 M1LA4 | 499 | S401_10.7 P80 BN80A4 | 500 |
| 130 | 39.7 | 1.5 | 7.1 | 2150 | S301_7.1 S2 M2SA6 | 497 | S301_7.1 P80 BN80B6 | 498 |
| 132 | 39.0 | 2.8 | 10.5 | 5220 | S501_10.5 S1 M1LA4 | 501 | S501_10.5 P80 BN80A4 | 502 |
| 152 | 33.9 | 3.1 | 6.1 | 3600 | S401_6.1 S2 M2SA6 | 499 | S401_6.1 P80 BN80B6 | 500 |
| 155 | 33.2 | 0.9 | 8.9 | 2060 | S301_8.9 S1 M1LA4 | 497 | S301_8.9 P80 BN80A4 | 498 |
| 157 | 32.7 | 1.8 | 5.8 | 2050 | S301_5.8 S2 M2SA6 | 497 | S301_5.8 P80 BN80B6 | 498 |
| 157 | 32.7 | 3.4 | 8.8 | 4940 | S501_8.8 S1 M1LA4 | 501 | S501_8.8 P80 BN80A4 | 502 |
| 158 | 32.6 | 0.9 | 5.8 | 1420 | S201_5.8 S2 M2SA6 | 495 | S201_5.8 P80 BN80B6 | 496 |
| 160 | 32.2 | 1.9 | 8.6 | 3540 | S401_8.6 S1 M1LA4 | 499 | S401_8.6 P80 BN80A4 | 500 |
| 186 | 27.6 | 2.1 | 4.9 | 1960 | S301_4.9 S2 M2SA6 | 497 | S301_4.9 P80 BN80B6 | 498 |
| 191 | 26.9 | 1.0 | 7.2 | 1370 | S201_7.2 S1 M1LA4 | 495 | S201_7.2 P80 BN80A4 | 496 |
| 193 | 26.7 | 1.1 | 4.8 | 1370 | S201_4.8 S2 M2SA6 | 495 | S201_4.8 P80 BN80B6 | 496 |
| 193 | 26.7 | 3.0 | 7.2 | 3350 | S401_7.2 S1 M1LA4 | 499 | S401_7.2 P80 BN80A4 | 500 |
| 195 | 26.4 | 1.9 | 7.1 | 1940 | S301_7.1 S1 M1LA4 | 497 | S301_7.1 P80 BN80A4 | 498 |
| 214 | 24.0 | 1.0 | 13.1 | 1900 | | | S301_13.1 P71 BN71B2 | 498 |
| 218 | 23.6 | 3.4 | 12.9 | 4460 | S501_12.9 S1 M1SD2 | 501 | S501_12.9 P71 BN71B2 | 502 |
| 227 | 22.7 | 1.8 | 12.4 | 3190 | S401_12.4 S1 M1SD2 | 499 | S401_12.4 P71 BN71B2 | 500 |
| 233 | 22.1 | 2.6 | 3.9 | 1850 | S301_3.9 S2 M2SA6 | 497 | S301_3.9 P80 BN80B6 | 498 |
| 234 | 22.0 | 1.4 | 3.9 | 1300 | S201_3.9 S2 M2SA6 | 495 | S201_3.9 P80 BN80B6 | 496 |
| 236 | 21.8 | 2.3 | 5.8 | 1840 | S301_5.8 S1 M1LA4 | 497 | S301_5.8 P80 BN80A4 | 498 |
| 237 | 21.7 | 1.2 | 5.8 | 1310 | S201_5.8 S1 M1LA4 | 495 | S201_5.8 P80 BN80A4 | 496 |
| 263 | 19.5 | 2.0 | 10.7 | 3040 | S401_10.7 S1 M1SD2 | 499 | S401_10.7 P71 BN71B2 | 500 |
| 273 | 18.9 | 1.3 | 10.3 | 1780 | S301_10.3 S1 M1SD2 | 497 | S301_10.3 P71 BN71B2 | 498 |
| 280 | 18.4 | 2.7 | 4.9 | 1760 | S301_4.9 S1 M1LA4 | 497 | S301_4.9 P80 BN80A4 | 498 |
| 289 | 17.8 | 1.5 | 4.8 | 1250 | S201_4.8 S1 M1LA4 | 495 | S201_4.8 P80 BN80A4 | 496 |
| 296 | 17.4 | 1.7 | 3.1 | 1230 | S201_3.1 S2 M2SA6 | 495 | S201_3.1 P80 BN80B6 | 496 |
| 300 | 17.1 | 3.4 | 3.1 | 1720 | S301_3.1 S2 M2SA6 | 497 | S301_3.1 P80 BN80B6 | 498 |
| 316 | 16.3 | 1.5 | 8.9 | 1700 | S301_8.9 S1 M1SD2 | 497 | S301_8.9 P71 BN71B2 | 498 |
| 325 | 15.8 | 3.0 | 8.6 | 2850 | S401_8.6 S1 M1SD2 | 499 | S401_8.6 P71 BN71B2 | 500 |
| 350 | 14.7 | 3.4 | 3.9 | 1650 | S301_3.9 S1 M1LA4 | 497 | S301_3.9 P80 BN80A4 | 498 |
| 351 | 14.7 | 1.8 | 3.9 | 1190 | S201_3.9 S1 M1LA4 | 495 | S201_3.9 P80 BN80A4 | 496 |
| 377 | 13.6 | 2.2 | 2.4 | 1160 | S201_2.4 S2 M2SA6 | 495 | S201_2.4 P80 BN80B6 | 496 |
| 389 | 13.2 | 1.6 | 7.2 | 1160 | S201_7.2 S1 M1SD2 | 495 | S201_7.2 P71 BN71B2 | 496 |
| 396 | 13.0 | 3.1 | 7.1 | 1600 | S301_7.1 S1 M1SD2 | 497 | S301_7.1 P71 BN71B2 | 498 |
| 407 | 12.6 | 0.9 | 6.9 | 570 | S101_6.9 S1 M1SD2 | 493 | S101_6.9 P71 BN71B2 | 494 |
| 431 | 11.9 | 1.0 | 3.2 | 560 | S101_3.2 S1 M1LA4 | 493 | S101_3.2 P80 BN80A4 | 494 |
| 444 | 11.6 | 2.2 | 3.1 | 1120 | S201_3.1 S1 M1LA4 | 495 | S201_3.1 P80 BN80A4 | 496 |
| 460 | 11.2 | 1.1 | 6.1 | 570 | S101_6.1 S1 M1SD2 | 493 | S101_6.1 P71 BN71B2 | 494 |
| 483 | 10.7 | 2.0 | 5.8 | 1100 | S201_5.8 S1 M1SD2 | 495 | S201_5.8 P71 BN71B2 | 496 |
| 486 | 10.6 | 1.9 | 1.9 | 1080 | S201_1.9 S2 M2SA6 | 495 | S201_1.9 P80 BN80B6 | 496 |
| 491 | 10.5 | 1.1 | 1.9 | 540 | S101_1.9 S2 M2SA6 | 493 | S101_1.9 P80 BN80B6 | 494 |
| 504 | 10.2 | 3.4 | 1.8 | 1470 | S301_1.8 S2 M2SA6 | 497 | S301_1.8 P80 BN80B6 | 498 |
| 552 | 9.3 | 1.1 | 2.5 | 540 | S101_2.5 S1 M1LA4 | 493 | S101_2.5 P80 BN80A4 | 494 |
| 566 | 9.1 | 2.9 | 2.4 | 1050 | S201_2.4 S1 M1LA4 | 495 | S201_2.4 P80 BN80A4 | 496 |
| 589 | 8.7 | 2.4 | 4.8 | 1040 | S201_4.8 S1 M1SD2 | 495 | S201_4.8 P71 BN71B2 | 496 |
| 594 | 8.7 | 1.2 | 4.7 | 540 | S101_4.7 S1 M1SD2 | 493 | S101_4.7 P71 BN71B2 | 494 |
| 647 | 8.0 | 1.5 | 1.4 | 510 | S101_1.4 S2 M2SA6 | 493 | S101_1.4 P80 BN80B6 | 494 |

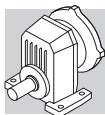


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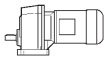



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 661 | 7.8 | 2.6 | 1.4 | 990 | S201_1.4 S2 M2SA6 | 495 | S201_1.4 P80 BN80B6 | 496 |
| 714 | 7.2 | 2.9 | 3.9 | 980 | S201_3.9 S1 M1SD2 | 495 | S201_3.9 P71 BN71B2 | 496 |
| 728 | 7.1 | 2.4 | 1.9 | 970 | S201_1.9 S1 M1LA4 | 495 | S201_1.9 P80 BN80A4 | 496 |
| 731 | 7.0 | 1.4 | 3.8 | 510 | S101_3.8 S1 M1SD2 | 493 | S101_3.8 P71 BN71B2 | 494 |
| 736 | 7.0 | 1.4 | 1.9 | 500 | S101_1.9 S1 M1LA4 | 493 | S101_1.9 P80 BN80A4 | 494 |
| 878 | 5.9 | 1.7 | 3.2 | 490 | S101_3.2 S1 M1SD2 | 493 | S101_3.2 P71 BN71B2 | 494 |
| 971 | 5.3 | 1.9 | 1.4 | 470 | S101_1.4 S1 M1LA4 | 493 | S101_1.4 P80 BN80A4 | 494 |
| 992 | 5.2 | 3.3 | 1.4 | 890 | | | S201_1.4 P80 BN80A4 | 496 |
| 1124 | 4.6 | 1.7 | 2.5 | 460 | S101_2.5 S1 M1SD2 | 493 | S101_2.5 P71 BN71B2 | 494 |
| 1499 | 3.4 | 2.3 | 1.9 | 430 | S101_1.9 S1 M1SD2 | 493 | S101_1.9 P71 BN71B2 | 494 |
| 1977 | 2.6 | 3.1 | 1.4 | 390 | S101_1.4 S1 M1SD2 | 493 | S101_1.4 P71 BN71B2 | 494 |

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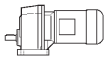



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 71 | 98.3 | 1.0 | 12.9 | 6170 | S501_12.9 S2 M2SB6 | 501 | S501_12.9 P90 BN90S6 | 502 |
| 88 | 79.8 | 1.4 | 10.5 | 5810 | S501_10.5 S2 M2SB6 | 501 | S501_10.5 P90 BN90S6 | 502 |
| 105 | 66.9 | 1.9 | 8.8 | 5520 | S501_8.8 S2 M2SB6 | 501 | S501_8.8 P90 BN90S6 | 502 |
| 107 | 65.9 | 1.1 | 8.6 | 3800 | S401_8.6 S2 M2SB6 | 499 | S401_8.6 P90 BN90S6 | 500 |
| 109 | 64.6 | 1.5 | 12.9 | 5460 | S501_12.9 S2 M2SA4 | 501 | S501_12.9 P80 BN80B4 | 502 |
| 124 | 56.5 | 2.5 | 7.4 | 5240 | S501_7.4 S2 M2SB6 | 501 | S501_7.4 P90 BN90S6 | 502 |
| 129 | 54.6 | 1.6 | 7.2 | 3700 | S401_7.2 S2 M2SB6 | 499 | S401_7.2 P90 BN90S6 | 500 |
| 130 | 54.1 | 1.1 | 7.1 | 2040 | S301_7.1 S2 M2SB6 | 497 | S301_7.1 P90 BN90S6 | 498 |
| 131 | 53.5 | 0.9 | 10.7 | 3670 | S401_10.7 S2 M2SA4 | 499 | S401_10.7 P80 BN80B4 | 500 |
| 134 | 52.4 | 2.1 | 10.5 | 5130 | S501_10.5 S2 M2SA4 | 501 | S501_10.5 P80 BN80B4 | 502 |
| 152 | 46.3 | 2.3 | 6.1 | 3530 | S401_6.1 S2 M2SB6 | 499 | S401_6.1 P90 BN90S6 | 500 |
| 152 | 46.2 | 3.2 | 6.1 | 4940 | S501_6.1 S2 M2SB6 | 501 | S501_6.1 P90 BN90S6 | 502 |
| 157 | 44.6 | 1.3 | 5.8 | 1960 | S301_5.8 S2 M2SB6 | 497 | S301_5.8 P90 BN90S6 | 498 |
| 160 | 44.0 | 2.5 | 8.8 | 4870 | S501_8.8 S2 M2SA4 | 501 | S501_8.8 P80 BN80B4 | 502 |
| 162 | 43.3 | 1.4 | 8.6 | 3460 | S401_8.6 S2 M2SA4 | 499 | S401_8.6 P80 BN80B4 | 500 |
| 186 | 37.6 | 1.5 | 4.9 | 1880 | S301_4.9 S2 M2SB6 | 497 | S301_4.9 P90 BN90S6 | 498 |
| 190 | 36.9 | 2.8 | 4.8 | 3300 | S401_4.8 S2 M2SB6 | 499 | S401_4.8 P90 BN90S6 | 500 |
| 196 | 35.9 | 2.2 | 7.2 | 3280 | S401_7.2 S2 M2SA4 | 499 | S401_7.2 P80 BN80B4 | 500 |
| 197 | 35.6 | 1.4 | 7.1 | 1860 | S301_7.1 S2 M2SA4 | 497 | S301_7.1 P80 BN80B4 | 498 |
| 217 | 32.3 | 2.5 | 12.9 | 4420 | S501_12.9 S1 M1LA2 | 501 | S501_12.9 P80 BN80A2 | 502 |
| 226 | 31.1 | 1.3 | 12.4 | 3150 | S401_12.4 S1 M1LA2 | 499 | S401_12.4 P80 BN80A2 | 500 |
| 231 | 30.4 | 3.0 | 6.1 | 3120 | S401_6.1 S2 M2SA4 | 499 | S401_6.1 P80 BN80B4 | 500 |
| 233 | 30.1 | 1.9 | 3.9 | 1780 | S301_3.9 S2 M2SB6 | 497 | S301_3.9 P90 BN90S6 | 498 |
| 234 | 30.0 | 1.0 | 3.9 | 1220 | S201_3.9 S2 M2SB6 | 495 | S201_3.9 P90 BN90S6 | 496 |
| 239 | 29.3 | 1.7 | 5.8 | 1780 | S301_5.8 S2 M2SA4 | 497 | S301_5.8 P80 BN80B4 | 498 |
| 263 | 26.7 | 1.5 | 10.7 | 3000 | S401_10.7 S1 M1LA2 | 499 | S401_10.7 P80 BN80A2 | 500 |
| 268 | 26.2 | 3.2 | 10.5 | 4140 | S501_10.5 S1 M1LA2 | 501 | S501_10.5 P80 BN80A2 | 502 |
| 272 | 25.8 | 0.9 | 10.3 | 1730 | S301_10.3 S1 M1LA2 | 497 | S301_10.3 P80 BN80A2 | 498 |
| 284 | 24.7 | 2.0 | 4.9 | 1700 | S301_4.9 S2 M2SA4 | 497 | S301_4.9 P80 BN80B4 | 498 |
| 294 | 23.9 | 1.1 | 4.8 | 1180 | S201_4.8 S2 M2SA4 | 495 | S201_4.8 P80 BN80B4 | 496 |
| 296 | 23.7 | 1.3 | 3.1 | 1160 | S201_3.1 S2 M2SB6 | 495 | S201_3.1 P90 BN90S6 | 496 |
| 300 | 23.4 | 2.5 | 3.1 | 1670 | S301_3.1 S2 M2SB6 | 497 | S301_3.1 P90 BN90S6 | 498 |
| 315 | 22.3 | 1.1 | 8.9 | 1660 | S301_8.9 S1 M1LA2 | 497 | S301_8.9 P80 BN80A2 | 498 |

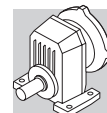


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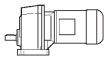



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 324 | 21.7 | 2.2 | 8.6 | 2820 | S401_8.6 S1 M1LA2 | 499 | S401_8.6 P80 BN80A2 | 500 |
| 355 | 19.8 | 2.5 | 3.9 | 1600 | S301_3.9 S2 M2SA4 | 497 | S301_3.9 P80 BN80B4 | 498 |
| 356 | 19.7 | 1.3 | 3.9 | 1130 | S201_3.9 S2 M2SA4 | 495 | S201_3.9 P80 BN80B4 | 496 |
| 377 | 18.6 | 1.6 | 2.4 | 1110 | S201_2.4 S2 M2SB6 | 495 | S201_2.4 P90 BN90S6 | 496 |
| 380 | 18.5 | 3.1 | 2.4 | 1560 | S301_2.4 S2 M2SB6 | 497 | S301_2.4 P90 BN90S6 | 498 |
| 388 | 18.1 | 1.2 | 7.2 | 1120 | S201_7.2 S1 M1LA2 | 495 | S201_7.2 P80 BN80A2 | 496 |
| 395 | 17.8 | 2.3 | 7.1 | 1560 | S301_7.1 S1 M1LA2 | 497 | S301_7.1 P80 BN80A2 | 498 |
| 450 | 15.6 | 1.7 | 3.1 | 1070 | S201_3.1 S2 M2SA4 | 495 | S201_3.1 P80 BN80B4 | 496 |
| 457 | 15.4 | 3.3 | 3.1 | 1490 | S301_3.1 S2 M2SA4 | 497 | S301_3.1 P80 BN80B4 | 498 |
| 479 | 14.7 | 2.7 | 5.8 | 1480 | S301_5.8 S1 M1LA2 | 497 | S301_5.8 P80 BN80A2 | 498 |
| 481 | 14.6 | 1.4 | 5.8 | 1060 | S201_5.8 S1 M1LA2 | 495 | S201_5.8 P80 BN80A2 | 496 |
| 486 | 14.5 | 1.4 | 1.9 | 1040 | S201_1.9 S2 M2SB6 | 495 | S201_1.9 P90 BN90S6 | 496 |
| 504 | 13.9 | 2.5 | 1.8 | 1440 | S301_1.8 S2 M2SB6 | 497 | S301_1.8 P90 BN90S6 | 498 |
| 568 | 12.4 | 3.2 | 4.9 | 1410 | S301_4.9 S1 M1LA2 | 497 | S301_4.9 P80 BN80A2 | 498 |
| 574 | 12.2 | 2.1 | 2.4 | 1010 | S201_2.4 S2 M2SA4 | 495 | S201_2.4 P80 BN80B4 | 496 |
| 587 | 12.0 | 1.8 | 4.8 | 1010 | S201_4.8 S1 M1LA2 | 495 | S201_4.8 P80 BN80A2 | 496 |
| 647 | 10.8 | 1.1 | 1.4 | 460 | S101_1.4 S2 M2SB6 | 493 | S101_1.4 P90 BN90S6 | 494 |
| 654 | 10.7 | 3.3 | 1.4 | 1330 | S301_1.4 S2 M2SB6 | 497 | S301_1.4 P90 BN90S6 | 498 |
| 661 | 10.6 | 1.9 | 1.4 | 960 | S201_1.4 S2 M2SB6 | 495 | S201_1.4 P90 BN90S6 | 496 |
| 712 | 9.9 | 2.1 | 3.9 | 960 | S201_3.9 S1 M1LA2 | 495 | S201_3.9 P80 BN80A2 | 496 |
| 728 | 9.6 | 1.0 | 3.8 | 480 | S101_3.8 S1 M1LA2 | 493 | S101_3.8 P80 BN80A2 | 494 |
| 739 | 9.5 | 1.8 | 1.9 | 940 | S201_1.9 S2 M2SA4 | 495 | S201_1.9 P80 BN80B4 | 496 |
| 747 | 9.4 | 1.1 | 1.9 | 460 | S101_1.9 S2 M2SA4 | 493 | S101_1.9 P80 BN80B4 | 494 |
| 767 | 9.2 | 3.3 | 1.8 | 1280 | S301_1.8 S2 M2SA4 | 497 | S301_1.8 P80 BN80B4 | 498 |
| 875 | 8.0 | 1.2 | 3.2 | 460 | S101_3.2 S1 M1LA2 | 493 | S101_3.2 P80 BN80A2 | 494 |
| 900 | 7.8 | 2.7 | 3.1 | 900 | S201_3.1 S1 M1LA2 | 495 | S201_3.1 P80 BN80A2 | 496 |
| 985 | 7.1 | 1.4 | 1.4 | 440 | S101_1.4 S2 M2SA4 | 493 | S101_1.4 P80 BN80B4 | 494 |
| 1006 | 7.0 | 2.4 | 1.4 | 860 | S201_1.4 S2 M2SA4 | 495 | S201_1.4 P80 BN80B4 | 496 |
| 1120 | 6.3 | 1.3 | 2.5 | 440 | S101_2.5 S1 M1LA2 | 493 | S101_2.5 P80 BN80A2 | 494 |
| 1149 | 6.1 | 3.4 | 2.4 | 840 | S201_2.4 S1 M1LA2 | 495 | S201_2.4 P80 BN80A2 | 496 |
| 1478 | 4.7 | 2.7 | 1.9 | 780 | S201_1.9 S1 M1LA2 | 495 | S201_1.9 P80 BN80A2 | 496 |
| 1493 | 4.7 | 1.7 | 1.9 | 410 | S101_1.9 S1 M1LA2 | 493 | S101_1.9 P80 BN80A2 | 494 |
| 1970 | 3.6 | 2.2 | 1.4 | 380 | S101_1.4 S1 M1LA2 | 493 | S101_1.4 P80 BN80A2 | 494 |

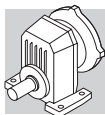
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| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 88 | 117.0 | 1.0 | 10.5 | 5650 | S501_10.5 S3 M3SA6 | 501 | S501_10.5 P90 BN90L6 | 502 |
| 105 | 98.1 | 1.3 | 8.8 | 5380 | S501_8.8 S3 M3SA6 | 501 | S501_8.8 P90 BN90L6 | 502 |
| 109 | 94.8 | 1.1 | 12.9 | 5320 | S501_12.9 S2 M2SB4 | 501 | S501_12.9 P90 BN90S4 | 502 |
| 124 | 82.8 | 1.7 | 7.4 | 5120 | S501_7.4 S3 M3SA6 | 501 | S501_7.4 P90 BN90L6 | 502 |
| 129 | 80.1 | 1.1 | 7.2 | 3550 | S401_7.2 S3 M3SA6 | 499 | S401_7.2 P90 BN90L6 | 500 |
| 134 | 76.9 | 1.4 | 10.5 | 5020 | S501_10.5 S2 M2SB4 | 501 | S501_10.5 P90 BN90S4 | 502 |
| 152 | 67.9 | 1.5 | 6.1 | 3400 | S401_6.1 S3 M3SA6 | 499 | S401_6.1 P90 BN90L6 | 500 |
| 152 | 67.8 | 2.2 | 6.1 | 4840 | S501_6.1 S3 M3SA6 | 501 | S501_6.1 P90 BN90L6 | 502 |
| 160 | 64.5 | 1.7 | 8.8 | 4770 | S501_8.8 S2 M2SB4 | 501 | S501_8.8 P90 BN90S4 | 502 |
| 162 | 63.5 | 0.9 | 8.6 | 3350 | S401_8.6 S2 M2SB4 | 499 | S401_8.6 P90 BN90S4 | 500 |
| 186 | 55.2 | 1.1 | 4.9 | 1740 | S301_4.9 S3 M3SA6 | 497 | S301_4.9 P90 BN90L6 | 498 |



1.1 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|------|----------------------|---|--|---|---|
| 189 | 54.4 | 2.4 | 7.4 | 4530 | S501_7.4 S2 M2SB4 | 501 | S501_7.4 P90 BN90S4 | 502 |
| 190 | 54.1 | 1.9 | 4.8 | 3200 | S401_4.8 S3 M3SA6 | 499 | S401_4.8 P90 BN90L6 | 500 |
| 194 | 53.2 | 3.3 | 4.8 | 4500 | S501_4.8 S3 M3SA6 | 501 | S501_4.8 P90 BN90L6 | 502 |
| 196 | 52.6 | 1.5 | 7.2 | 3180 | S401_7.2 S2 M2SB4 | 499 | S401_7.2 P90 BN90S4 | 500 |
| 197 | 52.1 | 1.0 | 7.1 | 1730 | S301_7.1 S2 M2SB4 | 497 | S301_7.1 P90 BN90S4 | 498 |
| 217 | 47.4 | 1.7 | 12.9 | 4350 | S501_12.9 S2 M2SA2 | 501 | S501_12.9 P80 BN80B2 | 502 |
| 231 | 44.6 | 2.0 | 6.1 | 3040 | S401_6.1 S2 M2SB4 | 499 | S401_6.1 P90 BN90S4 | 500 |
| 231 | 44.5 | 2.9 | 6.1 | 4270 | S501_6.1 S2 M2SB4 | 501 | S501_6.1 P90 BN90S4 | 502 |
| 233 | 44.1 | 1.3 | 3.9 | 1670 | S301_3.9 S3 M3SA6 | 497 | S301_3.9 P90 BN90L6 | 498 |
| 239 | 43.0 | 1.2 | 5.8 | 1670 | S301_5.8 S2 M2SB4 | 497 | S301_5.8 P90 BN90S4 | 498 |
| 241 | 42.7 | 2.5 | 3.8 | 2990 | S401_3.8 S3 M3SA6 | 499 | S401_3.8 P90 BN90L6 | 500 |
| 263 | 39.2 | 1.0 | 10.7 | 2930 | S401_10.7 S2 M2SA2 | 499 | S401_10.7 P80 BN80B2 | 500 |
| 268 | 38.4 | 2.2 | 10.5 | 4090 | S501_10.5 S2 M2SA2 | 501 | S501_10.5 P80 BN80B2 | 502 |
| 284 | 36.3 | 1.4 | 4.9 | 1610 | S301_4.9 S2 M2SB4 | 497 | S301_4.9 P90 BN90S4 | 498 |
| 290 | 35.5 | 2.5 | 4.8 | 2850 | S401_4.8 S2 M2SB4 | 499 | S401_4.8 P90 BN90S4 | 500 |
| 300 | 34.3 | 1.7 | 3.1 | 1580 | S301_3.1 S3 M3SA6 | 497 | S301_3.1 P90 BN90L6 | 498 |
| 301 | 34.2 | 3.1 | 3.1 | 2810 | S401_3.1 S3 M3SA6 | 499 | S401_3.1 P90 BN90L6 | 500 |
| 319 | 32.2 | 2.6 | 8.8 | 3870 | S501_8.8 S2 M2SA2 | 501 | S501_8.8 P80 BN80B2 | 502 |
| 324 | 31.8 | 1.5 | 8.6 | 2760 | S401_8.6 S2 M2SA2 | 499 | S401_8.6 P80 BN80B2 | 500 |
| 355 | 29.0 | 1.7 | 3.9 | 1530 | S301_3.9 S2 M2SB4 | 497 | S301_3.9 P90 BN90S4 | 498 |
| 367 | 28.0 | 3.2 | 3.8 | 2650 | S401_3.8 S2 M2SB4 | 499 | S401_3.8 P90 BN90S4 | 500 |
| 377 | 27.3 | 1.1 | 2.4 | 1010 | S201_2.4 S3 M3SA6 | 495 | S201_2.4 P90 BN90L6 | 496 |
| 380 | 27.1 | 2.1 | 2.4 | 1490 | S301_2.4 S3 M3SA6 | 497 | S301_2.4 P90 BN90L6 | 498 |
| 391 | 26.3 | 2.4 | 7.2 | 2610 | S401_7.2 S2 M2SA2 | 499 | S401_7.2 P80 BN80B2 | 500 |
| 395 | 26.1 | 1.5 | 7.1 | 1500 | S301_7.1 S2 M2SA2 | 497 | S301_7.1 P80 BN80B2 | 498 |
| 450 | 22.9 | 1.1 | 3.1 | 990 | S201_3.1 S2 M2SB4 | 495 | S201_3.1 P90 BN90S4 | 496 |
| 457 | 22.5 | 2.2 | 3.1 | 1430 | S301_3.1 S2 M2SB4 | 497 | S301_3.1 P90 BN90S4 | 498 |
| 462 | 22.3 | 3.1 | 6.1 | 2490 | S401_6.1 S2 M2SA2 | 499 | S401_6.1 P80 BN80B2 | 500 |
| 479 | 21.5 | 1.9 | 5.8 | 1420 | S301_5.8 S2 M2SA2 | 497 | S301_5.8 P80 BN80B2 | 498 |
| 481 | 21.4 | 1.0 | 5.8 | 990 | S201_5.8 S2 M2SA2 | 495 | S201_5.8 P80 BN80B2 | 496 |
| 486 | 21.2 | 0.9 | 1.9 | 960 | S201_1.9 S3 M3SA6 | 495 | S201_1.9 P90 BN90L6 | 496 |
| 497 | 20.7 | 3.4 | 1.9 | 2420 | S401_1.9 S3 M3SA6 | 499 | S401_1.9 P90 BN90L6 | 500 |
| 504 | 20.4 | 1.7 | 1.8 | 1380 | S301_1.8 S3 M3SA6 | 497 | S301_1.8 P90 BN90L6 | 498 |
| 568 | 18.1 | 2.2 | 4.9 | 1360 | S301_4.9 S2 M2SA2 | 497 | S301_4.9 P80 BN80B2 | 498 |
| 574 | 17.9 | 1.5 | 2.4 | 940 | S201_2.4 S2 M2SB4 | 495 | S201_2.4 P90 BN90S4 | 496 |
| 578 | 17.8 | 2.8 | 2.4 | 1340 | S301_2.4 S2 M2SB4 | 497 | S301_2.4 P90 BN90S4 | 498 |
| 587 | 17.5 | 1.2 | 4.8 | 950 | S201_4.8 S2 M2SA2 | 495 | S201_4.8 P80 BN80B2 | 496 |
| 654 | 15.7 | 2.2 | 1.4 | 1290 | S301_1.4 S3 M3SA6 | 497 | S301_1.4 P90 BN90L6 | 498 |
| 661 | 15.6 | 1.3 | 1.4 | 900 | S201_1.4 S3 M3SA6 | 495 | S201_1.4 P90 BN90L6 | 496 |
| 710 | 14.5 | 2.8 | 3.9 | 1280 | S301_3.9 S2 M2SA2 | 497 | S301_3.9 P80 BN80B2 | 498 |
| 712 | 14.5 | 1.5 | 3.9 | 910 | S201_3.9 S2 M2SA2 | 495 | S201_3.9 P80 BN80B2 | 496 |
| 739 | 13.9 | 1.2 | 1.9 | 890 | S201_1.9 S2 M2SB4 | 495 | S201_1.9 P90 BN90S4 | 496 |
| 767 | 13.4 | 2.2 | 1.8 | 1240 | S301_1.8 S2 M2SB4 | 497 | S301_1.8 P90 BN90S4 | 498 |
| 900 | 11.4 | 1.8 | 3.1 | 860 | S201_3.1 S2 M2SA2 | 495 | S201_3.1 P80 BN80B2 | 496 |
| 985 | 10.4 | 1.0 | 1.4 | 390 | S101_1.4 S2 M2SB4 | 493 | S101_1.4 P90 BN90S4 | 494 |
| 995 | 10.3 | 2.9 | 1.4 | 1150 | S301_1.4 S2 M2SB4 | 497 | S301_1.4 P90 BN90S4 | 498 |
| 1006 | 10.2 | 1.7 | 1.4 | 820 | S201_1.4 S2 M2SB4 | 495 | S201_1.4 P90 BN90S4 | 496 |
| 1149 | 9.0 | 2.3 | 2.4 | 810 | S201_2.4 S2 M2SA2 | 495 | S201_2.4 P80 BN80B2 | 496 |
| 1478 | 7.0 | 1.9 | 1.9 | 750 | S201_1.9 S2 M2SA2 | 495 | S201_1.9 P80 BN80B2 | 496 |
| 1493 | 6.9 | 1.2 | 1.9 | 380 | S101_1.9 S2 M2SA2 | 493 | S101_1.9 P80 BN80B2 | 494 |
| 1970 | 5.2 | 1.5 | 1.4 | 350 | S101_1.4 S2 M2SA2 | 493 | S101_1.4 P80 BN80B2 | 494 |

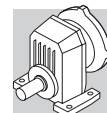


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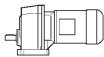



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N | | | | |
|-------------------------------------|----------------------|-----|-----|----------------------|--------------------------|-----|----------------------------|-----|
| 2013 | 5.1 | 2.5 | 1.4 | 690 | S201_1.4 S2 M2SA2 | 495 | S201_1.4 P80 BN80B2 | 496 |

1.5 kW

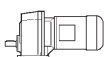



| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N | | | | |
|-------------------------------------|----------------------|-----|------|----------------------|---------------------------|-----|-----------------------------|-----|
| 88 | 117.0 | 1.0 | 10.5 | 5650 | S501_10.5 S3 M3SA6 | 501 | S501_10.5 P90 BN90L6 | 502 |
| 105 | 98.1 | 1.3 | 8.8 | 5380 | S501_8.8 S3 M3SA6 | 501 | S501_8.8 P90 BN90L6 | 502 |
| 109 | 94.8 | 1.1 | 12.9 | 5320 | S501_12.9 S2 M2SB4 | 501 | S501_12.9 P90 BN90S4 | 502 |
| 124 | 82.8 | 1.7 | 7.4 | 5120 | S501_7.4 S3 M3SA6 | 501 | S501_7.4 P90 BN90L6 | 502 |
| 129 | 80.1 | 1.1 | 7.2 | 3550 | S401_7.2 S3 M3SA6 | 499 | S401_7.2 P90 BN90L6 | 500 |
| 134 | 76.9 | 1.4 | 10.5 | 5020 | S501_10.5 S2 M2SB4 | 501 | S501_10.5 P90 BN90S4 | 502 |
| 152 | 67.9 | 1.5 | 6.1 | 3400 | S401_6.1 S3 M3SA6 | 499 | S401_6.1 P90 BN90L6 | 500 |
| 152 | 67.8 | 2.2 | 6.1 | 4840 | S501_6.1 S3 M3SA6 | 501 | S501_6.1 P90 BN90L6 | 502 |
| 160 | 64.5 | 1.7 | 8.8 | 4770 | S501_8.8 S2 M2SB4 | 501 | S501_8.8 P90 BN90S4 | 502 |
| 162 | 63.5 | 0.9 | 8.6 | 3350 | S401_8.6 S2 M2SB4 | 499 | S401_8.6 P90 BN90S4 | 500 |
| 186 | 55.2 | 1.1 | 4.9 | 1740 | S301_4.9 S3 M3SA6 | 497 | S301_4.9 P90 BN90L6 | 498 |
| 189 | 54.4 | 2.4 | 7.4 | 4530 | S501_7.4 S2 M2SB4 | 501 | S501_7.4 P90 BN90S4 | 502 |
| 190 | 54.1 | 1.9 | 4.8 | 3200 | S401_4.8 S3 M3SA6 | 499 | S401_4.8 P90 BN90L6 | 500 |
| 194 | 53.2 | 3.3 | 4.8 | 4500 | S501_4.8 S3 M3SA6 | 501 | S501_4.8 P90 BN90L6 | 502 |
| 196 | 52.6 | 1.5 | 7.2 | 3180 | S401_7.2 S2 M2SB4 | 499 | S401_7.2 P90 BN90S4 | 500 |
| 197 | 52.1 | 1.0 | 7.1 | 1730 | S301_7.1 S2 M2SB4 | 497 | S301_7.1 P90 BN90S4 | 498 |
| 217 | 47.4 | 1.7 | 12.9 | 4350 | S501_12.9 S2 M2SA2 | 501 | S501_12.9 P80 BN80B2 | 502 |
| 231 | 44.6 | 2.0 | 6.1 | 3040 | S401_6.1 S2 M2SB4 | 499 | S401_6.1 P90 BN90S4 | 500 |
| 231 | 44.5 | 2.9 | 6.1 | 4270 | S501_6.1 S2 M2SB4 | 501 | S501_6.1 P90 BN90S4 | 502 |
| 233 | 44.1 | 1.3 | 3.9 | 1670 | S301_3.9 S3 M3SA6 | 497 | S301_3.9 P90 BN90L6 | 498 |
| 239 | 43.0 | 1.2 | 5.8 | 1670 | S301_5.8 S2 M2SB4 | 497 | S301_5.8 P90 BN90S4 | 498 |
| 241 | 42.7 | 2.5 | 3.8 | 2990 | S401_3.8 S3 M3SA6 | 499 | S401_3.8 P90 BN90L6 | 500 |
| 263 | 39.2 | 1.0 | 10.7 | 2930 | S401_10.7 S2 M2SA2 | 499 | S401_10.7 P80 BN80B2 | 500 |
| 268 | 38.4 | 2.2 | 10.5 | 4090 | S501_10.5 S2 M2SA2 | 501 | S501_10.5 P80 BN80B2 | 502 |
| 284 | 36.3 | 1.4 | 4.9 | 1610 | S301_4.9 S2 M2SB4 | 497 | S301_4.9 P90 BN90S4 | 498 |
| 290 | 35.5 | 2.5 | 4.8 | 2850 | S401_4.8 S2 M2SB4 | 499 | S401_4.8 P90 BN90S4 | 500 |
| 300 | 34.3 | 1.7 | 3.1 | 1580 | S301_3.1 S3 M3SA6 | 497 | S301_3.1 P90 BN90L6 | 498 |
| 301 | 34.2 | 3.1 | 3.1 | 2810 | S401_3.1 S3 M3SA6 | 499 | S401_3.1 P90 BN90L6 | 500 |
| 319 | 32.2 | 2.6 | 8.8 | 3870 | S501_8.8 S2 M2SA2 | 501 | S501_8.8 P80 BN80B2 | 502 |
| 324 | 31.8 | 1.5 | 8.6 | 2760 | S401_8.6 S2 M2SA2 | 499 | S401_8.6 P80 BN80B2 | 500 |
| 355 | 29.0 | 1.7 | 3.9 | 1530 | S301_3.9 S2 M2SB4 | 497 | S301_3.9 P90 BN90S4 | 498 |
| 367 | 28.0 | 3.2 | 3.8 | 2650 | S401_3.8 S2 M2SB4 | 499 | S401_3.8 P90 BN90S4 | 500 |
| 377 | 27.3 | 1.1 | 2.4 | 1010 | S201_2.4 S3 M3SA6 | 495 | S201_2.4 P90 BN90L6 | 496 |
| 380 | 27.1 | 2.1 | 2.4 | 1490 | S301_2.4 S3 M3SA6 | 497 | S301_2.4 P90 BN90L6 | 498 |
| 391 | 26.3 | 2.4 | 7.2 | 2610 | S401_7.2 S2 M2SA2 | 499 | S401_7.2 P80 BN80B2 | 500 |
| 395 | 26.1 | 1.5 | 7.1 | 1500 | S301_7.1 S2 M2SA2 | 497 | S301_7.1 P80 BN80B2 | 498 |
| 450 | 22.9 | 1.1 | 3.1 | 990 | S201_3.1 S2 M2SB4 | 495 | S201_3.1 P90 BN90S4 | 496 |
| 457 | 22.5 | 2.2 | 3.1 | 1430 | S301_3.1 S2 M2SB4 | 497 | S301_3.1 P90 BN90S4 | 498 |
| 462 | 22.3 | 3.1 | 6.1 | 2490 | S401_6.1 S2 M2SA2 | 499 | S401_6.1 P80 BN80B2 | 500 |
| 479 | 21.5 | 1.9 | 5.8 | 1420 | S301_5.8 S2 M2SA2 | 497 | S301_5.8 P80 BN80B2 | 498 |
| 481 | 21.4 | 1.0 | 5.8 | 990 | S201_5.8 S2 M2SA2 | 495 | S201_5.8 P80 BN80B2 | 496 |
| 486 | 21.2 | 0.9 | 1.9 | 960 | S201_1.9 S3 M3SA6 | 495 | S201_1.9 P90 BN90L6 | 496 |
| 497 | 20.7 | 3.4 | 1.9 | 2420 | S401_1.9 S3 M3SA6 | 499 | S401_1.9 P90 BN90L6 | 500 |

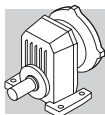


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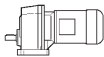



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 504 | 20.4 | 1.7 | 1.8 | 1380 | S301_1.8 S3 M3SA6 | 497 | S301_1.8 P90 BN90L6 | 498 |
| 568 | 18.1 | 2.2 | 4.9 | 1360 | S301_4.9 S2 M2SA2 | 497 | S301_4.9 P80 BN80B2 | 498 |
| 574 | 17.9 | 1.5 | 2.4 | 940 | S201_2.4 S2 M2SB4 | 495 | S201_2.4 P90 BN90S4 | 496 |
| 578 | 17.8 | 2.8 | 2.4 | 1340 | S301_2.4 S2 M2SB4 | 497 | S301_2.4 P90 BN90S4 | 498 |
| 587 | 17.5 | 1.2 | 4.8 | 950 | S201_4.8 S2 M2SA2 | 495 | S201_4.8 P80 BN80B2 | 496 |
| 654 | 15.7 | 2.2 | 1.4 | 1290 | S301_1.4 S3 M3SA6 | 497 | S301_1.4 P90 BN90L6 | 498 |
| 661 | 15.6 | 1.3 | 1.4 | 900 | S201_1.4 S3 M3SA6 | 495 | S201_1.4 P90 BN90L6 | 496 |
| 710 | 14.5 | 2.8 | 3.9 | 1280 | S301_3.9 S2 M2SA2 | 497 | S301_3.9 P80 BN80B2 | 498 |
| 712 | 14.5 | 1.5 | 3.9 | 910 | S201_3.9 S2 M2SA2 | 495 | S201_3.9 P80 BN80B2 | 496 |
| 739 | 13.9 | 1.2 | 1.9 | 890 | S201_1.9 S2 M2SB4 | 495 | S201_1.9 P90 BN90S4 | 496 |
| 767 | 13.4 | 2.2 | 1.8 | 1240 | S301_1.8 S2 M2SB4 | 497 | S301_1.8 P90 BN90S4 | 498 |
| 900 | 11.4 | 1.8 | 3.1 | 860 | S201_3.1 S2 M2SA2 | 495 | S201_3.1 P80 BN80B2 | 496 |
| 985 | 10.4 | 1.0 | 1.4 | 390 | S101_1.4 S2 M2SB4 | 493 | S101_1.4 P90 BN90S4 | 494 |
| 995 | 10.3 | 2.9 | 1.4 | 1150 | S301_1.4 S2 M2SB4 | 497 | S301_1.4 P90 BN90S4 | 498 |
| 1006 | 10.2 | 1.7 | 1.4 | 820 | S201_1.4 S2 M2SB4 | 495 | S201_1.4 P90 BN90S4 | 496 |
| 1149 | 9.0 | 2.3 | 2.4 | 810 | S201_2.4 S2 M2SA2 | 495 | S201_2.4 P80 BN80B2 | 496 |
| 1478 | 7.0 | 1.9 | 1.9 | 750 | S201_1.9 S2 M2SA2 | 495 | S201_1.9 P80 BN80B2 | 496 |
| 1493 | 6.9 | 1.2 | 1.9 | 380 | S101_1.9 S2 M2SA2 | 493 | S101_1.9 P80 BN80B2 | 494 |
| 1970 | 5.2 | 1.5 | 1.4 | 350 | S101_1.4 S2 M2SA2 | 493 | S101_1.4 P80 BN80B2 | 494 |
| 2013 | 5.1 | 2.5 | 1.4 | 690 | S201_1.4 S2 M2SA2 | 495 | S201_1.4 P80 BN80B2 | 496 |

2.2 kW



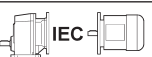

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 154 | 134.1 | 1.1 | 6.1 | 4520 | S501_6.1 S3 M3LC6 | 501 | S501_6.1 P112 BN112M6 | 502 |
| 191 | 108.1 | 1.2 | 7.4 | 4280 | S501_7.4 S3 M3LA4 | 501 | S501_7.4 P100 BN100LA4 | 502 |
| 192 | 107.0 | 1.0 | 4.8 | 2880 | S401_4.8 S3 M3LC6 | 499 | S401_4.8 P112 BN112M6 | 500 |
| 196 | 105.2 | 1.7 | 4.8 | 4230 | S501_4.8 S3 M3LC6 | 501 | S501_4.8 P112 BN112M6 | 502 |
| 232 | 88.6 | 1.0 | 6.1 | 2790 | S401_6.1 S3 M3LA4 | 499 | S401_6.1 P100 BN100LA4 | 500 |
| 233 | 88.4 | 1.5 | 6.1 | 4060 | S501_6.1 S3 M3LA4 | 501 | S501_6.1 P100 BN100LA4 | 502 |
| 242 | 85.1 | 2.1 | 3.8 | 4000 | S501_3.8 S3 M3LC6 | 501 | S501_3.8 P112 BN112M6 | 502 |
| 244 | 84.4 | 1.2 | 3.8 | 2730 | S401_3.8 S3 M3LC6 | 499 | S401_3.8 P112 BN112M6 | 500 |
| 269 | 76.6 | 1.1 | 10.5 | 3910 | S501_10.5 S3 M3SA2 | 501 | S501_10.5 P90 BN90L2 | 502 |
| 292 | 70.6 | 1.3 | 4.8 | 2640 | S401_4.8 S3 M3LA4 | 499 | S401_4.8 P100 BN100LA4 | 500 |
| 297 | 69.4 | 2.2 | 4.8 | 3790 | S501_4.8 S3 M3LA4 | 501 | S501_4.8 P100 BN100LA4 | 502 |
| 305 | 67.6 | 1.6 | 3.1 | 2590 | S401_3.1 S3 M3LC6 | 499 | S401_3.1 P112 BN112M6 | 500 |
| 306 | 67.4 | 2.4 | 3.0 | 3750 | S501_3.0 S3 M3LC6 | 501 | S501_3.0 P112 BN112M6 | 502 |
| 320 | 64.3 | 1.3 | 8.8 | 3730 | S501_8.8 S3 M3SA2 | 501 | S501_8.8 P90 BN90L2 | 502 |
| 367 | 56.1 | 2.7 | 3.8 | 3570 | S501_3.8 S3 M3LA4 | 501 | S501_3.8 P100 BN100LA4 | 502 |
| 370 | 55.7 | 1.6 | 3.8 | 2490 | S401_3.8 S3 M3LA4 | 499 | S401_3.8 P100 BN100LA4 | 500 |
| 380 | 54.2 | 1.8 | 7.4 | 3540 | S501_7.4 S3 M3SA2 | 501 | S501_7.4 P90 BN90L2 | 502 |
| 384 | 53.6 | 1.1 | 2.4 | 1260 | S301_2.4 S3 M3LC6 | 497 | S301_2.4 P112 BN112M6 | 498 |
| 386 | 53.3 | 2.8 | 2.4 | 3500 | S501_2.4 S3 M3LC6 | 501 | S501_2.4 P112 BN112M6 | 502 |
| 389 | 52.9 | 2.0 | 2.4 | 2450 | S401_2.4 S3 M3LC6 | 499 | S401_2.4 P112 BN112M6 | 500 |
| 393 | 52.4 | 1.2 | 7.2 | 2460 | S401_7.2 S3 M3SA2 | 499 | S401_7.2 P90 BN90L2 | 500 |
| 460 | 44.7 | 1.1 | 3.1 | 1240 | S301_3.1 S3 M3LA4 | 497 | S301_3.1 P100 BN100LA4 | 498 |
| 462 | 44.6 | 2.0 | 3.1 | 2340 | S401_3.1 S3 M3LA4 | 499 | S401_3.1 P100 BN100LA4 | 500 |
| 463 | 44.5 | 1.6 | 6.1 | 2360 | S401_6.1 S3 M3SA2 | 499 | S401_6.1 P90 BN90L2 | 500 |

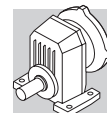


2.2 kW

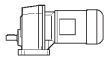



| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 463 | 44.4 | 3.2 | 3.0 | 3340 | S501_3.0 S3 M3LA4 | 501 | S501_3.0 P100 BN100LA4 | 502 |
| 464 | 44.4 | 2.3 | 6.1 | 3340 | S501_6.1 S3 M3SA2 | 501 | S501_6.1 P90 BN90L2 | 502 |
| 481 | 42.8 | 0.9 | 5.8 | 1250 | S301_5.8 S3 M3SA2 | 497 | S301_5.8 P90 BN90L2 | 498 |
| 502 | 41.0 | 1.7 | 1.9 | 2280 | S401_1.9 S3 M3LC6 | 499 | S401_1.9 P112 BN112M6 | 500 |
| 520 | 39.6 | 3.2 | 1.8 | 3210 | S501_1.8 S3 M3LC6 | 501 | S501_1.8 P112 BN112M6 | 502 |
| 570 | 36.1 | 1.1 | 4.9 | 1220 | S301_4.9 S3 M3SA2 | 497 | S301_4.9 P90 BN90L2 | 498 |
| 581 | 35.4 | 2.0 | 4.8 | 2210 | S401_4.8 S3 M3SA2 | 499 | S401_4.8 P90 BN90L2 | 500 |
| 582 | 35.4 | 1.4 | 2.4 | 1190 | S301_2.4 S3 M3LA4 | 497 | S301_2.4 P100 BN100LA4 | 498 |
| 590 | 34.9 | 2.6 | 2.4 | 2200 | S401_2.4 S3 M3LA4 | 499 | S401_2.4 P100 BN100LA4 | 500 |
| 592 | 34.8 | 3.4 | 4.8 | 3110 | S501_4.8 S3 M3SA2 | 501 | S501_4.8 P90 BN90L2 | 502 |
| 661 | 31.2 | 1.1 | 1.4 | 1140 | S301_1.4 S3 M3LC6 | 497 | S301_1.4 P112 BN112M6 | 498 |
| 682 | 30.2 | 2.3 | 1.4 | 2090 | S401_1.4 S3 M3LC6 | 499 | S401_1.4 P112 BN112M6 | 500 |
| 712 | 28.9 | 1.4 | 3.9 | 1160 | S301_3.9 S3 M3SA2 | 497 | S301_3.9 P90 BN90L2 | 498 |
| 737 | 27.9 | 2.5 | 3.8 | 2070 | S401_3.8 S3 M3SA2 | 499 | S401_3.8 P90 BN90L2 | 500 |
| 761 | 27.0 | 2.2 | 1.9 | 2040 | S401_1.9 S3 M3LA4 | 499 | S401_1.9 P100 BN100LA4 | 500 |
| 772 | 26.7 | 1.1 | 1.8 | 1120 | S301_1.8 S3 M3LA4 | 497 | S301_1.8 P100 BN100LA4 | 498 |
| 903 | 22.8 | 0.9 | 3.1 | 730 | S201_3.1 S3 M3SA2 | 495 | S201_3.1 P90 BN90L2 | 496 |
| 918 | 22.4 | 1.8 | 3.1 | 1100 | S301_3.1 S3 M3SA2 | 497 | S301_3.1 P90 BN90L2 | 498 |
| 921 | 22.4 | 3.1 | 3.1 | 1940 | S401_3.1 S3 M3SA2 | 499 | S401_3.1 P90 BN90L2 | 500 |
| 1002 | 20.6 | 1.5 | 1.4 | 1050 | S301_1.4 S3 M3LA4 | 497 | S301_1.4 P100 BN100LA4 | 498 |
| 1034 | 19.9 | 3.0 | 1.4 | 1860 | S401_1.4 S3 M3LA4 | 499 | S401_1.4 P100 BN100LA4 | 500 |
| 1153 | 17.9 | 1.2 | 2.4 | 710 | S201_2.4 S3 M3SA2 | 495 | S201_2.4 P90 BN90L2 | 496 |
| 1161 | 17.7 | 2.3 | 2.4 | 1030 | S301_2.4 S3 M3SA2 | 497 | S301_2.4 P90 BN90L2 | 498 |
| 1483 | 13.9 | 0.9 | 1.9 | 670 | S201_1.9 S3 M3SA2 | 495 | S201_1.9 P90 BN90L2 | 496 |
| 1539 | 13.4 | 1.8 | 1.8 | 960 | S301_1.8 S3 M3SA2 | 497 | S301_1.8 P90 BN90L2 | 498 |
| 1997 | 10.3 | 2.3 | 1.4 | 890 | S301_1.4 S3 M3SA2 | 497 | S301_1.4 P90 BN90L2 | 498 |
| 2020 | 10.2 | 1.3 | 1.4 | 630 | S201_1.4 S3 M3SA2 | 495 | S201_1.4 P90 BN90L2 | 496 |

3.0 kW





| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  |  |
|---|----------------------------|----------|----------|----------------------------|---|--|---|---|
| 198 | 141.9 | 1.2 | 4.8 | 4040 | S501_4.8 S4 M4SA6 | 501 | S501_4.8 P132 BN132S6 | 502 |
| 233 | 120.6 | 1.1 | 6.1 | 3910 | S501_6.1 S3 M3LB4 | 501 | S501_6.1 P100 BN100LB4 | 502 |
| 245 | 114.8 | 1.5 | 3.8 | 3840 | S501_3.8 S4 M4SA6 | 501 | S501_3.8 P132 BN132S6 | 502 |
| 247 | 113.9 | 0.9 | 3.8 | 2550 | S401_3.8 S4 M4SA6 | 499 | S401_3.8 P132 BN132S6 | 500 |
| 292 | 96.2 | 0.9 | 4.8 | 2490 | S401_4.8 S3 M3LB4 | 499 | S401_4.8 P100 BN100LB4 | 500 |
| 297 | 94.6 | 1.6 | 4.8 | 3670 | S501_4.8 S3 M3LB4 | 501 | S501_4.8 P100 BN100LB4 | 502 |
| 308 | 91.2 | 1.2 | 3.1 | 2440 | S401_3.1 S4 M4SA6 | 499 | S401_3.1 P132 BN132S6 | 500 |
| 309 | 90.9 | 1.8 | 3.0 | 3630 | S501_3.0 S4 M4SA6 | 501 | S501_3.0 P132 BN132S6 | 502 |
| 326 | 86.1 | 1.0 | 8.8 | 3600 | S501_8.8 S3 M3LA2 | 501 | S501_8.8 P100 BN100L2 | 502 |
| 367 | 76.5 | 2.0 | 3.8 | 3470 | S501_3.8 S3 M3LB4 | 501 | S501_3.8 P100 BN100LB4 | 502 |
| 370 | 75.9 | 1.2 | 3.8 | 2370 | S401_3.8 S3 M3LB4 | 499 | S401_3.8 P100 BN100LB4 | 500 |
| 386 | 72.6 | 1.4 | 7.4 | 3440 | S501_7.4 S3 M3LA2 | 501 | S501_7.4 P100 BN100L2 | 502 |
| 390 | 71.9 | 2.1 | 2.4 | 3390 | S501_2.4 S4 M4SA6 | 501 | S501_2.4 P132 BN132S6 | 502 |
| 393 | 71.4 | 1.5 | 2.4 | 2320 | S401_2.4 S4 M4SA6 | 499 | S401_2.4 P132 BN132S6 | 500 |
| 462 | 60.8 | 1.5 | 3.1 | 2250 | S401_3.1 S3 M3LB4 | 499 | S401_3.1 P100 BN100LB4 | 500 |
| 463 | 60.6 | 2.3 | 3.0 | 3260 | S501_3.0 S3 M3LB4 | 501 | S501_3.0 P100 BN100LB4 | 502 |
| 471 | 59.6 | 1.2 | 6.1 | 2260 | S401_6.1 S3 M3LA2 | 499 | S401_6.1 P100 BN100L2 | 500 |

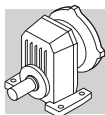


3.0 kW

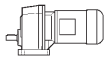


| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-----|----------------------|---|--|---|---|
| 472 | 59.4 | 1.7 | 6.1 | 3260 | S501_6.1 S3 M3LA2 | 501 | S501_6.1 P100 BN100L2 | 502 |
| 508 | 55.3 | 1.3 | 1.9 | 2170 | S401_1.9 S4 M4SA6 | 499 | S401_1.9 P132 BN132S6 | 500 |
| 526 | 53.4 | 2.3 | 1.8 | 3120 | S501_1.8 S4 M4SA6 | 501 | S501_1.8 P132 BN132S6 | 502 |
| 582 | 48.2 | 1.0 | 2.4 | 1080 | S301_2.4 S3 M3LB4 | 497 | S301_2.4 P100 BN100LB4 | 498 |
| 586 | 47.9 | 2.7 | 2.4 | 3040 | S501_2.4 S3 M3LB4 | 501 | S501_2.4 P100 BN100LB4 | 502 |
| 590 | 47.6 | 1.9 | 2.4 | 2120 | S401_2.4 S3 M3LB4 | 499 | S401_2.4 P100 BN100LB4 | 500 |
| 592 | 47.4 | 1.5 | 4.8 | 2130 | S401_4.8 S3 M3LA2 | 499 | S401_4.8 P100 BN100L2 | 500 |
| 602 | 46.6 | 2.6 | 4.8 | 3030 | S501_4.8 S3 M3LA2 | 501 | S501_4.8 P100 BN100L2 | 502 |
| 661 | 42.4 | 2.9 | 1.4 | 2920 | S501_1.4 S4 M4SA6 | 501 | S501_1.4 P132 BN132S6 | 502 |
| 689 | 40.7 | 1.7 | 1.4 | 2010 | S401_1.4 S4 M4SA6 | 499 | S401_1.4 P132 BN132S6 | 500 |
| 725 | 38.7 | 1.0 | 3.9 | 1070 | S301_3.9 S3 M3LA2 | 497 | S301_3.9 P100 BN100L2 | 498 |
| 744 | 37.7 | 3.2 | 3.8 | 2850 | S501_3.8 S3 M3LA2 | 501 | S501_3.8 P100 BN100L2 | 502 |
| 750 | 37.4 | 1.9 | 3.8 | 2000 | S401_3.8 S3 M3LA2 | 499 | S401_3.8 P100 BN100L2 | 500 |
| 761 | 36.9 | 1.6 | 1.9 | 1970 | S401_1.9 S3 M3LB4 | 499 | S401_1.9 P100 BN100LB4 | 500 |
| 789 | 35.6 | 3.1 | 1.8 | 2780 | S501_1.8 S3 M3LB4 | 501 | S501_1.8 P100 BN100LB4 | 502 |
| 934 | 30.1 | 1.3 | 3.1 | 1020 | S301_3.1 S3 M3LA2 | 497 | S301_3.1 P100 BN100L2 | 498 |
| 937 | 30.0 | 2.3 | 3.1 | 1880 | S401_3.1 S3 M3LA2 | 499 | S401_3.1 P100 BN100L2 | 500 |
| 1002 | 28.0 | 1.1 | 1.4 | 980 | S301_1.4 S3 M3LB4 | 497 | S301_1.4 P100 BN100LB4 | 498 |
| 1034 | 27.2 | 2.2 | 1.4 | 1820 | S401_1.4 S3 M3LB4 | 499 | S401_1.4 P100 BN100LB4 | 500 |
| 1181 | 23.8 | 1.7 | 2.4 | 980 | S301_2.4 S3 M3LA2 | 497 | S301_2.4 P100 BN100L2 | 498 |
| 1196 | 23.5 | 3.0 | 2.4 | 1760 | S401_2.4 S3 M3LA2 | 499 | S401_2.4 P100 BN100L2 | 500 |
| 1544 | 18.2 | 2.6 | 1.9 | 1630 | S401_1.9 S3 M3LA2 | 499 | S401_1.9 P100 BN100L2 | 500 |
| 1566 | 17.9 | 1.3 | 1.8 | 910 | S301_1.8 S3 M3LA2 | 497 | S301_1.8 P100 BN100L2 | 498 |
| 2032 | 13.8 | 1.7 | 1.4 | 850 | S301_1.4 S3 M3LA2 | 497 | S301_1.4 P100 BN100L2 | 498 |
| 2056 | 13.7 | 1.0 | 1.4 | 580 | S201_1.4 S3 M3LA2 | 495 | S201_1.4 P100 BN100L2 | 496 |

4.0 kW




| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  |  |  |  |
|-------------------------------------|----------------------|-----|-----|----------------------|---|--|---|---|
| 200 | 187.2 | 0.9 | 4.8 | 3810 | S501_4.8 S4 M4LA6 | 501 | S501_4.8 P132 BN132MA6 | 502 |
| 247 | 151.4 | 1.2 | 3.8 | 3650 | S501_3.8 S4 M4LA6 | 501 | S501_3.8 P132 BN132MA6 | 502 |
| 293 | 127.9 | 1.2 | 4.8 | 3530 | S501_4.8 S3 M3LC4 | 501 | S501_4.8 P112 BN112M4 | 502 |
| 312 | 119.9 | 1.3 | 3.0 | 3470 | S501_3.0 S4 M4LA6 | 501 | S501_3.0 P132 BN132MA6 | 502 |
| 362 | 103.5 | 1.4 | 3.8 | 3360 | S501_3.8 S3 M3LC4 | 501 | S501_3.8 P112 BN112M4 | 502 |
| 388 | 96.5 | 1.0 | 7.4 | 3320 | S501_7.4 S3 M3LB2 | 501 | S501_7.4 P112 BN112M2 | 502 |
| 395 | 94.9 | 1.6 | 2.4 | 3270 | S501_2.4 S4 M4LA6 | 501 | S501_2.4 P132 BN132MA6 | 502 |
| 397 | 94.2 | 1.1 | 2.4 | 2180 | S401_2.4 S4 M4LA6 | 499 | S401_2.4 P132 BN132MA6 | 500 |
| 455 | 82.2 | 1.1 | 3.1 | 2130 | S401_3.1 S3 M3LC4 | 499 | S401_3.1 P112 BN112M4 | 500 |
| 457 | 82.0 | 1.7 | 3.0 | 3170 | S501_3.0 S3 M3LC4 | 501 | S501_3.0 P112 BN112M4 | 502 |
| 474 | 79.0 | 1.3 | 6.1 | 3160 | S501_6.1 S3 M3LB2 | 501 | S501_6.1 P112 BN112M2 | 502 |
| 513 | 73.0 | 1.0 | 1.9 | 2050 | S401_1.9 S4 M4LA6 | 499 | S401_1.9 P132 BN132MA6 | 500 |
| 531 | 70.5 | 1.8 | 1.8 | 3020 | S501_1.8 S4 M4LA6 | 501 | S501_1.8 P132 BN132MA6 | 502 |
| 577 | 64.8 | 2.0 | 2.4 | 2970 | S501_2.4 S3 M3LC4 | 501 | S501_2.4 P112 BN112M4 | 502 |
| 581 | 64.4 | 1.4 | 2.4 | 2030 | S401_2.4 S3 M3LC4 | 499 | S401_2.4 P112 BN112M4 | 500 |
| 594 | 63.0 | 1.1 | 4.8 | 2040 | S401_4.8 S3 M3LB2 | 499 | S401_4.8 P112 BN112M2 | 500 |
| 604 | 62.0 | 1.9 | 4.8 | 2960 | S501_4.8 S3 M3LB2 | 501 | S501_4.8 P112 BN112M2 | 502 |
| 669 | 56.0 | 2.2 | 1.4 | 2830 | S501_1.4 S4 M4LA6 | 501 | S501_1.4 P132 BN132MA6 | 502 |
| 697 | 53.7 | 1.3 | 1.4 | 1920 | S401_1.4 S4 M4LA6 | 499 | S401_1.4 P132 BN132MA6 | 500 |

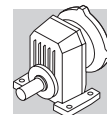


4.0 kW

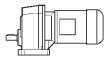


| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  | |
|---|----------------------------|----------|----------|----------------------------|---|---|---|-----|
| 747 | 50.1 | 2.4 | 3.8 | 2790 | S501_3.8 S3 M3LB2 | 501 | S501_3.8 P112 BN112M2 | 502 |
| 751 | 49.9 | 1.2 | 1.9 | 1900 | S401_1.9 S3 M3LC4 | 499 | S401_1.9 P112 BN112M4 | 500 |
| 753 | 49.7 | 1.4 | 3.8 | 1930 | S401_3.8 S3 M3LB2 | 499 | S401_3.8 P112 BN112M2 | 500 |
| 777 | 48.2 | 2.3 | 1.8 | 2730 | S501_1.8 S3 M3LC4 | 501 | S501_1.8 P112 BN112M4 | 502 |
| 937 | 39.9 | 1.0 | 3.1 | 940 | S301_3.1 S3 M3LB2 | 497 | S301_3.1 P112 BN112M2 | 498 |
| 940 | 39.8 | 1.8 | 3.1 | 1820 | S401_3.1 S3 M3LB2 | 499 | S401_3.1 P112 BN112M2 | 500 |
| 943 | 39.7 | 2.8 | 3.0 | 2610 | S501_3.0 S3 M3LB2 | 501 | S501_3.0 P112 BN112M2 | 502 |
| 978 | 38.3 | 2.9 | 1.4 | 2560 | S501_1.4 S3 M3LC4 | 501 | S501_1.4 P112 BN112M4 | 502 |
| 1019 | 36.7 | 1.6 | 1.4 | 1760 | S401_1.4 S3 M3LC4 | 499 | S401_1.4 P112 BN112M4 | 500 |
| 1185 | 31.6 | 1.3 | 2.4 | 910 | S301_2.4 S3 M3LB2 | 497 | S301_2.4 P112 BN112M2 | 498 |
| 1192 | 31.4 | 3.2 | 2.4 | 2430 | S501_2.4 S3 M3LB2 | 501 | S501_2.4 P112 BN112M2 | 502 |
| 1200 | 31.2 | 2.2 | 2.4 | 1710 | S401_2.4 S3 M3LB2 | 499 | S401_2.4 P112 BN112M2 | 500 |
| 1550 | 24.2 | 2.0 | 1.9 | 1590 | S401_1.9 S3 M3LB2 | 499 | S401_1.9 P112 BN112M2 | 500 |
| 1572 | 23.8 | 1.0 | 1.8 | 860 | S301_1.8 S3 M3LB2 | 497 | S301_1.8 P112 BN112M2 | 498 |
| 2039 | 18.4 | 1.3 | 1.4 | 810 | S301_1.4 S3 M3LB2 | 497 | S301_1.4 P112 BN112M2 | 498 |
| 2105 | 17.8 | 2.7 | 1.4 | 1460 | S401_1.4 S3 M3LB2 | 499 | S401_1.4 P112 BN112M2 | 500 |

5.5 kW




| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  | |
|---|----------------------------|----------|----------|----------------------------|---|---|---|-----|
| 311 | 165.8 | 1.0 | 3.0 | 3260 | S501_3.0 S4 M4LB6 | 501 | S501_3.0 P132 BN132MB6 | 502 |
| 375 | 137.3 | 1.1 | 3.8 | 3150 | S501_3.8 S4 M4SA4 | 501 | S501_3.8 P132 BN132S4 | 502 |
| 393 | 131.1 | 1.1 | 2.4 | 3090 | S501_2.4 S4 M4LB6 | 501 | S501_2.4 P132 BN132MB6 | 502 |
| 473 | 108.8 | 1.3 | 3.0 | 3000 | S501_3.0 S4 M4SA4 | 501 | S501_3.0 P132 BN132S4 | 502 |
| 477 | 107.9 | 0.9 | 6.1 | 3020 | S501_6.1 S4 M4SA2 | 501 | S501_6.1 P132 BN132SA2 | 502 |
| 529 | 97.4 | 1.3 | 1.8 | 2880 | S501_1.8 S4 M4LB6 | 501 | S501_1.8 P132 BN132MB6 | 502 |
| 598 | 86.1 | 1.5 | 2.4 | 2830 | S501_2.4 S4 M4SA4 | 501 | S501_2.4 P132 BN132S4 | 502 |
| 602 | 85.5 | 1.1 | 2.4 | 1870 | S401_2.4 S4 M4SA4 | 499 | S401_2.4 P132 BN132S4 | 500 |
| 608 | 84.6 | 1.4 | 4.8 | 2840 | S501_4.8 S4 M4SA2 | 501 | S501_4.8 P132 BN132SA2 | 502 |
| 665 | 77.4 | 1.6 | 1.4 | 2720 | S501_1.4 S4 M4LB6 | 501 | S501_1.4 P132 BN132MB6 | 502 |
| 693 | 74.3 | 0.9 | 1.4 | 1780 | S401_1.4 S4 M4LB6 | 499 | S401_1.4 P132 BN132MB6 | 500 |
| 752 | 68.4 | 1.8 | 3.8 | 2690 | S501_3.8 S4 M4SA2 | 501 | S501_3.8 P132 BN132SA2 | 502 |
| 758 | 67.9 | 1.0 | 3.8 | 1810 | S401_3.8 S4 M4SA2 | 499 | S401_3.8 P132 BN132SA2 | 500 |
| 778 | 66.2 | 0.9 | 1.9 | 1770 | S401_1.9 S4 M4SA4 | 499 | S401_1.9 P132 BN132S4 | 500 |
| 805 | 63.9 | 1.7 | 1.8 | 2610 | S501_1.8 S4 M4SA4 | 501 | S501_1.8 P132 BN132S4 | 502 |
| 947 | 54.4 | 1.3 | 3.1 | 1730 | S401_3.1 S4 M4SA2 | 499 | S401_3.1 P132 BN132SA2 | 500 |
| 950 | 54.2 | 2.0 | 3.0 | 2530 | S501_3.0 S4 M4SA2 | 501 | S501_3.0 P132 BN132SA2 | 502 |
| 1013 | 50.8 | 2.2 | 1.4 | 2450 | S501_1.4 S4 M4SA4 | 501 | S501_1.4 P132 BN132S4 | 502 |
| 1056 | 48.7 | 1.2 | 1.4 | 1660 | S401_1.4 S4 M4SA4 | 499 | S401_1.4 P132 BN132S4 | 500 |
| 1200 | 42.9 | 2.3 | 2.4 | 2370 | S501_2.4 S4 M4SA2 | 501 | S501_2.4 P132 BN132SA2 | 502 |
| 1209 | 42.6 | 1.6 | 2.4 | 1640 | S401_2.4 S4 M4SA2 | 499 | S401_2.4 P132 BN132SA2 | 500 |
| 1561 | 33.0 | 1.5 | 1.9 | 1530 | S401_1.9 S4 M4SA2 | 499 | S401_1.9 P132 BN132SA2 | 500 |
| 1616 | 31.8 | 2.7 | 1.8 | 2170 | S501_1.8 S4 M4SA2 | 501 | S501_1.8 P132 BN132SA2 | 502 |
| 2034 | 25.3 | 3.4 | 1.4 | 2030 | S501_1.4 S4 M4SA2 | 501 | S501_1.4 P132 BN132SA2 | 502 |
| 2119 | 24.3 | 2.0 | 1.4 | 1410 | S401_1.4 S4 M4SA2 | 499 | S401_1.4 P132 BN132SA2 | 500 |

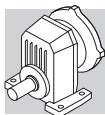


7.5 kW

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  | |
|---|----------------------------|----------|----------|----------------------------|---|---|---|-----|
| 473 | 148.4 | 0.9 | 3.0 | 2810 | S501_3.0 S4 M4LA4 | 501 | S501_3.0 P132 BN132MA4 | 502 |
| 534 | 131.4 | 1.0 | 1.8 | 2690 | | | S501_1.8 P160 BN160M6 | 502 |
| 598 | 117.3 | 1.1 | 2.4 | 2670 | S501_2.4 S4 M4LA4 | 501 | S501_2.4 P132 BN132MA4 | 502 |
| 611 | 115.0 | 1.0 | 4.8 | 2690 | S501_4.8 S4 M4SB2 | 501 | S501_4.8 P132 BN132SB2 | 502 |
| 672 | 104.4 | 1.2 | 1.4 | 2560 | | | S501_1.4 P160 BN160M6 | 502 |
| 755 | 93.0 | 1.3 | 3.8 | 2570 | S501_3.8 S4 M4SB2 | 501 | S501_3.8 P132 BN132SB2 | 502 |
| 805 | 87.1 | 1.3 | 1.8 | 2490 | S501_1.8 S4 M4LA4 | 501 | S501_1.8 P132 BN132MA4 | 502 |
| 950 | 73.9 | 0.9 | 3.1 | 1610 | S401_3.1 S4 M4SB2 | 499 | S401_3.1 P132 BN132SB2 | 500 |
| 953 | 73.7 | 1.5 | 3.0 | 2440 | S501_3.0 S4 M4SB2 | 501 | S501_3.0 P132 BN132SB2 | 502 |
| 1013 | 69.3 | 1.6 | 1.4 | 2350 | S501_1.4 S4 M4LA4 | 501 | S501_1.4 P132 BN132MA4 | 502 |
| 1056 | 66.5 | 0.9 | 1.4 | 1540 | S401_1.4 S4 M4LA4 | 499 | S401_1.4 P132 BN132MA4 | 500 |
| 1205 | 58.3 | 1.7 | 2.4 | 2290 | S501_2.4 S4 M4SB2 | 501 | S501_2.4 P132 BN132SB2 | 502 |
| 1213 | 57.9 | 1.2 | 2.4 | 1540 | S401_2.4 S4 M4SB2 | 499 | S401_2.4 P132 BN132SB2 | 500 |
| 1566 | 44.8 | 1.1 | 1.9 | 1450 | S401_1.9 S4 M4SB2 | 499 | S401_1.9 P132 BN132SB2 | 500 |
| 1622 | 43.3 | 2.0 | 1.8 | 2110 | S501_1.8 S4 M4SB2 | 501 | S501_1.8 P132 BN132SB2 | 502 |
| 2041 | 34.4 | 2.5 | 1.4 | 1980 | S501_1.4 S4 M4SB2 | 501 | S501_1.4 P132 BN132SB2 | 502 |
| 2127 | 33.0 | 1.5 | 1.4 | 1350 | S401_1.4 S4 M4SB2 | 499 | S401_1.4 P132 BN132SB2 | 500 |

9.2 kW

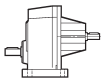

| n₂ min ⁻¹ | M₂ Nm | S | i | R_{n2} N |  |  |  | |
|---|----------------------------|----------|----------|----------------------------|---|---|---|-----|
| 598 | 143.9 | 0.9 | 2.4 | 2530 | S501_2.4 S4 M4LB4 | 501 | S501_2.4 P132 BN132MB4 | 502 |
| 755 | 114.1 | 1.1 | 3.8 | 2470 | S501_3.8 S4 M4LA2 | 501 | S501_3.8 P132 BN132M2 | 502 |
| 805 | 106.9 | 1.0 | 1.8 | 2390 | S501_1.8 S4 M4LB4 | 501 | S501_1.8 P132 BN132MB4 | 502 |
| 953 | 90.4 | 1.2 | 3.0 | 2360 | S501_3.0 S4 M4LA2 | 501 | S501_3.0 P132 BN132M2 | 502 |
| 1013 | 85.0 | 1.3 | 1.4 | 2270 | S501_1.4 S4 M4LB4 | 501 | S501_1.4 P132 BN132MB4 | 502 |
| 1205 | 71.5 | 1.4 | 2.4 | 2220 | S501_2.4 S4 M4LA2 | 501 | S501_2.4 P132 BN132M2 | 502 |
| 1213 | 71.0 | 1.0 | 2.4 | 1460 | S401_2.4 S4 M4LA2 | 499 | S401_2.4 P132 BN132M2 | 500 |
| 1622 | 53.1 | 1.6 | 1.8 | 2060 | S501_1.8 S4 M4LA2 | 501 | S501_1.8 P132 BN132M2 | 502 |
| 2041 | 42.2 | 2.0 | 1.4 | 1930 | S501_1.4 S4 M4LA2 | 501 | S501_1.4 P132 BN132M2 | 502 |
| 2127 | 40.5 | 1.2 | 1.4 | 1300 | S401_1.4 S4 M4LA2 | 499 | S401_1.4 P132 BN132M2 | 500 |

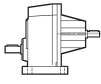



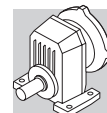
70 DONNEES TECHNIQUES REDUCTEURS

S 10

21 Nm

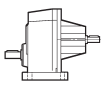

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| S 10 1_1.4 | 1.4 | 1972 | 8.0 | 1.7 | 800 | 310 | 986 | 10.0 | 1.1 | 800 | 390 | 494 |
| S 10 1_1.9 | 1.9 | 1489 | 8.0 | 1.3 | 800 | 360 | 745 | 10.0 | 0.80 | 800 | 460 | |
| S 10 1_2.5 | 2.5 | 1120 | 8.0 | 0.96 | 800 | 420 | 560 | 10.0 | 0.60 | 800 | 520 | |
| S 10 1_3.2 | 3.2 | 875 | 10.0 | 0.93 | 800 | 440 | 438 | 12.0 | 0.56 | 800 | 560 | |
| S 10 1_3.8 | 3.8 | 727 | 10.0 | 0.78 | 800 | 480 | 364 | 12.0 | 0.47 | 800 | 610 | |
| S 10 1_4.7 | 4.7 | 592 | 10.0 | 0.63 | 800 | 520 | 296 | 12.0 | 0.38 | 800 | 660 | |
| S 10 1_6.1 | 6.1 | 458 | 12.0 | 0.59 | 800 | 560 | 229 | 15.0 | 0.37 | 800 | 710 | |
| S 10 1_6.9 | 6.9 | 406 | 12.0 | 0.52 | 800 | 580 | 203 | 15.0 | 0.33 | 800 | 740 | |
| S 10 1_8.9 | 8.9 | 315 | 8.0 | 0.27 | 800 | 700 | 158 | 10.0 | 0.17 | 800 | 880 | |
| S 10 1_10.3 | 10.3 | 272 | 8.0 | 0.23 | 800 | 740 | 136 | 10.0 | 0.15 | 800 | 930 | |
| S 10 1_12.3 | 12.3 | 227 | 8.0 | 0.19 | 800 | 800 | 114 | 10.0 | 0.12 | 800 | 1000 | |

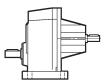

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|---|------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| S 10 1_1.4 | 1.4 | 634 | 12.0 | 0.81 | 800 | 450 | 352 | 14.0 | 0.53 | 800 | 560 | 494 |
| S 10 1_1.9 | 1.9 | 479 | 12.0 | 0.61 | 800 | 520 | 266 | 14.0 | 0.40 | 800 | 640 | |
| S 10 1_2.5 | 2.5 | 360 | 12.0 | 0.46 | 800 | 600 | 200 | 14.0 | 0.30 | 800 | 740 | |
| S 10 1_3.2 | 3.2 | 281 | 14.0 | 0.42 | 800 | 650 | 156 | 17.0 | 0.28 | 800 | 790 | |
| S 10 1_3.8 | 3.8 | 234 | 14.0 | 0.35 | 800 | 700 | 130 | 17.0 | 0.24 | 800 | 850 | |
| S 10 1_4.7 | 4.7 | 190 | 14.0 | 0.28 | 800 | 770 | 106 | 17.0 | 0.19 | 800 | 930 | |
| S 10 1_6.1 | 6.1 | 147 | 17.0 | 0.27 | 800 | 820 | 82 | 21 | 0.18 | 800 | 1000 | |
| S 10 1_6.9 | 6.9 | 130 | 17.0 | 0.24 | 800 | 860 | 72 | 21 | 0.16 | 800 | 1040 | |
| S 10 1_8.9 | 8.9 | 101 | 12.0 | 0.13 | 800 | 1020 | 56 | 14.0 | 0.08 | 800 | 1200 | |
| S 10 1_10.3 | 10.3 | 87 | 12.0 | 0.11 | 800 | 1080 | 49 | 14.0 | 0.07 | 800 | 1200 | |
| S 10 1_12.3 | 12.3 | 73 | 12.0 | 0.09 | 800 | 1160 | 41 | 14.0 | 0.06 | 800 | 1200 | |

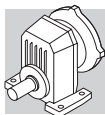


S 20



37 Nm



|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| S 20 1_1.4 | 1.4 | 2014 | 13.0 | 2.8 | 1000 | 590 | 1007 | 17.0 | 1.8 | 1000 | 740 | 496 |
| S 20 1_1.9 | 1.9 | 1481 | 13.0 | 2.1 | 1000 | 680 | 741 | 17.0 | 1.3 | 1000 | 860 | |
| S 20 1_2.4 | 2.4 | 1148 | 21 | 2.6 | 640 | 680 | 574 | 26 | 1.6 | 850 | 860 | |
| S 20 1_3.1 | 3.1 | 900 | 21 | 2.0 | 730 | 750 | 450 | 26 | 1.3 | 960 | 950 | |
| S 20 1_3.9 | 3.9 | 712 | 21 | 1.6 | 820 | 840 | 356 | 26 | 0.99 | 1000 | 1060 | |
| S 20 1_4.8 | 4.8 | 587 | 21 | 1.3 | 910 | 920 | 294 | 26 | 0.82 | 1000 | 1160 | |
| S 20 1_5.8 | 5.8 | 481 | 21 | 1.1 | 960 | 1000 | 241 | 26 | 0.67 | 1000 | 1260 | |
| S 20 1_7.2 | 7.2 | 388 | 21 | 0.87 | 980 | 1090 | 194 | 26 | 0.54 | 1000 | 1370 | |
| S 20 1_8.5 | 8.5 | 329 | 13.0 | 0.46 | 1000 | 1240 | 165 | 17.0 | 0.30 | 1000 | 1500 | |
| S 20 1_10.8 | 10.8 | 260 | 13.0 | 0.36 | 1000 | 1350 | 130 | 17.0 | 0.24 | 1000 | 1500 | |
| S 20 1_12.4 | 12.4 | 225 | 13.0 | 0.31 | 1000 | 1430 | 113 | 17.0 | 0.20 | 1000 | 1500 | |

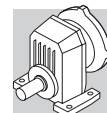
|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|--|------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|--|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| S 20 1_1.4 | 1.4 | 647 | 20 | 1.4 | 1000 | 850 | 360 | 24 | 0.92 | 1000 | 1040 | 496 |
| S 20 1_1.9 | 1.9 | 476 | 20 | 1.0 | 1000 | 990 | 265 | 24 | 0.68 | 1000 | 1210 | |
| S 20 1_2.4 | 2.4 | 369 | 30 | 1.2 | 990 | 990 | 205 | 37 | 0.81 | 1000 | 1200 | |
| S 20 1_3.1 | 3.1 | 289 | 30 | 0.93 | 1000 | 1110 | 161 | 37 | 0.64 | 1000 | 1340 | |
| S 20 1_3.9 | 3.9 | 229 | 30 | 0.73 | 1000 | 1230 | 127 | 37 | 0.50 | 1000 | 1490 | |
| S 20 1_4.8 | 4.8 | 189 | 30 | 0.60 | 1000 | 1350 | 105 | 37 | 0.41 | 1000 | 1500 | |
| S 20 1_5.8 | 5.8 | 155 | 30 | 0.50 | 1000 | 1460 | 86 | 37 | 0.34 | 1000 | 1500 | |
| S 20 1_7.2 | 7.2 | 125 | 30 | 0.40 | 1000 | 1500 | 69 | 37 | 0.27 | 1000 | 1500 | |
| S 20 1_8.5 | 8.5 | 106 | 20 | 0.23 | 1000 | 1500 | 59 | 24 | 0.15 | 1000 | 1500 | |
| S 20 1_10.8 | 10.8 | 84 | 20 | 0.18 | 1000 | 1500 | 47 | 24 | 0.12 | 1000 | 1500 | |
| S 20 1_12.4 | 12.4 | 72 | 20 | 0.15 | 1000 | 1500 | 40 | 24 | 0.10 | 1000 | 1500 | |



S 30 70 Nm

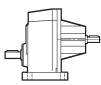

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| S 30 1_1.4 | 1.4 | 1986 | 24 | 5.1 | 1500 | 770 | 993 | 30 | 3.2 | 1500 | 970 | 498 |
| S 30 1_1.8 | 1.8 | 1530 | 24 | 3.9 | 1500 | 870 | 765 | 30 | 2.5 | 1500 | 1090 | |
| S 30 1_2.4 | 2.4 | 1157 | 40 | 4.9 | 1270 | 850 | 579 | 50 | 3.1 | 1500 | 1070 | |
| S 30 1_3.1 | 3.1 | 915 | 40 | 3.9 | 1470 | 950 | 458 | 50 | 2.4 | 1500 | 1200 | |
| S 30 1_3.9 | 3.9 | 711 | 40 | 3.0 | 1500 | 1070 | 355 | 50 | 1.9 | 1500 | 1360 | |
| S 30 1_4.9 | 4.9 | 568 | 40 | 2.4 | 1500 | 1190 | 284 | 50 | 1.5 | 1500 | 1500 | |
| S 30 1_5.8 | 5.8 | 479 | 40 | 2.0 | 1500 | 1280 | 239 | 50 | 1.3 | 1500 | 1610 | |
| S 30 1_7.1 | 7.1 | 395 | 40 | 1.7 | 1500 | 1390 | 197 | 50 | 1.1 | 1500 | 1750 | |
| S 30 1_8.9 | 8.9 | 315 | 24 | 0.81 | 1500 | 1650 | 157 | 30 | 0.50 | 1500 | 2080 | |
| S 30 1_10.3 | 10.3 | 272 | 24 | 0.70 | 1500 | 1740 | 136 | 30 | 0.44 | 1500 | 2190 | |
| S 30 1_13.1 | 13.1 | 213 | 24 | 0.55 | 1500 | 1900 | 107 | 30 | 0.34 | 1500 | 2400 | |

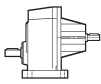

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|--|------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|--|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| S 30 1_1.4 | 1.4 | 638 | 35 | 2.4 | 1500 | 1120 | 355 | 42 | 1.6 | 1500 | 1360 | 498 |
| S 30 1_1.8 | 1.8 | 492 | 35 | 1.8 | 1500 | 1260 | 273 | 42 | 1.2 | 1500 | 1540 | |
| S 30 1_2.4 | 2.4 | 372 | 58 | 2.3 | 1500 | 1240 | 207 | 70 | 1.5 | 1500 | 1510 | |
| S 30 1_3.1 | 3.1 | 294 | 58 | 1.8 | 1500 | 1390 | 163 | 70 | 1.2 | 1500 | 1700 | |
| S 30 1_3.9 | 3.9 | 228 | 58 | 1.4 | 1500 | 1570 | 127 | 70 | 0.95 | 1500 | 1920 | |
| S 30 1_4.9 | 4.9 | 183 | 58 | 1.1 | 1500 | 1740 | 101 | 70 | 0.76 | 1500 | 2120 | |
| S 30 1_5.8 | 5.8 | 154 | 58 | 0.95 | 1500 | 1870 | 85 | 70 | 0.64 | 1500 | 2280 | |
| S 30 1_7.1 | 7.1 | 127 | 58 | 0.79 | 1500 | 2030 | 71 | 62 | 0.47 | 1500 | 2400 | |
| S 30 1_8.9 | 8.9 | 101 | 35 | 0.38 | 1500 | 2400 | 56 | 42 | 0.25 | 1500 | 2400 | |
| S 30 1_10.3 | 10.3 | 87 | 35 | 0.33 | 1500 | 2400 | 49 | 42 | 0.22 | 1500 | 2400 | |
| S 30 1_13.1 | 13.1 | 69 | 35 | 0.26 | 1500 | 2400 | 38 | 37 | 0.15 | 1500 | 2400 | |

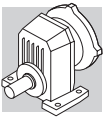


S 40

125 Nm



|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| S 40 1_1.4 | 1.4 | 2059 | 48 | 10.6 | 2000 | 1270 | 1029 | 60 | 6.6 | 2000 | 1600 | 500 |
| S 40 1_1.9 | 1.9 | 1514 | 48 | 7.8 | 2000 | 1450 | 757 | 60 | 4.9 | 2000 | 1830 | |
| S 40 1_2.4 | 2.4 | 1172 | 70 | 8.8 | 1860 | 1490 | 586 | 90 | 5.6 | 2000 | 1870 | |
| S 40 1_3.1 | 3.1 | 918 | 70 | 6.9 | 2000 | 1660 | 459 | 90 | 4.4 | 2000 | 2080 | |
| S 40 1_3.8 | 3.8 | 735 | 70 | 5.5 | 2000 | 1830 | 367 | 90 | 3.5 | 2000 | 2290 | |
| S 40 1_4.8 | 4.8 | 580 | 70 | 4.3 | 2000 | 2020 | 290 | 90 | 2.8 | 2000 | 2530 | |
| S 40 1_6.1 | 6.1 | 461 | 70 | 3.5 | 2000 | 2220 | 231 | 90 | 2.2 | 2000 | 2790 | |
| S 40 1_7.2 | 7.2 | 392 | 63 | 2.6 | 2000 | 2410 | 196 | 80 | 1.7 | 2000 | 3030 | |
| S 40 1_8.6 | 8.6 | 324 | 48 | 1.7 | 2000 | 2670 | 162 | 60 | 1.0 | 2000 | 3370 | |
| S 40 1_10.7 | 10.7 | 262 | 40 | 1.1 | 2000 | 2930 | 131 | 50 | 0.70 | 2000 | 3690 | |
| S 40 1_12.4 | 12.4 | 226 | 40 | 1.0 | 2000 | 3100 | 113 | 50 | 0.60 | 2000 | 3800 | |



|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|--|------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|--|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| S 40 1_1.4 | 1.4 | 662 | 70 | 4.9 | 2000 | 1850 | 368 | 85 | 3.3 | 2000 | 2250 | 500 |
| S 40 1_1.9 | 1.9 | 486 | 70 | 3.6 | 2000 | 2120 | 270 | 85 | 2.5 | 2000 | 2580 | |
| S 40 1_2.4 | 2.4 | 377 | 105 | 4.2 | 2000 | 2160 | 209 | 125 | 2.8 | 2000 | 2650 | |
| S 40 1_3.1 | 3.1 | 295 | 105 | 3.3 | 2000 | 2400 | 164 | 125 | 2.2 | 2000 | 2940 | |
| S 40 1_3.8 | 3.8 | 236 | 105 | 2.7 | 2000 | 2650 | 131 | 125 | 1.8 | 2000 | 3240 | |
| S 40 1_4.8 | 4.8 | 186 | 105 | 2.1 | 2000 | 2930 | 104 | 125 | 1.4 | 2000 | 3580 | |
| S 40 1_6.1 | 6.1 | 148 | 105 | 1.7 | 2000 | 3220 | 82 | 110 | 1.0 | 2000 | 3800 | |
| S 40 1_7.2 | 7.2 | 126 | 90 | 1.2 | 2000 | 3530 | 70 | 90 | 0.67 | 2000 | 3800 | |
| S 40 1_8.6 | 8.6 | 104 | 70 | 0.78 | 2000 | 3800 | 58 | 85 | 0.53 | 2000 | 3800 | |
| S 40 1_10.7 | 10.7 | 84 | 58 | 0.52 | 2000 | 3800 | 47 | 70 | 0.35 | 2000 | 3800 | |
| S 40 1_12.4 | 12.4 | 73 | 58 | 0.45 | 2000 | 3800 | 40 | 70 | 0.30 | 2000 | 3800 | |

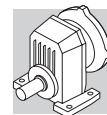


S 50

200 Nm

|  | i | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | |  |
|---|------|---|-----------------------|-----------------------|----------------------|----------------------|---|-----------------------|-----------------------|----------------------|----------------------|---|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| S 50 1_1.4 | 1.4 | 1972 | 85 | 17.9 | 730 | 1720 | 986 | 110 | 11.6 | 730 | 2150 | 502 |
| S 50 1_1.8 | 1.8 | 1564 | 85 | 14.2 | 1220 | 1920 | 782 | 110 | 9.2 | 1370 | 2400 | |
| S 50 1_2.4 | 2.4 | 1162 | 100 | 12.4 | 930 | 2110 | 581 | 130 | 8.1 | 970 | 2640 | |
| S 50 1_3.0 | 3.0 | 921 | 110 | 10.8 | 860 | 2300 | 461 | 140 | 6.9 | 1020 | 2880 | |
| S 50 1_3.8 | 3.8 | 729 | 120 | 9.3 | 640 | 2480 | 365 | 150 | 5.8 | 860 | 3130 | |
| S 50 1_4.8 | 4.8 | 589 | 120 | 7.6 | 880 | 2710 | 295 | 150 | 4.7 | 1160 | 3420 | |
| S 50 1_6.1 | 6.1 | 462 | 100 | 4.9 | 1980 | 3100 | 231 | 130 | 3.2 | 2330 | 3880 | |
| S 50 1_7.4 | 7.4 | 378 | 100 | 4.0 | 2060 | 3340 | 189 | 130 | 2.6 | 2400 | 4190 | |
| S 50 1_8.8 | 8.8 | 319 | 85 | 2.9 | 2400 | 3640 | 160 | 110 | 1.9 | 2400 | 4570 | |
| S 50 1_10.5 | 10.5 | 268 | 85 | 2.4 | 2400 | 3880 | 134 | 110 | 1.6 | 2400 | 4870 | |
| S 50 1_12.9 | 12.9 | 217 | 80 | 1.9 | 2400 | 4200 | 109 | 100 | 1.2 | 2400 | 5300 | |

|  | i | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | |  |
|--|------|--|-----------------------|-----------------------|----------------------|----------------------|--|-----------------------|-----------------------|----------------------|----------------------|--|
| | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | |
| S 50 1_1.4 | 1.4 | 634 | 125 | 8.5 | 1010 | 2510 | 352 | 155 | 5.8 | 1040 | 3040 | 502 |
| S 50 1_1.8 | 1.8 | 503 | 125 | 6.7 | 1730 | 2790 | 279 | 155 | 4.6 | 1940 | 3380 | |
| S 50 1_2.4 | 2.4 | 373 | 150 | 6.0 | 1160 | 3060 | 207 | 180 | 4.0 | 1530 | 3730 | |
| S 50 1_3.0 | 3.0 | 296 | 160 | 5.1 | 1290 | 3350 | 164 | 200 | 3.5 | 1310 | 4050 | |
| S 50 1_3.8 | 3.8 | 234 | 175 | 4.4 | 940 | 3620 | 130 | 200 | 2.8 | 1740 | 4460 | |
| S 50 1_4.8 | 4.8 | 189 | 175 | 3.5 | 1290 | 3960 | 105 | 180 | 2.0 | 2400 | 4970 | |
| S 50 1_6.1 | 6.1 | 149 | 150 | 2.4 | 2400 | 4500 | 83 | 150 | 1.3 | 2400 | 5620 | |
| S 50 1_7.4 | 7.4 | 122 | 140 | 1.8 | 2400 | 4900 | 68 | 140 | 1.0 | 2400 | 6100 | |
| S 50 1_8.8 | 8.8 | 103 | 125 | 1.4 | 2400 | 5310 | 57 | 125 | 0.80 | 2400 | 6580 | |
| S 50 1_10.5 | 10.5 | 86 | 115 | 1.1 | 2400 | 5700 | 48 | 115 | 0.60 | 2400 | 7050 | |
| S 50 1_12.9 | 12.9 | 70 | 100 | 0.70 | 2400 | 6210 | 39 | 100 | 0.40 | 2400 | 7200 | |




71 PREDISPOSITIONS MOTEUR


Dans les tableaux (E64) et (E65) sont indiqués les accouplements possibles en termes de dimensions.

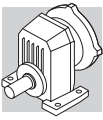
Le choix le plus approprié du motoréducteur à utiliser doit être effectué selon les indications du paragraphe 11, ainsi qu'en fonction des tableaux de sélection, respectant en particulier la condition $S \geq f_s$.

(E 68)

| | | IEC_  (IM B5) | | | | | | | | |
|---------------|------------|--|----------|----------|----------|----------|----------|---------|---------|---------|
| | | P63 | P71 | P80 | P90 | P100 | P112 | P132 | P160 | P180 |
| S 10 1 | i = | 1.4_12.3 | 1.4_12.3 | 1.4_8.9 | 1.4_8.9 | 1.4_8.9 | 1.4_8.9 | | | |
| S 20 1 | | 1.9_12.4 | 1.9_12.4 | 1.4_10.8 | 1.4_10.8 | 1.4_10.8 | 1.4_10.8 | | | |
| S 30 1 | | 2.4_13.1 | 2.4_13.1 | 1.4_13.1 | 1.4_13.1 | 1.4_13.1 | 1.4_13.1 | 1.4_4.9 | | |
| S 40 1 | | 3.1_12.4 | 3.1_12.4 | 1.4_12.4 | 1.4_12.4 | 1.4_12.4 | 1.4_12.4 | 1.4_6.1 | | |
| S 50 1 | | 3.8_12.9 | 3.8_12.9 | 1.4_12.9 | 1.4_12.9 | 1.4_12.9 | 1.4_12.9 | 1.4_7.4 | 1.4_7.4 | 1.4_7.4 |

(E 69)

| | |  | | | | | |
|---------------|------------|---|----------|----------|----------|---------|---------|
| | | M05 | M1 | M2 | M3 | M4 | M5 |
| S 10 1 | i = | 1.4_12.3 | 1.4_6.9 | 1.4_8.9 | 1.4_8.9 | | |
| S 20 1 | | 1.9_12.4 | 1.9_8.5 | 1.4_10.8 | 1.4_10.8 | | |
| S 30 1 | | | 2.4_10.3 | 1.4_13.1 | 1.4_13.1 | 1.4_4.9 | |
| S 40 1 | | | 3.1_12.4 | 1.4_12.4 | 1.4_12.4 | 1.4_6.1 | |
| S 50 1 | | | 3.8_12.9 | 1.4_12.9 | 1.4_12.9 | 1.4_7.4 | 1.4_7.4 |



72 MOMENT D'INERTIE

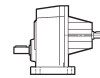
Les tableaux suivants indiquent les valeurs du moment d'inertie J_r [kgm²] au niveau de l'arbre rapide du réducteur ; pour une plus grande facilité de lecture, nous vous prions de noter les définitions des symboles employés.



Les valeurs liées à ces symboles sont à assigner au réducteur compact sans moteur. Dans ce cas, afin d'avoir le moment d'inertie total du motoréducteur, on devra additionner la valeur correspondant au réducteur compact, à celle du moteur à assembler (donnée que l'on peut repérer dans les tableaux des caractéristiques techniques des moteurs électriques).



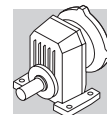
Les valeurs liées à ces symboles sont à assigner au réducteur prédisposé pour accouplement moteur seulement (taille IEC...).






Les valeurs liées au réducteur sont assignées à ce symbole.

S 10




| | i | J (•10 ⁻⁴) [kgm ²] | | | | | | | |
|--------------------|------|--|-----|-----|-----|-----|-----|-----|------|
| | | | | | | | | | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | |
| S 10 1_1.4 | 1.4 | 0.33 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 1.2 |
| S 10 1_1.9 | 1.9 | 0.22 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 1.1 |
| S 10 1_2.5 | 2.5 | 0.16 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 1.0 |
| S 10 1_3.2 | 3.2 | 0.10 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 0.97 |
| S 10 1_3.9 | 3.9 | 0.08 | 1.5 | 1.5 | 2.9 | 2.9 | 4.2 | 4.2 | 0.95 |
| S 10 1_4.7 | 4.7 | 0.06 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.93 |
| S 10 1_6.1 | 6.1 | 0.04 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.92 |
| S 10 1_6.9 | 6.9 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.91 |
| S 10 1_8.9 | 8.9 | 0.02 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 0.90 |
| S 10 1_10.3 | 10.3 | 0.02 | 1.5 | 1.5 | — | — | — | — | 0.89 |
| S 10 1_12.3 | 12.3 | 0.01 | 1.5 | 1.5 | — | — | — | — | 0.89 |

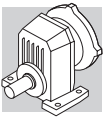


S 20



| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | |
|-------------|------|---|---|-----|-----|-----|-----|-----|---|
| | |  | IEC  | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | |
| S 20 1_1.4 | 1.4 | 0.73 | — | — | 3.6 | 3.5 | 4.8 | 4.8 | 2.7 |
| S 20 1_1.9 | 1.9 | 0.48 | 1.9 | 1.9 | 3.3 | 3.3 | 4.6 | 4.6 | 2.4 |
| S 20 1_2.4 | 2.4 | 0.34 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 2.3 |
| S 20 1_3.1 | 3.1 | 0.20 | 1.7 | 1.7 | 3.0 | 3.0 | 4.3 | 4.3 | 2.1 |
| S 20 1_3.9 | 3.9 | 0.14 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.1 |
| S 20 1_4.8 | 4.8 | 0.12 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | 2.0 |
| S 20 1_5.8 | 5.8 | 0.08 | 1.6 | 1.5 | 2.9 | 2.9 | 4.2 | 4.2 | 2.0 |
| S 20 1_7.2 | 7.2 | 0.06 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 2.0 |
| S 20 1_8.5 | 8.5 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 2.0 |
| S 20 1_10.8 | 10.8 | 0.03 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | 1.9 |
| S 20 1_12.4 | 12.4 | 0.02 | 1.5 | 1.5 | — | — | — | — | 1.9 |

S 30



| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | |
|-------------|------|---|---|-----|-----|-----|-----|-----|-----|---|
| | |  | IEC  | | | | | | |  |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | |
| S 30 1_1.4 | 1.4 | 1.5 | — | — | 4.3 | 4.3 | 5.6 | 5.6 | 18 | 3.8 |
| S 30 1_1.8 | 1.8 | 1.1 | — | — | 3.9 | 3.8 | 5.1 | 5.1 | 18 | 3.4 |
| S 30 1_2.4 | 2.4 | 0.59 | 2.1 | 2.0 | 3.4 | 3.4 | 4.7 | 4.7 | 17 | 2.9 |
| S 30 1_3.1 | 3.1 | 0.45 | 1.9 | 1.9 | 3.3 | 3.2 | 4.5 | 4.5 | 17 | 2.8 |
| S 30 1_3.9 | 3.9 | 0.33 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | 17 | 2.7 |
| S 30 1_4.9 | 4.9 | 0.24 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | 17 | 2.6 |
| S 30 1_5.8 | 5.8 | 0.19 | 1.7 | 1.7 | 3.0 | 3.0 | 4.3 | 4.3 | — | 2.6 |
| S 30 1_7.1 | 7.1 | 0.14 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 2.5 |
| S 30 1_8.9 | 8.9 | 0.10 | 1.6 | 1.6 | 2.9 | 2.9 | 4.2 | 4.2 | — | 2.5 |
| S 30 1_10.3 | 10.3 | 0.08 | 1.5 | 1.5 | 2.9 | 2.9 | 4.2 | 4.2 | — | 2.4 |
| S 30 1_13.1 | 13.1 | 0.05 | 1.5 | 1.5 | 2.9 | 2.8 | 4.1 | 4.1 | — | 2.4 |

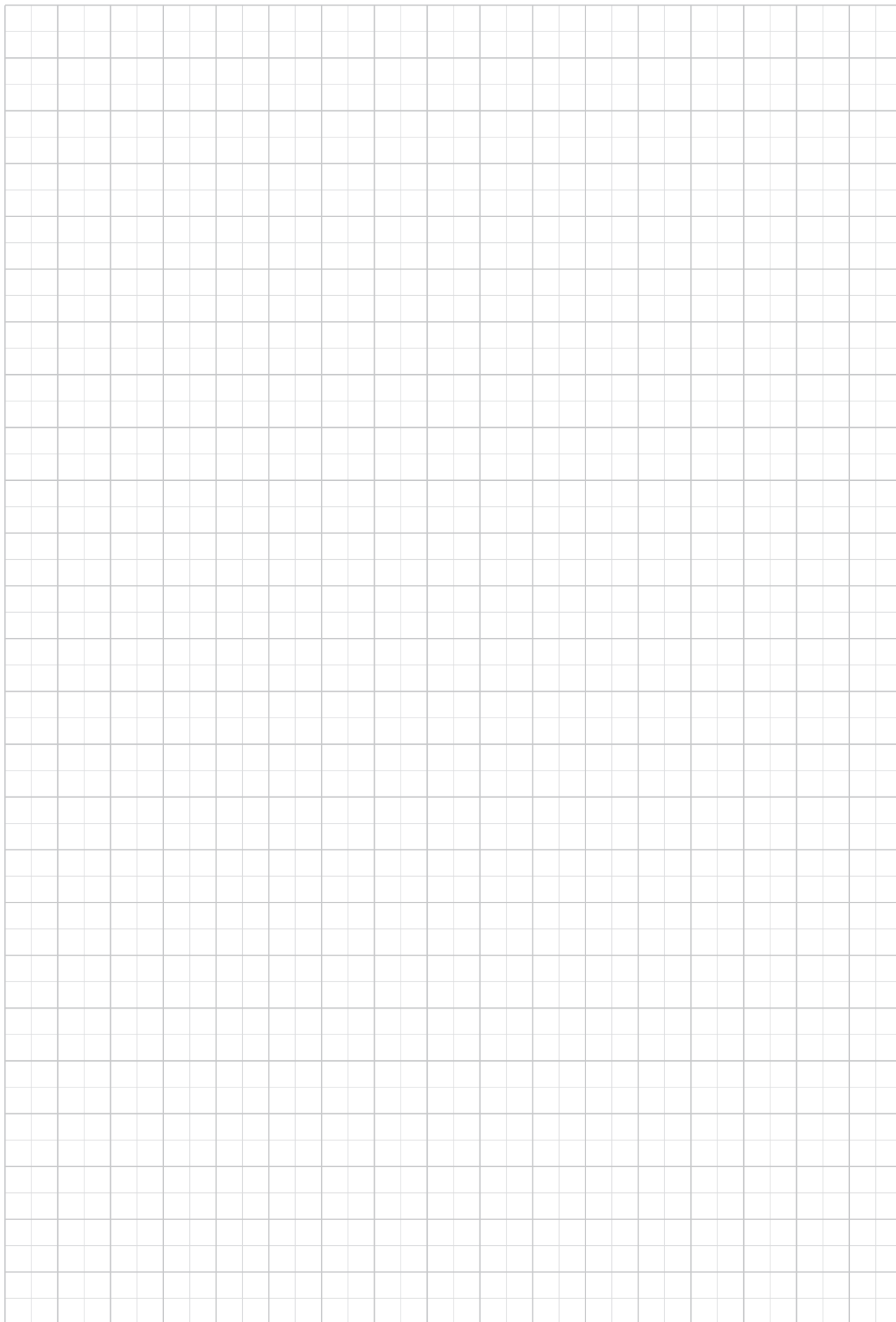
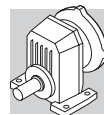


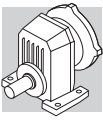
S 40

| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | |
|-------------|------|---|-----|-----|-----|-----|-----|-----|---|----|
| | |  | IEC | | | | | |  | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | |
| S 40 1_1.4 | 1.4 | 3.7 | — | — | 6.5 | 6.5 | 7.8 | 7.8 | 23 | 14 |
| S 40 1_1.9 | 1.9 | 2.4 | — | — | 5.2 | 5.2 | 6.5 | 6.5 | 21 | 13 |
| S 40 1_2.4 | 2.4 | 1.6 | — | — | 4.4 | 4.4 | 5.7 | 5.7 | 21 | 12 |
| S 40 1_3.1 | 3.1 | 1.1 | 2.6 | 2.6 | 4.0 | 3.9 | 5.2 | 5.2 | 20 | 12 |
| S 40 1_3.8 | 3.8 | 0.82 | 2.3 | 2.3 | 3.7 | 3.6 | 4.9 | 4.9 | 18 | 11 |
| S 40 1_4.8 | 4.8 | 0.50 | 2.0 | 2.0 | 3.3 | 3.3 | 4.6 | 4.6 | 18 | 11 |
| S 40 1_6.1 | 6.1 | 0.39 | 1.8 | 1.8 | 3.2 | 3.2 | 4.5 | 4.5 | 18 | 11 |
| S 40 1_7.2 | 7.2 | 0.30 | 1.8 | 1.8 | 3.1 | 3.1 | 4.4 | 4.4 | — | 11 |
| S 40 1_8.6 | 8.6 | 0.22 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | 11 |
| S 40 1_10.7 | 10.7 | 0.15 | 1.6 | 1.6 | 3.0 | 2.9 | 4.2 | 4.2 | — | 11 |
| S 40 1_12.4 | 12.4 | 0.12 | 1.6 | 1.6 | 3.0 | 2.8 | 4.2 | 4.2 | — | 11 |

S 50

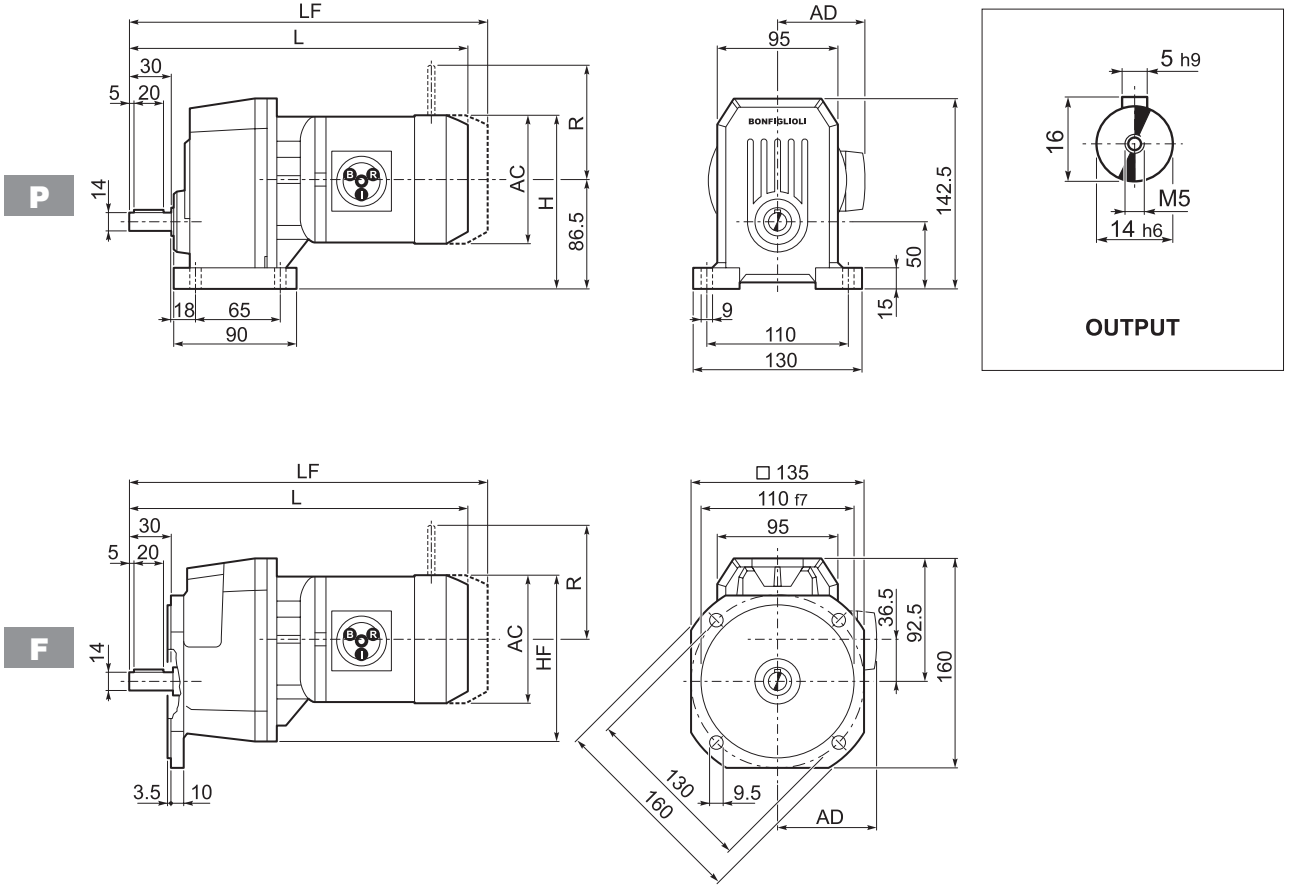
| | i | J ($\cdot 10^{-4}$) [kgm ²] | | | | | | | | | | |
|-------------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|---|----|
| | |  | IEC | | | | | | | |  | |
| | | | 63 | 71 | 80 | 90 | 100 | 112 | 132 | 160 | 180 | |
| S 50 1_1.4 | 1.4 | 8.2 | — | — | 11 | 11 | 12 | 12 | 27 | 86 | 84 | 19 |
| S 50 1_1.8 | 1.8 | 5.9 | — | — | 8.8 | 8.7 | 10 | 10 | 25 | 84 | 82 | 16 |
| S 50 1_2.4 | 2.4 | 3.9 | — | — | 6.8 | 6.7 | 8.0 | 8.0 | 23 | 82 | 80 | 14 |
| S 50 1_3.0 | 3.0 | 2.7 | — | — | 5.5 | 5.5 | 6.8 | 6.8 | 22 | 81 | 79 | 13 |
| S 50 1_3.8 | 3.8 | 1.9 | 3.3 | 3.3 | 4.7 | 4.6 | 5.9 | 5.9 | 21 | 80 | 78 | 12 |
| S 50 1_4.8 | 4.8 | 1.4 | 2.8 | 2.8 | 4.2 | 4.1 | 5.4 | 5.4 | 21 | 79 | 77 | 12 |
| S 50 1_6.1 | 6.1 | 0.89 | 2.4 | 2.4 | 3.7 | 3.7 | 5.0 | 5.0 | 21 | 79 | 77 | 11 |
| S 50 1_7.4 | 7.4 | 0.63 | 2.1 | 2.1 | 3.5 | 3.4 | 4.7 | 4.7 | 20 | 79 | 77 | 11 |
| S 50 1_8.8 | 8.8 | 0.50 | 2.0 | 2.0 | 3.4 | 3.3 | 4.6 | 4.6 | — | — | — | 11 |
| S 50 1_10.5 | 10.5 | 0.36 | 1.8 | 1.8 | 3.2 | 3.1 | 4.4 | 4.4 | — | — | — | 11 |
| S 50 1_12.9 | 12.9 | 0.25 | 1.7 | 1.7 | 3.1 | 3.0 | 4.3 | 4.3 | — | — | — | 11 |



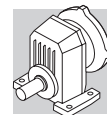


73 DIMENSIONS

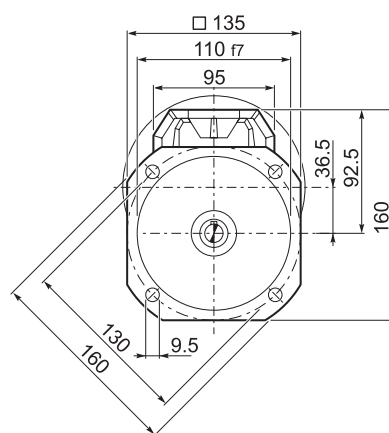
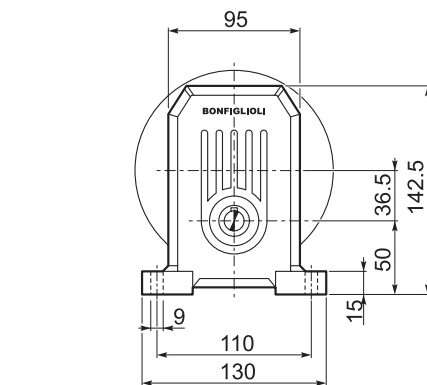
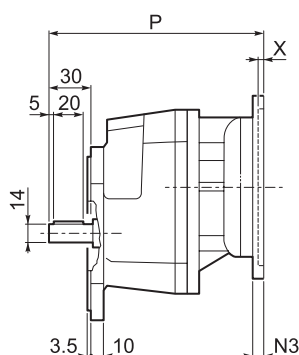
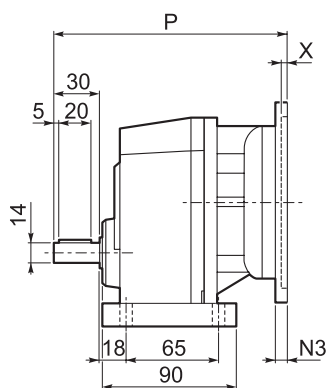
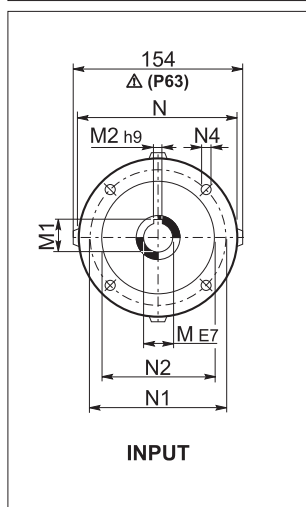
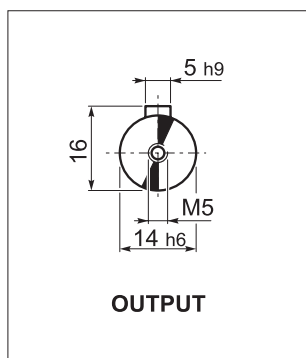
S 10...M



| Motor Icon | S | M | AC | H | HF | L | AD | Kg | M...FD M...FA | | M...FD | | M...FA | | |
|------------|--------|-----|-----|-----|-----|-----|-----|-----|------------------|-----|--------|-----|--------|-----|-----|
| | | | | | | | | | LF | Kg | R | AD | R | AD | |
| | S 10 1 | S05 | M05 | 121 | 147 | 143 | 315 | 95 | 8 | 381 | 11 | 96 | 122 | 116 | 95 |
| | S 10 1 | S1 | M1 | 137 | 155 | 151 | 344 | 102 | 10 | 405 | 13 | 103 | 135 | 124 | 108 |
| | S 10 1 | S2 | M2S | 156 | 164 | 160 | 367 | 111 | 13 | 443 | 17 | 129 | 146 | 134 | 119 |
| | S 10 1 | S3 | M3S | 195 | 184 | 180 | 416 | 135 | 19 | 512 | 24 | 160 | 158 | 160 | 142 |
| | S 10 1 | S3 | M3L | 195 | 184 | 180 | 448 | 135 | 21 | 539 | 26 | 160 | 158 | 160 | 142 |

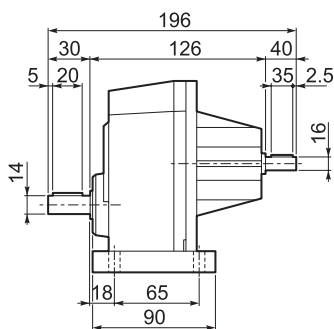
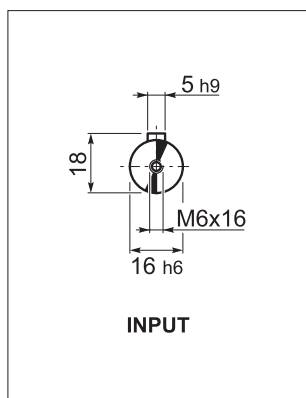


S 10...P (IEC)

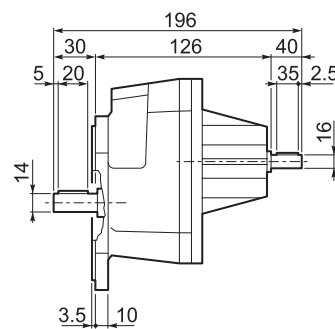


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | P | X | Kg |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-----|----|
| S 10 1 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x10 | 189 | 4 | 5 |
| S 10 1 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x10 | 189 | 4.5 | 5 |
| S 10 1 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 208 | 4 | 6 |
| S 10 1 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 208 | 4 | 6 |
| S 10 1 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 218 | 4.5 | 10 |
| S 10 1 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 218 | 4.5 | 10 |

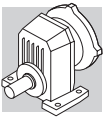
S 10...HS



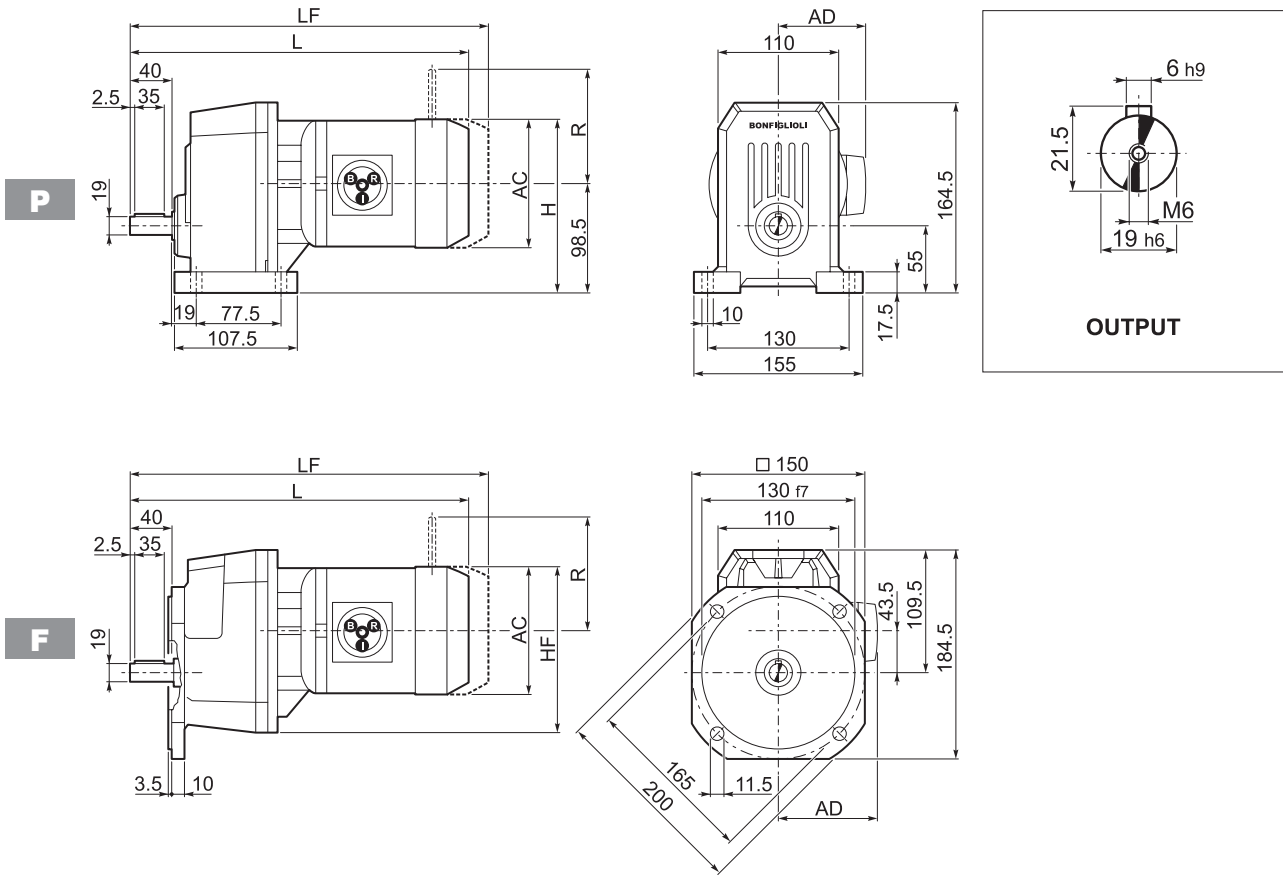
| | |
|----|-----|
| Kg | 4.4 |
|----|-----|



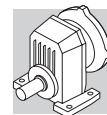
| | |
|----|-----|
| Kg | 4.5 |
|----|-----|



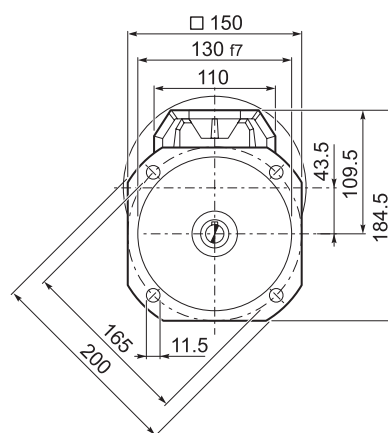
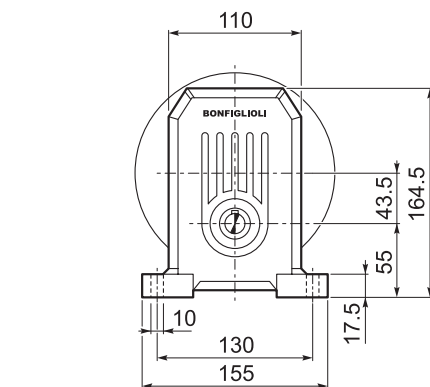
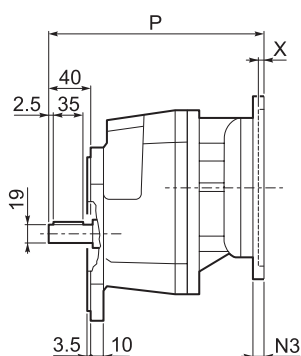
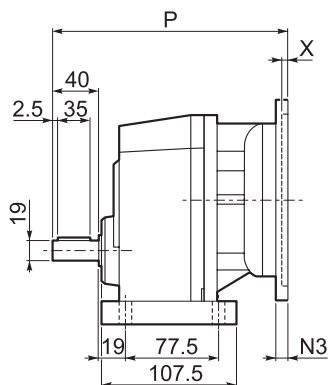
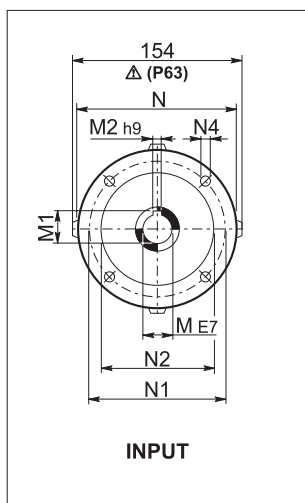
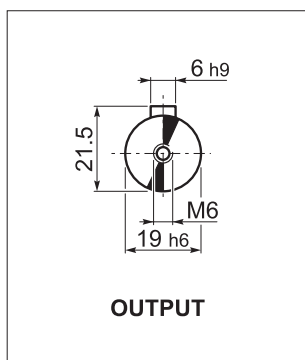
S 20...M



| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|--------|-----|-----|-----|-----|-----|-------|-----|----|-------|------------------|-----|--------|-----|--------|--|
| | | | AC | H | HF | L | AD | | LF | | R | AD | R | AD | |
| S 20 1 | S05 | M05 | 121 | 159 | 153 | 333.5 | 95 | 10 | 399.5 | 12 | 96 | 122 | 116 | 95 | |
| S 20 1 | S1 | M1 | 137 | 167 | 161 | 362.5 | 102 | 12 | 423.5 | 14 | 103 | 135 | 124 | 108 | |
| S 20 1 | S2 | M2S | 156 | 176 | 170 | 385.5 | 111 | 16 | 461.5 | 19 | 129 | 146 | 134 | 119 | |
| S 20 1 | S3 | M3S | 195 | 196 | 190 | 434.5 | 135 | 20 | 530.5 | 25 | 160 | 158 | 160 | 142 | |
| S 20 1 | S3 | M3L | 195 | 196 | 190 | 466.5 | 135 | 26 | 557.5 | 31 | 160 | 158 | 160 | 142 | |

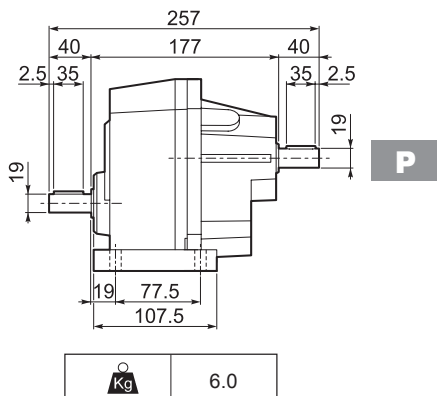
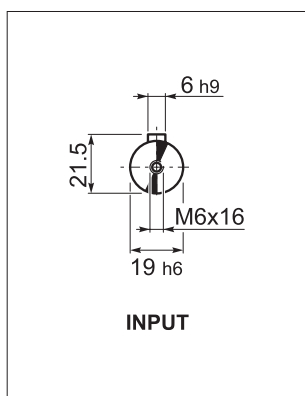


S 20...P(IEC)

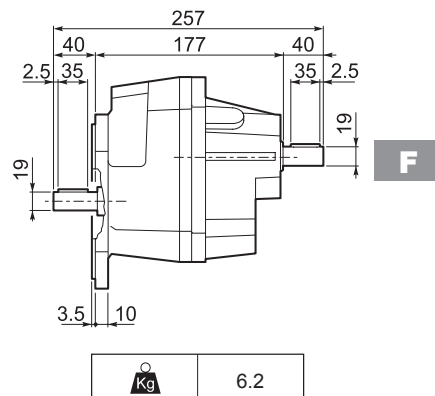


| | | M | M1 | M2 | N | N1 | N2 | N3 | N4 | P | X | kg |
|--------|------|----|------|----|-----|-----|-----|----|--------|-----|-----|----|
| S 20 1 | P63 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x10 | 207 | 4 | 6 |
| S 20 1 | P71 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x10 | 207 | 4.5 | 6 |
| S 20 1 | P80 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 227 | 4 | 7 |
| S 20 1 | P90 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 227 | 4 | 7 |
| S 20 1 | P100 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 237 | 4.5 | 11 |
| S 20 1 | P112 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 237 | 4.5 | 11 |

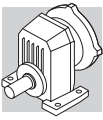
S 20...HS



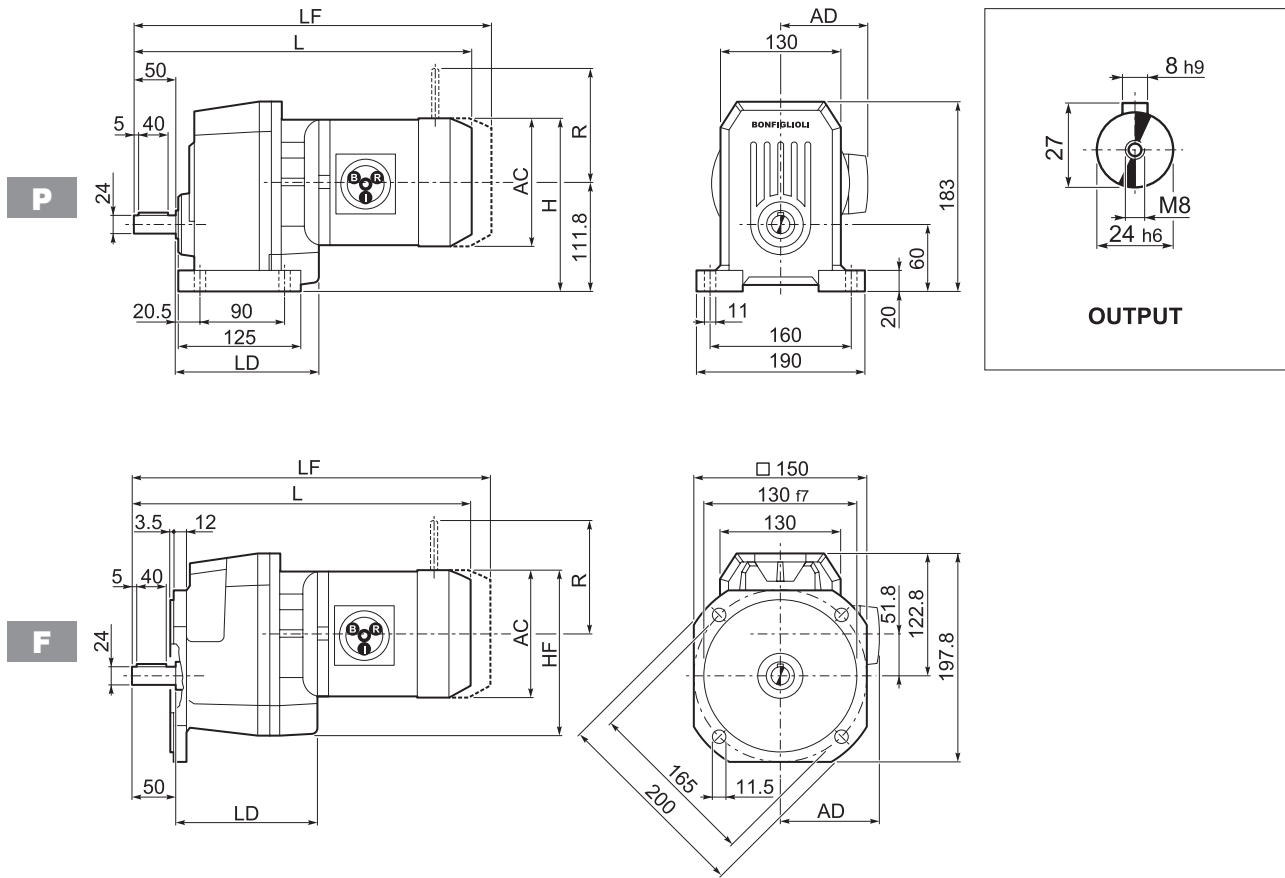
| | |
|----|-----|
| kg | 6.0 |
|----|-----|



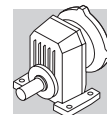
| | |
|----|-----|
| kg | 6.2 |
|----|-----|



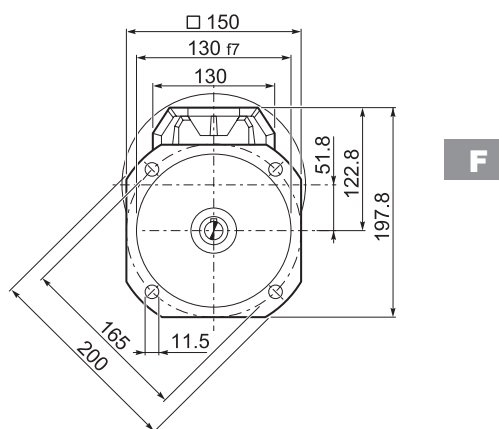
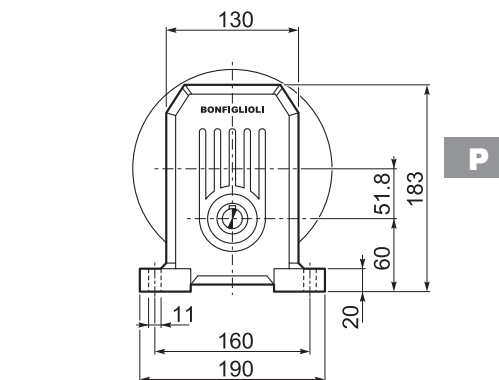
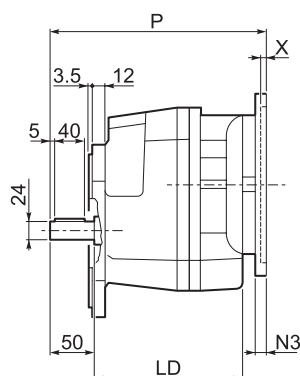
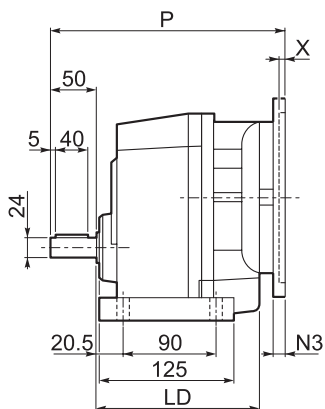
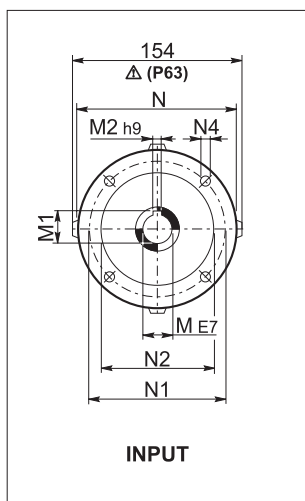
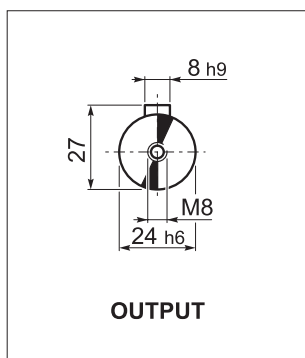
S 30...M



| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|--------|----|------|-----|-------|-----|-------|-------|-----|----|------------------|----|--------|-----|--------|-----|
| | | | AC | H | HF | L | LD | AD | | LF | | R | AD | R | AD |
| S 30 1 | S1 | M1 | 137 | 180 | 177 | 387.5 | 140.5 | 102 | 14 | 448.5 | 16 | 103 | 135 | 124 | 108 |
| S 30 1 | S2 | M2S | 156 | 190 | 186 | 410.5 | 152.5 | 111 | 18 | 486.5 | 21 | 129 | 146 | 134 | 119 |
| S 30 1 | S3 | M3S | 195 | 209 | 206 | 459.5 | 162.5 | 135 | 23 | 555.5 | 28 | 160 | 158 | 160 | 142 |
| S 30 1 | S3 | M3L | 195 | 209 | 206 | 491.5 | 162.5 | 135 | 32 | 582.5 | 37 | 160 | 158 | 160 | 142 |
| S 30 1 | S4 | M4 | 258 | 240.8 | 237 | 599.5 | — | 193 | 71 | 708.5 | 87 | 226 | 210 | 217 | 193 |
| S 30 1 | S4 | M4LC | 258 | 240.8 | 237 | 634.5 | — | 193 | 79 | 733.5 | 95 | 226 | 210 | 217 | 193 |

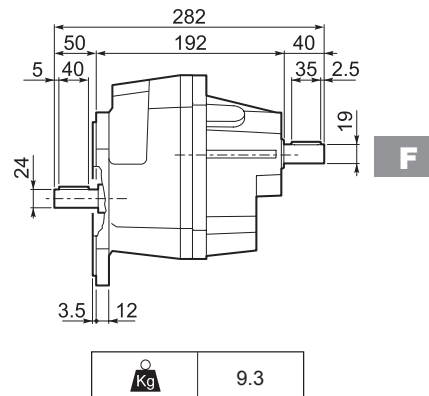
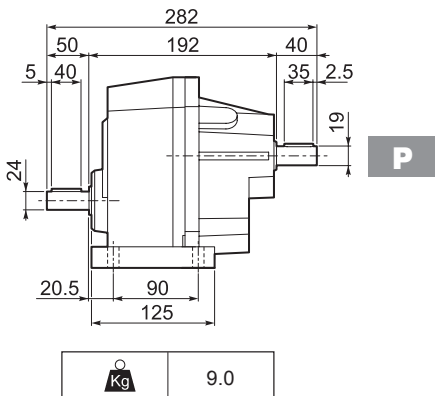
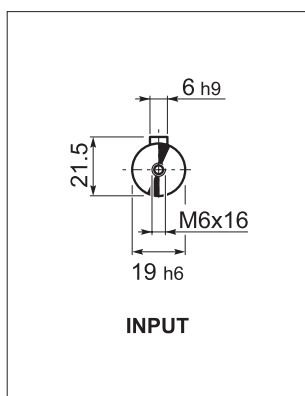


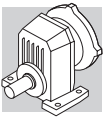
S 30...P(IEC)



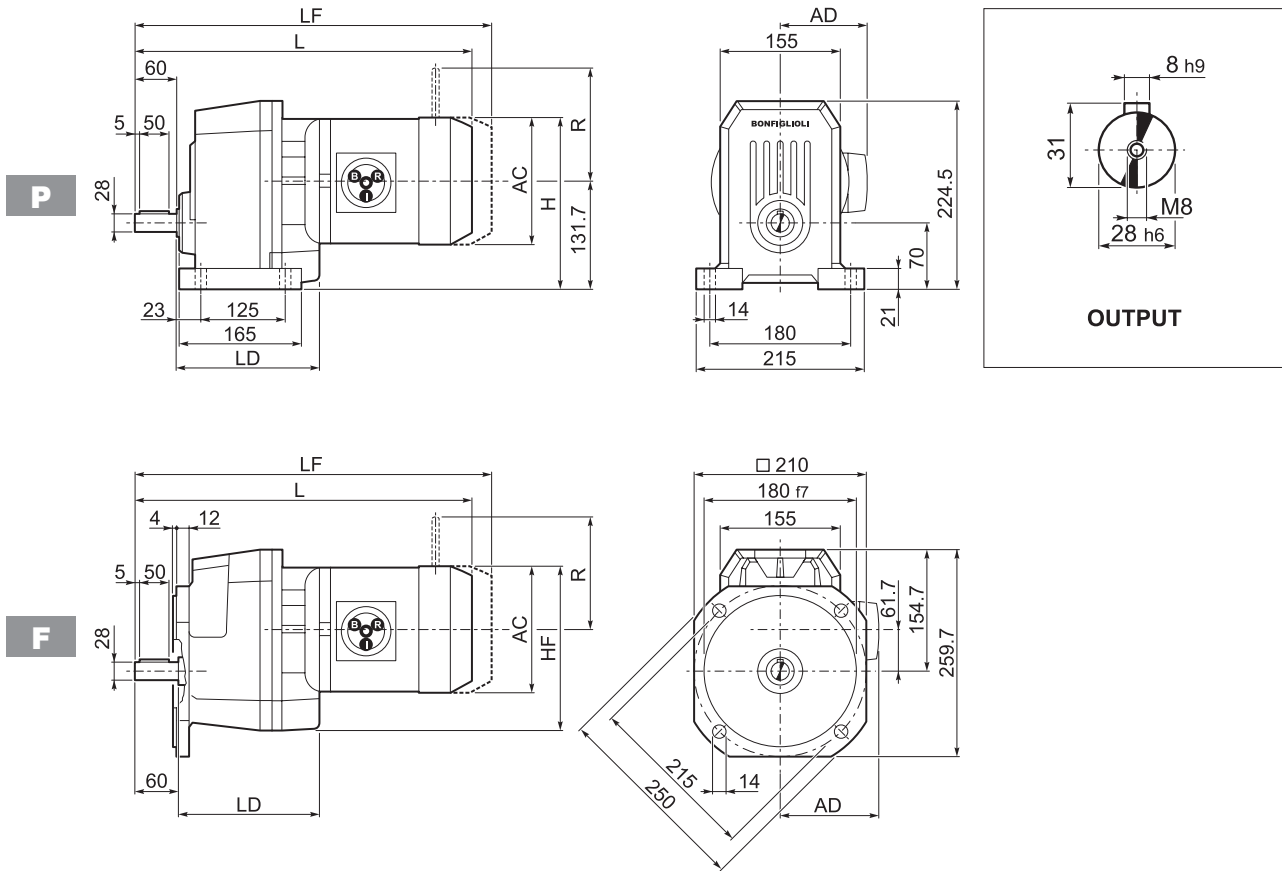
| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | P | X | kg |
|--------|------|-------|----|------|----|-----|-----|-----|----|--------|-------|-----|----|
| S 30 1 | P63 | 152.5 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x10 | 232 | 4 | 8 |
| S 30 1 | P71 | 152.5 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x10 | 232 | 4.5 | 8 |
| S 30 1 | P80 | 162.5 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 252 | 4 | 9 |
| S 30 1 | P90 | 162.5 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 252 | 4 | 9 |
| S 30 1 | P100 | 162.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 262 | 4.5 | 13 |
| S 30 1 | P112 | 162.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 262 | 4.5 | 13 |
| S 30 1 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 298.5 | 5 | 21 |

S 30...HS

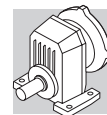




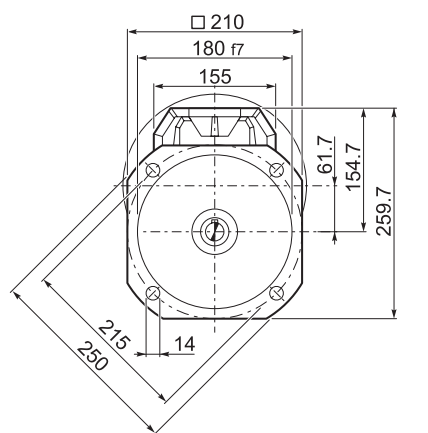
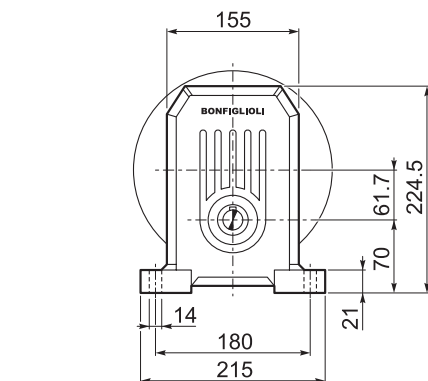
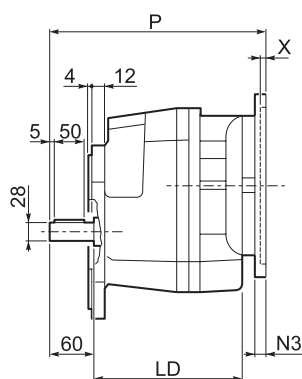
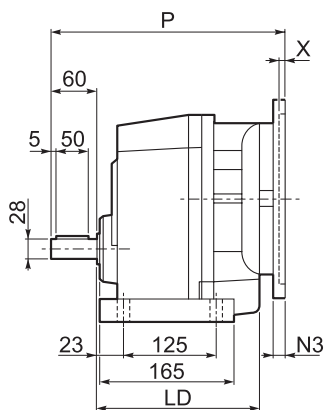
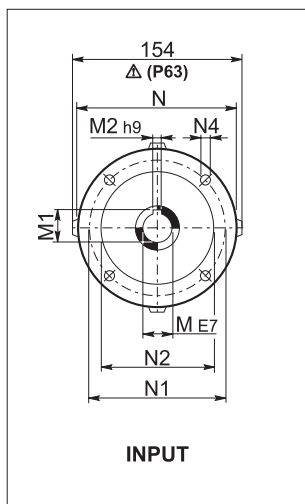
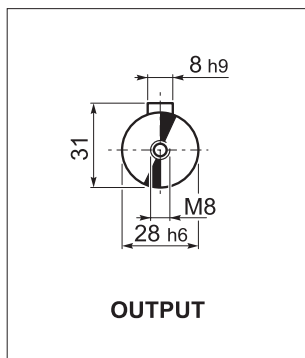
S 40...M



| | | | | | | | | | | M...FD M...FA | | M...FD | | M...FA | |
|--------|----|------|-----|-----|-----|-------|-------|-----|----|------------------|-----|--------|-----|--------|-----|
| | | | AC | H | HF | L | LD | AD | | LF | | R | AD | R | AD |
| S 40 1 | S1 | M1 | 137 | 200 | 197 | 429.5 | 168 | 102 | 28 | 490.5 | 31 | 103 | 135 | 124 | 108 |
| S 40 1 | S2 | M2S | 156 | 210 | 206 | 452.5 | 183.5 | 111 | 34 | 528.5 | 37 | 129 | 146 | 134 | 119 |
| S 40 1 | S3 | M3S | 195 | 229 | 226 | 501.5 | 199.5 | 135 | 39 | 597.5 | 44 | 160 | 158 | 160 | 142 |
| S 40 1 | S3 | M3L | 195 | 229 | 226 | 533.5 | 199.5 | 135 | 48 | 624.5 | 53 | 160 | 158 | 160 | 142 |
| S 40 1 | S4 | M4 | 258 | 261 | 257 | 641.5 | — | 193 | 74 | 750.5 | 86 | 226 | 210 | 217 | 193 |
| S 40 1 | S4 | M4LC | 258 | 261 | 257 | 676.5 | — | 193 | 90 | 775.5 | 106 | 226 | 210 | 217 | 193 |

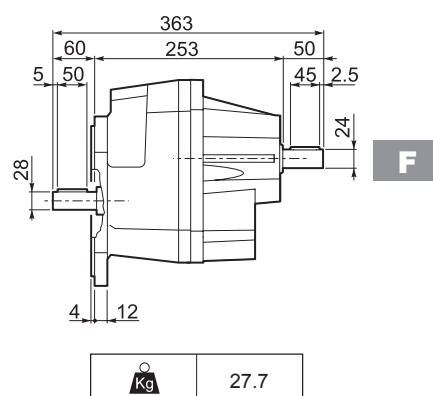
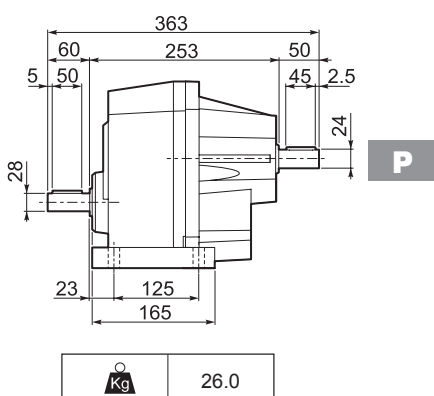
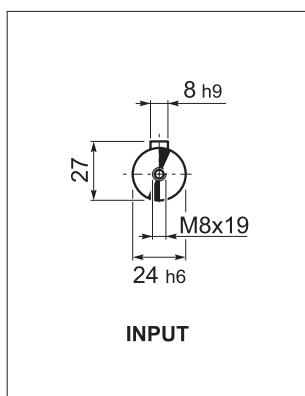


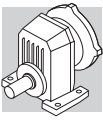
S 40...P(IEC)



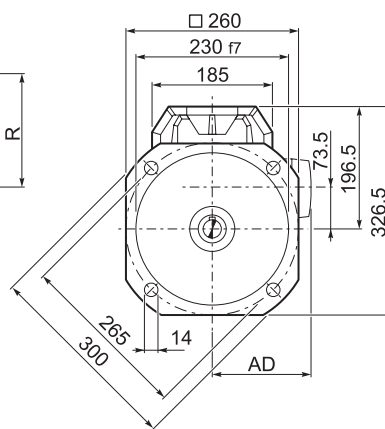
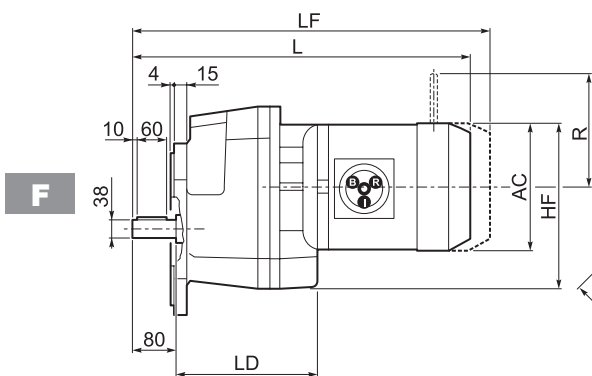
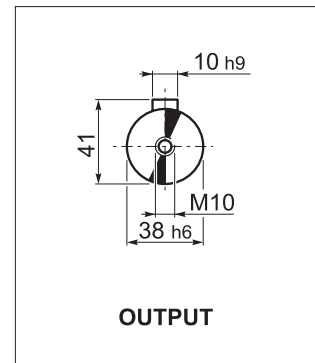
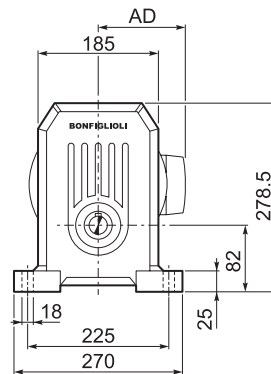
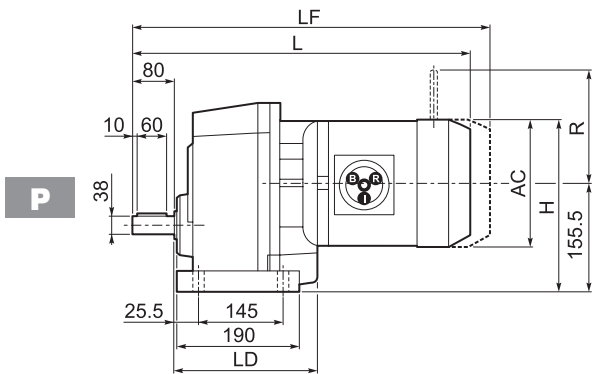
| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | P | X | Kg |
|--------|------|-------|----|------|----|-----|-----|-----|----|--------|-----|-----|----|
| S 40 1 | P63 | 183.5 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x10 | 274 | 4 | 25 |
| S 40 1 | P71 | 183.5 | 14 | 16.3 | 5 | 160 | 130 | 110 | — | M8x10 | 274 | 4.5 | 26 |
| S 40 1 | P80 | 199.5 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 294 | 4 | 26 |
| S 40 1 | P90 | 199.5 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 294 | 4 | 30 |
| S 40 1 | P100 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 304 | 4.5 | 30 |
| S 40 1 | P112 | — | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 304 | 4.5 | 30 |
| S 40 1 | P132 | — | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 340 | 5 | 32 |

S 40...HS

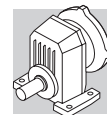




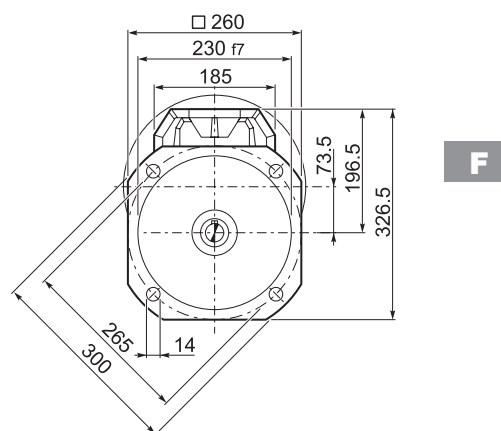
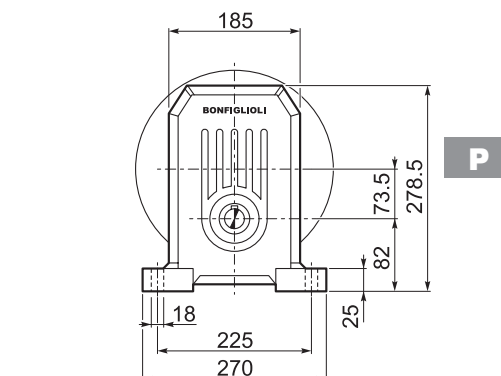
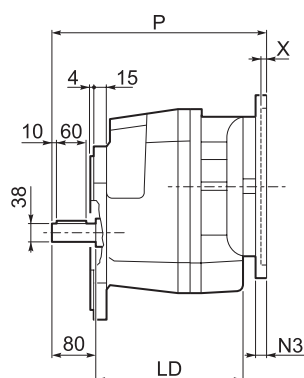
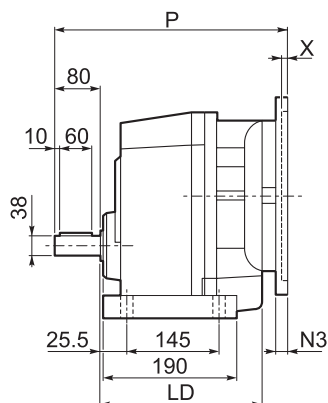
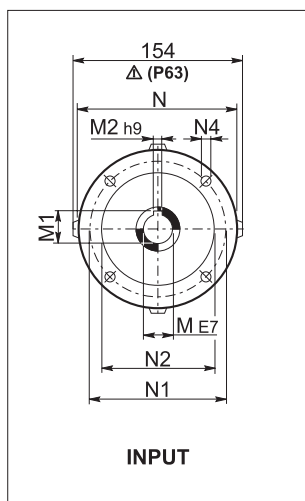
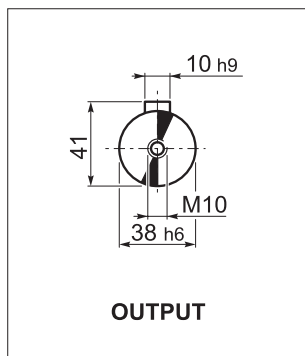
S 50...M



| Motor Type | Flange | Output | AC | H | HF | L | LD | AD | Kg | M...FD M...FA | | M...FD | | M...FA | |
|------------|--------|--------|-----|-------|-----|-------|-------|-----|-----|------------------|-----|--------|-----|--------|-----|
| | | | | | | | | | | LF | Kg | R | AD | R | AD |
| S 50 1 | S1 | M1 | 137 | 225 | 222 | 469 | — | 102 | 40 | 530 | 42 | 103 | 135 | 124 | 108 |
| S 50 1 | S2 | M2S | 156 | 233 | 230 | 492.5 | 204.5 | 111 | 44 | 568.5 | 47 | 129 | 146 | 134 | 119 |
| S 50 1 | S3 | M3S | 195 | 253 | 250 | 541.5 | 219.5 | 135 | 51 | 637.5 | 56 | 160 | 158 | 160 | 142 |
| S 50 1 | S3 | M3L | 195 | 253 | 250 | 573.5 | 219.5 | 135 | 60 | 664.5 | 65 | 160 | 158 | 160 | 142 |
| S 50 1 | S4 | M4 | 258 | 284 | 281 | 681.5 | 204.5 | 193 | 86 | 790.5 | 98 | 226 | 210 | 217 | 193 |
| S 50 1 | S4 | M4LC | 258 | 284 | 281 | 716.5 | 204.5 | 193 | 94 | 815.5 | 106 | 226 | 210 | 217 | 193 |
| S 50 1 | S5 | M5S | 310 | 310.5 | 307 | 768 | — | 245 | 114 | 908 | 138 | 266 | 245 | 247 | 245 |
| S 50 1 | S5 | M5L | 310 | 310.5 | 307 | 812 | — | 245 | 130 | 952 | 154 | 266 | 245 | 247 | 245 |

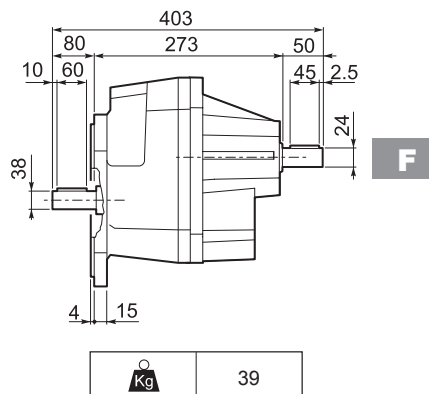
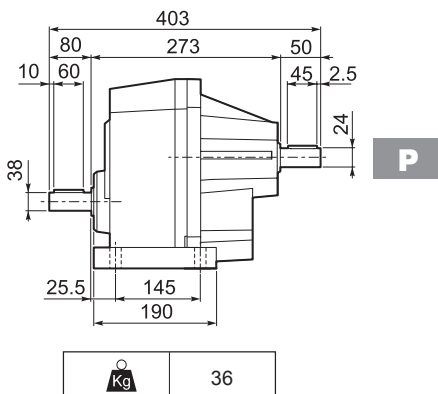
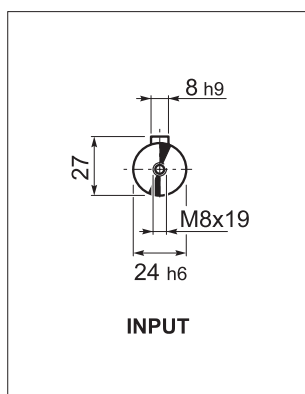


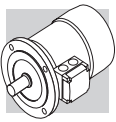
S 50...P(IEC)



| | | LD | M | M1 | M2 | N | N1 | N2 | N3 | N4 | P | X | kg |
|--------|------|-------|----|------|----|-----|-----|-----|----|--------|-----|-----|----|
| S 50 1 | P63 | 204.5 | 11 | 12.8 | 4 | 140 | 115 | 95 | — | M8x10 | 314 | 4 | 35 |
| S 50 1 | P71 | 204.5 | 14 | 12.8 | 4 | 160 | 130 | 110 | — | M8x10 | 314 | 4.5 | 35 |
| S 50 1 | P80 | 219.5 | 19 | 16.3 | 5 | 200 | 165 | 130 | — | M10x12 | 314 | 4 | 37 |
| S 50 1 | P90 | 219.5 | 24 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 334 | 4 | 37 |
| S 50 1 | P100 | 204.5 | 28 | 27.3 | 8 | 250 | 215 | 180 | — | M12x16 | 344 | 4.5 | 41 |
| S 50 1 | P112 | 204.5 | 28 | 31.3 | 8 | 250 | 215 | 180 | — | M12x16 | 344 | 4.5 | 41 |
| S 50 1 | P132 | 204.5 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 14 | 380 | 5 | 44 |
| S 50 1 | P160 | — | 42 | 45.3 | 12 | 350 | 300 | 250 | 23 | 18 | 431 | 5.5 | 48 |
| S 50 1 | P180 | — | 48 | 51.8 | 14 | 350 | 300 | 250 | 23 | 18 | 431 | 5.5 | 48 |

S 50...HS

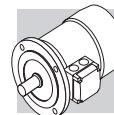




MOTEURS ELECTRIQUES

M1 SYMBOLES ET UNITES DE MESURE

| Symboles | Unités de mesure | Descrizione | Symboles | Unités de mesure | Descrizione |
|------------|---------------------|---------------------------------------|-----------|----------------------|---|
| $\cos\phi$ | – | Facteur de puissance | n | [min ⁻¹] | Vitesse nominale |
| η | – | Rendement | P_B | [W] | Puissance absorbée par le frein à 20°C |
| f_m | – | Facteur de correction de la puissance | P_n | [kW] | Puissance nominale |
| I | – | Rapport d'intermittence | P_r | [kW] | Puissance nécessaire |
| I_N | [A] | Courant nominal | t_1 | [ms] | Temps de déblocage du frein avec alimentation à demi-onde |
| I_s | [A] | Courant de démarrage | t_{1s} | [ms] | Temps de déblocage du frein avec alimentation à contrôle électronique |
| J_C | [Kgm ²] | Moment d'inertie de la charge | t_2 | [ms] | Retard de freinage avec coupure coté c.a. |
| J_M | [Kgm ²] | Moment d'inertie du moteur | t_{2c} | [ms] | Retard de freinage avec coupure coté c.a. et c.c. |
| K_C | – | Facteur de couple | t_a | [°C] | Température ambiante |
| K_d | – | Facteur de charge | t_f | [min] | Temps de fonctionnement à charge constante |
| K_J | – | Facteur d'inertie | t_r | [min] | Temps de repos |
| M_A | [Nm] | Couple d'accélération moyen | W | [J] | Energie de freinage accumulée entre deux réglages de l'entrefer |
| M_B | [Nm] | Couple du frein | W_{max} | [J] | Energie maxi par freinage |
| M_N | [Nm] | Couple nominal | Z | [1/h] | Nombre de démarrages admissibles en charge |
| M_L | [Nm] | Couple résistant moyen | Z_0 | [1/h] | Nombre de démarrages admissibles à vide (I = 50%) |
| M_S | [Nm] | Couple de démarrage | | | |



M2 CARACTERISTIQUES GENERALES

M2.1 Programme de production

Les moteurs électriques asynchrones triphasés du programme de production de BONFIGLIOLI RIDUTTORI sont prévus dans les formes de construction de base IMB5, IMB14 et leur dérivés avec les polarités suivantes : 2, 4, 6, 2/4, 2/6, 2/8, 2/12.

Dans le présent catalogue sont également mises en évidence les caractéristiques techniques des moteurs en version compacte, type M.

M2.2 Réglementations

Les moteurs décrits dans ce catalogue sont construits en accord avec les Normes et standardisations applicables mises en évidence dans le tableau ci-dessous.

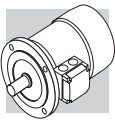
(F 1)

| Titre | CEI | IEC |
|--|-----------------|--------------|
| Prescriptions générales pour machines électriques tournantes | CEI EN 60034-1 | IEC 60034-1 |
| Définitions des bornes et sens de rotation pour machines électriques tournantes | CEI 2-8 | IEC 60034-8 |
| Méthodes de refroidissement des machines électriques | CEI EN 60034-6 | IEC 60034-6 |
| Dimensions, puissances nominales pour machines électriques tournantes | EN 50347 | IEC 60072 |
| Classification des degrés de protection des machines électriques tournantes | CEI EN 60034-5 | IEC 60034-5 |
| Limites de bruit | CEI EN 60034-9 | IEC 60034-9 |
| Sigles de dénomination des formes de construction et des types d'installation | CEI EN 60034-7 | IEC 60034-7 |
| Tension nominale pour les systèmes de distribution publique de l'énergie électrique en basse tension | CEI 8-6 | IEC 60038 |
| Degré de vibration des machines électriques | CEI EN 60034-14 | IEC 60034-14 |

En outre, les moteurs correspondent aux Normes étrangères adaptées aux IEC 60034-1 indiquées dans le tableau ci-dessous.

(F 2)

| | |
|-----------------|-----------------|
| DIN VDE 0530 | Allemagne |
| BS5000 / BS4999 | Grande Bretagne |
| AS 1359 | Australie |
| NBNC 51 - 101 | Belgique |
| NEK - IEC 34 | Norvège |
| NF C 51 | France |
| OEVE M 10 | Autriche |
| SEV 3009 | Suisse |
| NEN 3173 | Pays Bas |
| SS 426 01 01 | Suède |



M2.3 Moteurs pour Etats-unis et Canada

CUS

Les moteurs BN et M sont disponibles en exécution NEMA Design C (pour les caractéristiques électriques), certifiés conformes aux normes CSA (Canadian Standard) C22.2 N°100 et UL (Underwriters Laboratory) UL 1004-1 avec une plaque signalétique indiquant chacun des symboles ci-dessous, dans ce cas, spécifier l'option CUS.



Les tensions des réseaux de distribution américains ainsi que les tensions nominales à spécifier pour le moteur sont indiquées dans le tableau suivant :

(F 3)

| Fréquence | Tension de réseau | V _{mot} |
|-----------|-------------------|------------------|
| 60 Hz | 208 V | 200 V |
| | 240 V | 230 V |
| | 480 V | 460 V |
| | 600 V | 575 V |

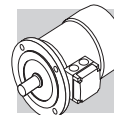
Les moteurs avec connexion YY/Y (ex. 230/460-60; 220/440-60) présentent, en standard, une plaque à bornes avec 9 bornes. Pour les mêmes exécutions, et aussi pour l'alimentation 575V-60Hz, la puissance de plaque correspond à celle normalisée à 50Hz.

Pour les moteurs frein avec frein en c.c. type BN/m_FD et BN/M_AFD, l'alimentation du redresseur provient de la boîte à bornes moteur avec une tension 230V c.a. monophasée. Pour les moteurs frein l'**alimentation du frein** est la suivante :

(F 4)

| BN_FD ; BN_AFD M_FD ; M_AFD | BN_FA ; BN_BA M_FA | Spécifier |
|---|------------------------------------|-----------|
| Depuis boîte à bornes moteur 1~230V c.a. | Alimentation séparée 230V Δ - 60Hz | 230SA |
| | Alimentation séparée 460V Y - 60Hz | 460SA |

L'option CUS n'est pas applicable aux moteurs dotés d'une servo-ventilation ou aux moteurs équipés du frein AFD.



M2.4 China Compulsory Certification

CCC

Les moteurs électriques destinés à être commercialisés dans la République Populaire de Chine entrent dans le cadre du système de certification CCC (China Compulsory Certification). Les moteurs BN ayant un couple nominal pouvant atteindre 7 Nm sont disponibles avec une certification CCC et une plaque spéciale sur laquelle figure la marque illustrée ci-dessous :



L'option CCC n'est pas applicable aux moteurs équipés du frein AFD.

M2.5 Directives 2006/95/CE (LVD) et 2004/108/CE (EMC)

Les moteurs de la série BN et M sont conformes aux conditions requises par les Directives 2006/95/CE (Directive Basse Tension) et 2004/108/CE (Directive Compatibilité Electromagnétique), et le marquage CE est indiqué sur la plaque signalétique.

En ce qui concerne la Directive EMC, la fabrication répond aux Normes CEI EN 60034-1, EN 61000-6-2, EN 61000-6-4.

Les moteurs avec frein FD et AFD, s'ils sont équipés du filtre capacitif approprié en entrée du redresseur (option **CF**), entrent dans les limites d'émission prévues par la Norme EN 61000-6-3:2007 "Compatibilité électromagnétique - Norme Générique sur l'émission - Partie 6-3 : Milieux résidentiels, commerciaux et de l'industrie légère".

Les moteurs répondent aussi aux prescriptions de la Norme CEI EN 60204-1 "Equipement électrique des machines".

Le fabricant ou le monteur de la machine qui comprend les moteurs comme composant est responsable et doit se charger de garantir la sécurité et la conformité aux directives du produit final.

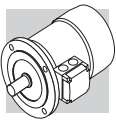
M2.6 Tolérances

Selon les Normes, les tolérances indiquées dans le tableau ci-dessous sont admises sur les tailles garanties.

(F 5)

| | |
|--|------------------------|
| -0.15 (1 - η) P \leq 50kW | Rendement |
| -(1 - $\cos\phi$)/6 min 0.02 max 0.07 | Facteur de puissance |
| $\pm 20\%$ * | Glissement |
| +20% | Courant à rotor bloqué |
| -15% +25% | Couple à rotor bloqué |
| -10% | Couple max |

* $\pm 30\%$ pour moteurs avec Pn < 1 kW



M3 CARACTERISTIQUES MECANQUES

M3.1 Formes de construction

Les moteurs série BN sont prévus dans les formes de construction indiquées sur le tableau (F6) selon les normes CEI EN 60034-14.

Les formes de construction sont les suivantes :

IM B5 (base)

IM V1, IM V3 (dérivées)

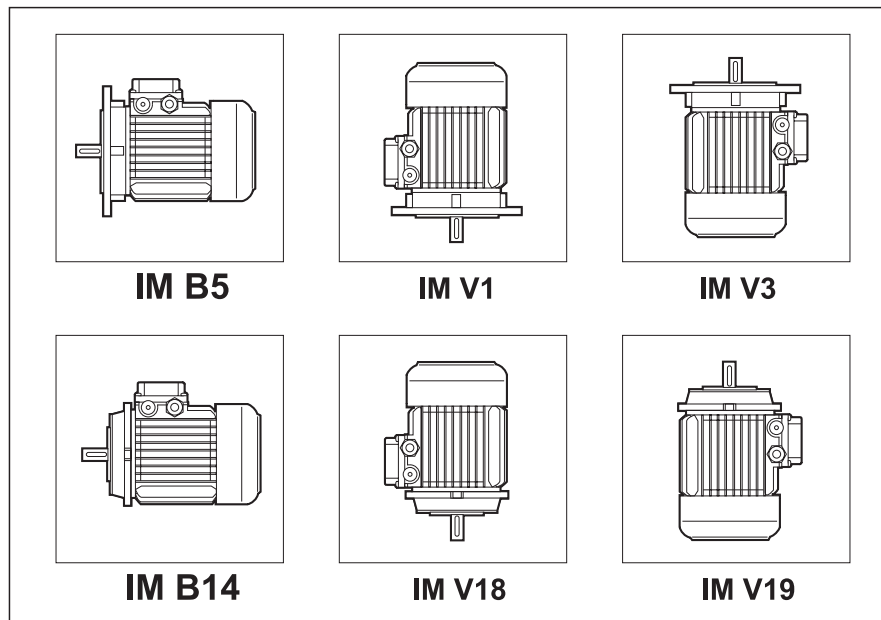
IMB14 (base)

IM V18, IMV19 (dérivées)

Les moteurs en forme de construction IM B5 peuvent être installés dans les positions IM V1 et IM V3 ; les moteurs en forme de construction IM B14 peuvent être installés dans les positions IM V18 et IM V19.

Dans ces cas, la forme de construction base IM B5 ou IM B14 sera indiquée sur la plaque du moteur. Dans les formes de construction où le moteur présente une position verticale avec arbre vers le bas, nous conseillons de demander l'exécution avec capot de protection contre la pluie (à prévoir toujours dans le cas de moteurs freins). Cette exécution, prévue dans les options, doit être expressément demandée en phase de commande étant donné qu'elle n'est pas prévue dans la version de base

(F 6)



Les moteurs avec forme à bride peuvent être fournis avec des tailles d'accouplement réduites, comme indiqué dans le tableau (F7) - exécutions **B5R, B14R**.



(F 7)

| | | | | | | |
|----------------------------|--------------|--------------|--------------|---------------|---------------|---------------|
| | | | | | | |
| | BN 71 | BN 80 | BN 90 | BN 100 | BN 112 | BN 132 |
| | DxE - Ø | | | | | |
| B5R ⁽¹⁾ | 11x23 - 140 | 14x30 - 160 | 19x40 - 200 | 24x50 - 200 | 24x50 - 200 | 28x60 - 250 |
| B14R ⁽²⁾ | 11x23 - 90 | 14x30 - 105 | 19x40 - 120 | 24x50 - 140 | — | — |

(1) bride avec orifices passants

(2) bride avec orifices filetés

M3.2 Degré de protection

IP..

Le tableau ci-dessous résume la disponibilité des différents degrés de protection.

Indépendamment du degré de protection spécifié, en cas d'installation en plein air, les moteurs doivent être protégés des rayons directs du soleil et, en cas d'installation avec l'arbre dirigé vers le bas, il est nécessaire de spécifier ultérieurement le capot de protection contre la pénétration de l'eau et des corps solides (option **RC**).

(F 8)

| | | IP 54 | IP 55 | IP 56 |
|---|--|----------|----------|-------|
| BN | M | ⊘ | standard | |
| BN_FD BN_AFD BN_FA | M_FD M_AFD M_FA | standard | | ⊘ |
| BN_BA | - | ⊘ | standard | ⊘ |

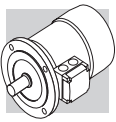
M3.3 Ventilation

Les moteurs sont refroidis à l'aide d'une ventilation extérieure (IC 411 selon CEI EN 60034-6) et sont dotés d'un ventilateur à ailettes en plastique qui fonctionne dans les deux sens de rotation.

L'installation doit assurer une distance minimum entre le capot de protection du ventilateur et la paroi afin de permettre une bonne circulation de l'air et rendre plus aisé l'entretien du moteur et si prévu, du frein.

Sur demande, il est possible de prévoir une ventilation forcée indépendante (option U1).

Cette solution permet d'augmenter le facteur d'utilisation du moteur en cas d'alimentation, via un variateur de fréquence, et pour un fonctionnement à faible vitesse.



M3.4 Sens de rotation

Un fonctionnement dans les deux sens de rotation est possible. Avec raccordement des bornes U1, V1, W1 aux phases de ligne L1, L2, L3, on a la rotation dans le sens des aiguilles d'une montre vue du côté liaison alors que le sens inverse s'obtient en intervertissant deux phases entre elles.

M3.5 Niveau de bruit

Les valeurs relevées selon la méthode prévue par les normes ISO 1680 sont situées sous les niveaux maximums prévus par les normes CEI EN 60034-9.

M3.6 Vibrations et équilibrage

Tous les rotors sont équilibrés avec une demi clavette et entrent dans les limites d'intensité de vibration prévues par les Normes CEI EN 60034-14.

En cas d'exigences particulières concernant le niveau de bruit, sur demande, il est possible de réaliser une exécution anti-vibrante, de degré réduit (B).

Le tableau ci-dessous indique les valeurs de la vitesse efficace de vibration pour un équilibrage standard (A) et améliorée (B).

(F 9)

| Degré de vibration | Vitesse de rotation n [min ⁻¹] | Limites de la vitesse de vibration [mm/s] BN 56 ≤ H ≤ BN 200 M05 ≤ H ≤ M5 |
|--------------------|---|--|
| A | 600 < n < 3600 | 1.6 |
| B | 600 < n < 3600 | 0.70 |

Les valeurs se réfèrent à des mesures avec moteur librement suspendu et fonctionnement à vide.

M3.7 Bornier moteur

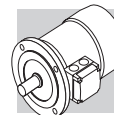
Le bornier principal prévoit six bornes pour raccordement avec cosses. Dans le boîtier se trouve une borne pour le conducteur de terre.

Les dimensions des axes de fixation sont reportées dans le tableau ci-dessous.



Pour l'alimentation du frein, voir par. M6, M7 (frein FD et AFD), M8, M9 (frein FA et BA).

Dans le cas de moteurs freins, le redresseur pour l'alimentation du frein est fixé à l'intérieur du boîtier et est doté de bornes de raccordement.

Effectuer les connexions selon les schémas indiqués à l'intérieur du bornier, ou dans les manuels d'utilisation.





(F 10)

|  |  | Nbre bornes | Filetage bornes | Section max du conducteur mm ² |
|---|---|-------------|-----------------|--|
| BN 56...BN 71 | M05, M1 | 6 | M4 | 2.5 |
| BN 80, BN 90 | M2 | 6 | M4 | 2.5 |
| BN 100...BN 112 | M3 | 6 | M5 | 6 |
| BN 132...BN 160MR | M4 | 6 | M5 | 6 |
| BN 160M...BN 180M | M5 | 6 | M6 | 16 |
| BN 180L...BN 200L | — | 6 | M8 | 25 |

M3.8 Entrée de câbles

Dans le respect de la Norme EN 50262, les orifices d'entrée de câbles dans les boîtes à bornes présentent des filetages métriques de la taille indiquée dans le tableau ci-dessous.

(F 11)

|  |  | Entrée câbles | Diam. maxi câble [mm] |
|---|---|---------------|--------------------------|
| BN 63 | M05 | 2 x M20 x 1.5 | 13 |
| BN 71 | M1 | 2 x M25 x 1.5 | 17 |
| BN 80 - BN 90 | M2 | 2 x M25 x 1.5 | 17 |
| BN 100 | M3 | 2 x M32 x 1.5 | 21 |
| | | 2 x M25 x 1.5 | 17 |
| BN 112 | — | 2 x M32 x 1.5 | 17 |
| | | 4 x M25 x 1.5 | |
| BN 132...BN 160MR | M4 | 4 x M32 x 1.5 | 21 |
| BN 160M...BN 200L | M5 | 2 x M40 x 1.5 | 29 |

M3.9 Roulements

Les roulements prévus sont du type radial à billes avec lubrification permanente.


Les types utilisés sont indiqués dans les tableaux ci-dessous.

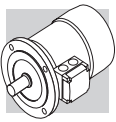
La durée de vie nominale de fatigue L_{10h} des roulements en l'absence de charges extérieures appliquées est supérieure à 40.000 heures calculée selon ISO 281.

DE = sortie arbre


NDE = côté ventilateur

(F 12)

|  | DE | | NDE | |
|---|-----------------------------|------------|--------------------------|--|
| | M, M_FD, M_AFD, M_FA | M | M_FD, M_AFD, M_FA | |
| M05 | 6004 2Z C3 | 6201 2Z C3 | 6201 2RS C3 | |
| M1 | 6004 2Z C3 | 6202 2Z C3 | 6202 2RS C3 | |
| M2 | 6007 2Z C3 | 6204 2Z C3 | 6204 2RS C3 | |
| M3 | 6207 2Z C3 | 6206 2Z C3 | 6206 2RS C3 | |
| M4 | 6309 2Z C3 | 6308 2Z C3 | 6308 2RS C3 | |
| M5 | 6309 2Z C3 | 6309 2Z C3 | 6309 2RS C3 | |



(F 13)

|  | DE | NDE | |
|---|------------------------------------|--------------|-------------------------|
| | BN, BN_FD, BN_AFD, BN_FA, BN_BA | BN, BN_BA | BN_FD, BN_AFD, BN_FA |
| BN 56 | | 6201 2Z C3 | – |
| BN 63 | 6201 2Z C3 | 6201 2Z C3 | 6201 2RS C3 |
| BN 71 | 6202 2Z C3 | 6202 2Z C3 | 6202 2RS C3 |
| BN 80 | 6204 2Z C3 | 6204 2Z C3 | 6204 2RS C3 |
| BN 90 | 6205 2Z C3 | 6205 2Z C3 | 6305 2RS C3 |
| BN 100 | 6206 2Z C3 | 6206 2Z C3 | 6206 2RS C3 |
| BN 112 | 6306 2Z C3 | 6306 2Z C3 | 6306 2RS C3 |
| BN 132 | 6308 2Z C3 | 6308 2Z C3 | 6308 2RS C3 |
| BN 160MR | 6309 2Z C3 | 6308 2Z C3 | 6308 2RS C3 |
| BN 160M/L | 6309 2Z C3 | 6309 2Z C3 | 6309 2RS C3 |
| BN 180M | 6310 2Z C3 | 6309 2Z C3 | 6309 2RS C3 |
| BN 180L | 6310 2Z C3 | 6310 2Z C3 | 6310 2RS C3 |
| BN 200L | 6312 2Z C3 | 6310 2Z C3 | 6310 2RS C3 |

M4 CARACTERISTIQUES ELECTRIQUES

M4.1 Tension

Les moteurs à polarité unique sont prévus dans l'exécution normale pour tension 230V Δ / 400V Y, 50 Hz avec tolérance de tension $\pm 10\%$ (sauf les types M3LC4 et M3LC6).

Outre la tension nominale, les plages de fonctionnement permises sont indiquées sur la plaque signalétique, à savoir :

220-240V Δ

380-415V Y/50 Hz.

Selon les normes CEI EN 60034-1 les moteurs peuvent fonctionner aux tensions indiquées ci-dessous avec une tolérance de $\pm 5\%$.

Pour un fonctionnement à la limite de tolérance, la température peut dépasser les 10K, la limite prévue de la classe d'isolation choisie.

A l'exception des moteurs frein en c.c., type BN/M_FD et BN/M_AFD sur la plaque marque sont de plus indiquées les valeurs correspondantes au fonctionnement en 60 Hz (ex.460Y, 60 Hz) et la relative plage de tension : 440 - 480VY, 60 Hz.

En ce qui concerne les moteurs frein avec frein de type FD et AFD, les tensions standard sont les suivantes :



220V - 240V Δ - 50 Hz

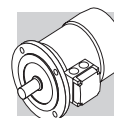
380V - 415V Y - 50 Hz

avec tension d'alimentation du frein 230V $\pm 10\%$.

La tableau ci-dessous indique les tensions prévues pour les moteurs.

(F 14)



|  |  | BN M | BN_FD ; BN_AFD M_FD ; M_AFD | | BN_FA ; BN_BA M_FA | | Exécution |
|---|---|--------------------------------|--------------------------------|-----------------------|--|--|--------------------------------------|
| | | $V_{mot} \pm 10\%$ 3 ~ | $V_{mot} \pm 10\%$ 3 ~ | $V_B \pm 10\%$ 1 ~ | $V_{mot} \pm 10\%$ 3 ~ | $V_B \pm 10\%$ 3 ~ | |
| BN 56 - BN 132 | M05...M4 | 230/400 - 50 Hz 460 - 60 Hz | 230/400V Δ /Y- 50 Hz | 230V | 230/400V Δ /Y- 50 Hz 460V Y - 60Hz | 230/400V Δ /Y- 50 Hz 460V Y - 60Hz | Standard |
| BN 100 - BN 132 | M3 - M4 | 400/690 - 50 Hz 460 - 60Hz | 400/690V Δ /Y- 50 Hz | 400V | 400/690V Δ /Y- 50 Hz 460V Y - 60Hz | 400/690V Δ /Y- 50 Hz 460V Y - 60Hz | Sur demande, sans majoration de prix |



Tous les moteurs à deux vitesses, les types 400V/50Hz, sont prévus pour une tension nominale standard de 400V ; tolérances applicables selon CEI EN 60034-1.

Dans le tableau ci-dessous sont indiqués les différents types de connexion prévus pour les moteurs.

(F 15)





|  |  | Pôles | Connexion du bobinage |
|---|---|----------------|---------------------------|
| BN 56...BN 200 | M05...M5 | 2, 4, 6 | Δ / Y |
| | | 2/4 | Δ / YY (Dahlander) |
| | | 2/6, 2/8, 2/12 | Y / Y (Deux bobinages) |

M4.2 Fréquence

Les moteurs à une vitesse en exécution standard reportent sur la plaque marque en plus des tensions du fonctionnement à 50 Hz, la plage de tension 440 - 480V 60 Hz (moteurs freins avec frein FD et AFD exclus) avec puissance augmentée de 20% env.

La puissance sur la plaque marque des moteurs à 60 Hz correspond à celle indiquée au tableau suivant :

(F 16)

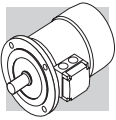
|  |  | 2P | 4P | 6P |  |  | 2P | 4P | 6P |
|---|---|------------|------|------|---|---|------------|------|------|
| | | P_n [kW] | | | | | P_n [kW] | | |
| BN 56A | – | – | 0.06 | – | BN 112M | M3LB | 4.7 | 4.7 | 2.5 |
| BN 56B | M0B | – | 0.10 | – | | M3LC | – | 4.7 | 2.5 |
| BN 63A | M05A | 0.21 | 0.14 | 0.10 | BN 132S | M4SA | – | 6.5 | 3.5 |
| BN 63B | M05B | 0.30 | 0.21 | 0.14 | BN 132SA | M4SA | 6.3 | – | – |
| BN 71A | M05C | 0.45 | 0.30 | 0.21 | BN 132SB | M4SB | 8.7 | – | – |
| BN 71B | M1SD | 0.65 | 0.45 | 0.30 | BN 132M | M4LA | 11 | – | – |
| BN 80A | M1LA | 0.90 | 0.65 | 0.45 | BN 132MA | M4LA | – | 8.7 | 4.6 |
| BN 80B | M2SA | 1.30 | 0.90 | 0.65 | BN 132MB | M4LB | – | 11 | 6.5 |
| BN 90S | M2SB | – | 1.30 | 0.90 | BN 160MR | M4LC | 12.5 | 12.5 | – |
| BN 90SA | M2SB | 1.8 | – | – | BN 160MB | M5SB | 17.5 | – | – |
| BN 90L | M3SA | 2.5 | – | 1.3 | BN 160M | M5SA | – | – | 8.6 |
| BN 90LA | M3SA | – | 1.8 | – | BN 160L | M5S | 21.5 | 17.5 | 12.6 |
| BN 100L | M3LA | 3.5 | – | – | BN 180M | M5LA | 24.5 | 21.5 | – |
| BN 100LA | M3LA | – | 2.5 | 1.8 | BN 180L | – | – | 25.3 | 17.5 |
| BN 100LB | M3LB | 4.7 | 3.5 | 2.2 | BN 200L | – | 34 | 34 | 22 |

Pour les moteurs à deux vitesses avec alimentation 60 Hz l'augmentation de puissance prévue par rapport aux valeurs indiquées dans les tableaux techniques, sera de 15%.

Si la puissance requise à 60 Hz correspond à la puissance normalisée à 50 Hz on devra indiquer l'option PN.

Les moteurs bobinés pour fréquence 50 Hz peuvent être utilisés sur réseau à 60 Hz selon les indications du tableau suivant.

Les freins, si présents, devront toujours être alimentés avec la tension V_b rapportée sur la plaque.



(F 17)

| 50 Hz | 60 Hz | | | |
|-------------|-------------|------------------------|---|--------------------------------|
| V - 50 Hz | V - 60 Hz | P _n - 60 Hz | M _n , M _a /M _n - 60 Hz | n [min ⁻¹] - 60 Hz |
| 230/400 Δ/Y | 220 - 240 Δ | 1 | 0.83 | 1.2 |
| | 380 - 415 Y | | | |
| 400/690 Δ/Y | 380 - 415 Δ | | | |
| 230/400 Δ/Y | 265 - 280 Δ | 1.15 | 1 | 1.2 |
| | 440 - 480 Y | | | |
| 400/690 Δ/Y | 440 - 480 Δ | | | |

M4.3 Puissance nominale

Les tableaux fonctionnels du catalogue présentent les caractéristiques techniques à 50 Hz dans des conditions ambiantes standard selon les normes CEI EN 60034-1 (température 40°C et altitude <1000 m).

Les moteurs peuvent être employés à des températures comprises entre 40°C et 60°C en appliquant les déclassements de puissance indiqués dans les tableaux suivants.

(F 18)

| Température ambiante (°C) | 40° | 45° | 50° | 55° | 60° |
|--|------|-----|-----|-----|-----|
| Puissance admissible en % de la puissance nominale | 100% | 95% | 90% | 85% | 80% |

Si un déclassement du moteur supérieur à 15% est requis, on devra contacter notre Service Technique.

M4.4 Classes d'isolation

CL F

De série, les moteurs fabriqués par Bonfiglioli utilisent des matériaux isolants (fil émaillé, isolants, résines d'imprégnation) en classe **F**.

CL H

Sur demande, la classe d'isolation **H** peut être spécifiée.

En général, pour les moteurs en exécution standard, l'échauffement de l'enroulement du stator se situe dans la limite de 80 K, correspondant à un échauffement de classe B.

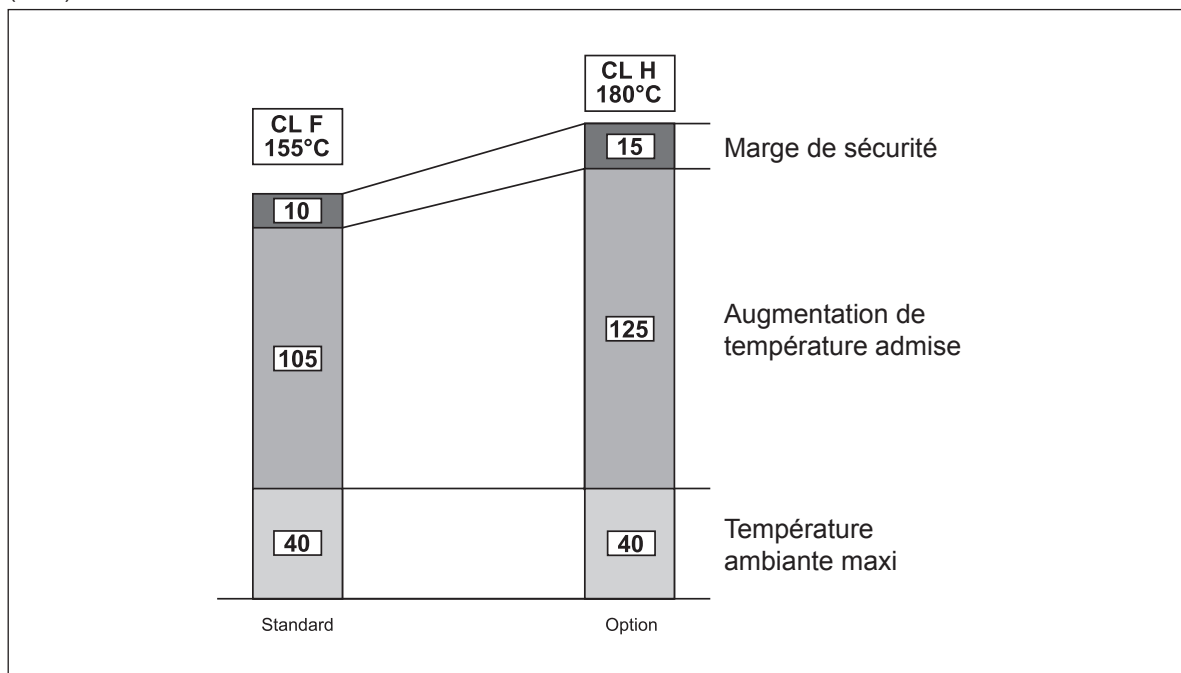
Le choix soigné des composants du système d'isolation permet d'utiliser également les moteurs dans des climats tropicaux et en présence de vibrations normales.

Pour des applications en présence de substances chimiques agressives, ou d'humidité élevée, il est conseillé de contacter le Service Technique Bonfiglioli pour sélectionner le produit le plus adapté.

Non disponible pour les moteurs conformes aux normes CSA et UL (option CUS).



(F 19)



M4.5 Type de service

Sauf indication contraire, la puissance des moteurs indiquée dans le catalogue se réfère au service continu type S1. Pour les moteurs utilisés dans des conditions différentes de S1, il est nécessaire d'identifier le type de service en se référant aux Normes CEI EN 60034-1. Plus particulièrement, pour les types de service S2 et S3 il est possible d'obtenir une majoration de la puissance par rapport à celle prévue pour le service continu, en appliquant les coefficients indiqués dans le tableau suivant, valable pour les moteurs à simple polarité.

En alternative au service continu S1, en phase de configuration du produit, il est possible de sélectionner une des valeurs suivantes : S2, S3 ou S9 ; la plaque du moteur sera renseignée avec une puissance supérieure, conformément au type de service, aux données électriques dédiées et au type de service, respectivement S2-30 min, S3-70 % ou S9.

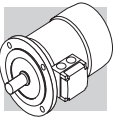
Pour plus de détails, contacter le service technique Bonfiglioli.

En ce qui concerne les majorations applicables aux moteurs à double polarité, il est préférable de contacter le Service Technique Bonfiglioli.

(F 20)

| | Service | | | | | | S4 - S9 |
|-------|----------------------|------|------|-------------------------------|------|-----|----------------|
| | S2 | | | S3 * | | | |
| | Durée du cycle (min) | | | Rapport d'intermittence (I) | | | |
| | 10 | 20 | 60 | 25% | 40% | 60% | Nous contacter |
| f_m | 1.35 | 1.15 | 1.05 | 1.25 | 1.15 | 1.1 | |

* La durée du cycle devra être inférieure ou égale à 10 minutes. Si supérieure, contacter notre Service Technique.



M4.5.1 Rapport d'intermittence:

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (23)$$

t_f = temps de fonctionnement à charge constante

t_r = temps de repos

M4.5.2 Service de durée limitée S2

Caractérisé par un fonctionnement à charge constante pour une période de temps limitée, inférieure à celle nécessaire pour atteindre l'équilibre thermique, suivie par une période de repos de durée suffisante pour rétablir, dans le moteur, la température ambiante.

M4.5.3 Service intermittent périodique S3

Caractérisé par une séquence de cycles de fonctionnement identiques, comprenant chacun une période de fonctionnement à charge constante et une période de repos.

Dans ce service, le courant de démarrage n'influence pas l'excès de température de façon significative.

M4.6 Fonctionnement avec alimentation par variateur de vitesse

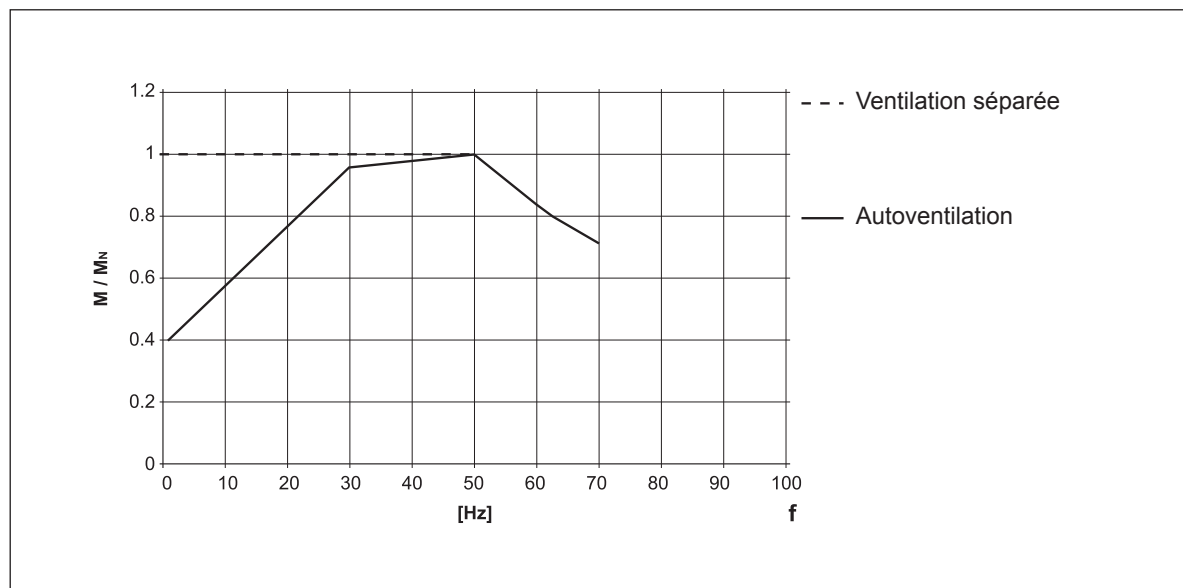
Les moteurs électriques de la série BN et M peuvent être utilisés avec alimentation par variateur PWM, et tension nominale en entrée du convertisseur jusqu'à 500V. Le système adopté sur les moteurs de série prévoit l'isolation de phase avec des séparateurs, l'utilisation de fil émaillé niveau 2 et résines d'imprégnation de classe H (limite de maintien à l'impulsion de tension 1600V pic-pic et front de montée $t_s > 0.1\mu s$ aux bornes moteur). Les caractéristiques typiques couple/vitesse en service S1 pour moteur avec fréquence de base $f_b = 50$ Hz sont indiquées dans le tab. (F30).

Pour des fréquences de fonctionnement inférieures à environ 30 Hz, à cause de la diminution de la ventilation, les moteurs standards autoventilés (IC411) doivent être opportunément déclassés au niveau du couple ou, en alternative, doivent être équipés d'un servoventilateur indépendant.

Pour des fréquences supérieures à la fréquence de base, une fois la valeur maximale de tension de sortie du variateur atteinte, le moteur fonctionne dans une plage de fonctionnement à puissance constante, avec un couple à l'arbre qui diminue dans le rapport (f/f_b) . Dans la mesure où le couple maximal du moteur diminue avec $(f/f_b)^2$, la marge de surcharge admise doit être progressivement réduite.





(F 21)



En cas de fonctionnement au-delà de la fréquence nominale, la vitesse limite mécanique des moteurs est indiquée dans le tableau (F22) :

(F 22)

| | | n [min ⁻¹] | | |
|---|---|------------------------|------|------|
| | | 2p | 4p | 6p |
|  |  | | | |
| ≤ BN 112 | M05...M3 | 5200 | 4000 | 3000 |
| BN 132...BN 200L | M4, M5 | 4500 | 4000 | 3000 |

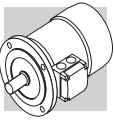
A des vitesses supérieures à la vitesse nominale, les moteurs présentent plus de vibrations mécaniques et de bruit de ventilation ; pour ces applications, il est conseillé d'effectuer un équilibrage du rotor en niveau B et de monter éventuellement un servoventilateur indépendant.

Le servoventilateur et, si présent, le frein électromagnétique doivent toujours être alimentés directement par le réseau.

M4.7 Fréquence maximum de démarrage Z

Dans les tableaux des caractéristiques techniques des moteurs se trouve la fréquence maximum d'insertion à vide Z_0 avec intermittence $I = 50\%$ référée à la version frein. Cette valeur définit un nombre maximum de démarrages horaires à vide que le moteur peut supporter sans dépasser la température maximum admise par la classe d'isolation F.

Dans le cas pratique d'un moteur accouplé à une charge extérieure avec puissance absorbée P_r , masse inertielle J_c et couple résistant moyen pendant le démarrage M_L , le nombre de démarrages admissible peut se calculer de façon approximative avec la formule suivante :

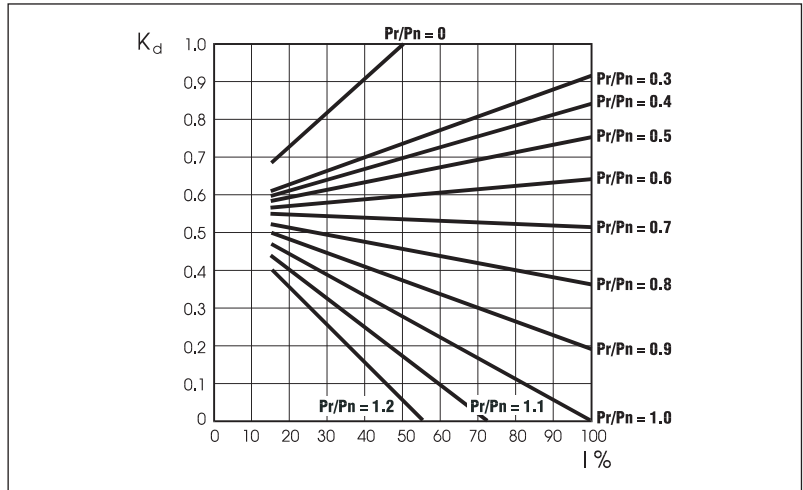


$$Z = \frac{Z_0 \cdot K_c \cdot K_d}{K_J} \quad (24)$$

où:

| | |
|-------------------------------|---|
| $K_J = \frac{J_m + J_c}{J_m}$ | facteur d'inertie |
| $K_c = \frac{M_a - M_L}{M_a}$ | facteur de couple |
| $K_d =$ | facteur de charge, voir le tableau suivant |

(F 23)



Avec le nombre de démarrages ainsi obtenu, il faudra ensuite vérifier que le travail maximum de freinage soit compatible avec la capacité thermique du frein W_{max} indiquée dans le table (F30).



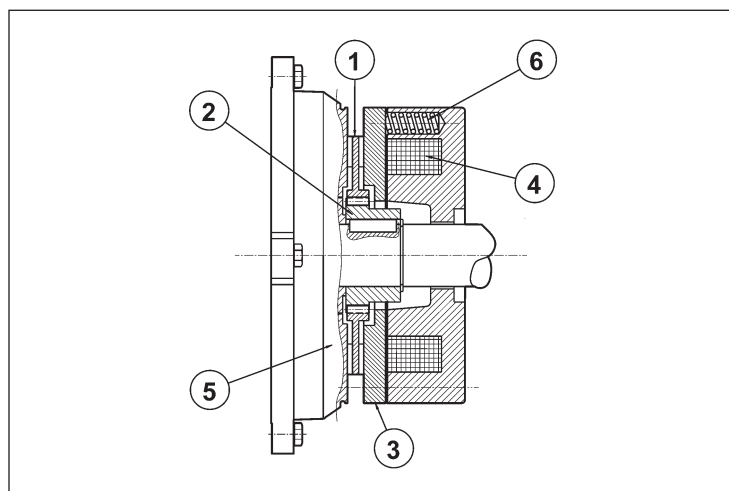
M5 MOTEURS FREIN ASYNCHRONES

M5.1 Fonctionnement

L'exécution avec frein prévoit l'utilisation de freins à pression de ressorts alimentés en c.c. (type FD, AFD) ou en c.a. (type FA, BA).

Tous les freins fonctionnent selon le principe de sécurité, c'est-à-dire qu'ils interviennent suite à la pression exercée par les ressorts, en cas de coupure d'alimentation.

(F 24)



Légende:

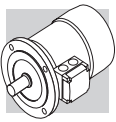
- ① disque
- ② moyeu d'entraînement
- ③ disque de freinage
- ④ bobine de frein
- ⑤ flasque-frein
- ⑥ ressort de frein

En cas de coupure de courant, l'armature mobile, poussée par les ressorts, bloque le disque de frein entre la surface de l'armature et le bouclier moteur en empêchant la rotation de l'arbre.

Lorsque la bobine est excitée, l'attraction magnétique exercée sur l'armature mobile annule la réaction élastique des ressorts et libère le disque de frein, et par conséquent l'arbre moteur, qui est solidaire.

M5.2 Caractéristiques générales

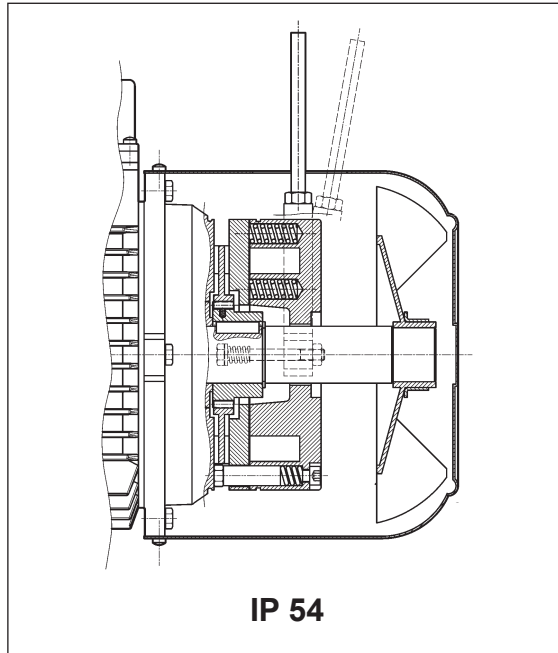
- Couples de freinage élevés (généralement $M_b \approx 2 M_n$) et réglables.
- Disque de frein avec structure en acier à double garniture de frottement (matière à faible usure, sans amiante).
- Empreinte hexagonale sur l'arbre moteur, côté ventilateur (N.D.E.), pour la rotation manuelle (non prévue en cas de présence des options PS, RC, TC, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6).
- Déblocage mécanique manuel (options **R** et **RM** pour BN/M_FD ; options **R** pour BN/M_FA).
- Déverrouillage mécanique manuel (option **R** pour BN/M_AFD).
- Traitement anticorrosion sur toute la surface du frein.
- Isolation en classe F



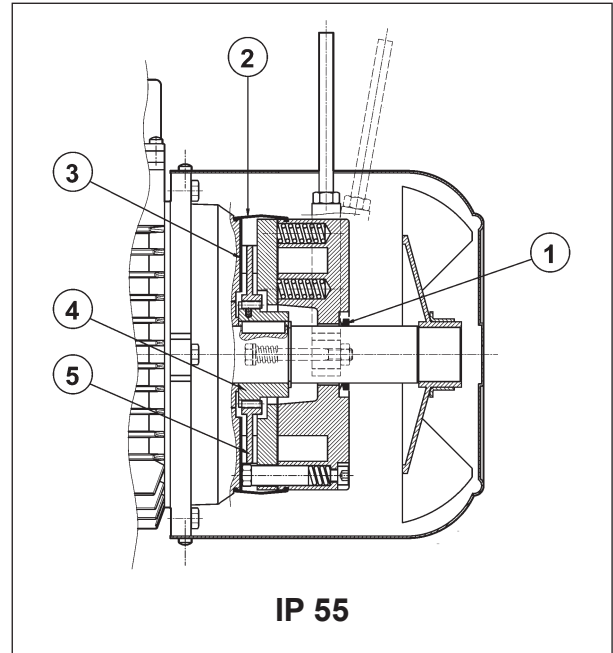
M6 MOTEURS FREIN EN C.C., TYPE BN_FD et M_FD

Tailles : BN 63 ... BN 200L / M05 ... M5

(F 25)



(F 26)



Frein électromagnétique avec bobine toroïdale en **courant continu**, fixé avec des vis au bouclier moteur ; les ressorts de précharge réalisent le positionnement axial de la bobine. Le disque frein coulisse de façon axiale sur le moyeu d'entraînement en acier calé sur l'arbre et doté d'un dispositif antivibration. Les moteurs sont fournis avec frein pré réglé en usine à la valeur de couple indiquée dans les tableaux des caractéristiques techniques ; le couple de freinage peut être réglé en modifiant le type et/ou le nombre de ressorts. Sur demande, les moteurs peuvent être équipés de levier pour le déblocage manuel avec retour automatique (**R**) ou avec maintien de la position de déblocage frein (**RM**) ; pour la position angulaire du levier de déblocage, voir description de la variante correspondante au paragraphe "SYSTEMES DE DEBLOCAGE FREIN".

Le frein FD garantit des performances dynamiques élevées et un faible niveau de bruit ; les caractéristiques d'intervention du frein en courant continu peuvent être optimisées en fonction de l'application en utilisant les différents types de dispositifs d'alimentation disponibles et/ou en réalisant un câblage approprié.

Pour des applications qui prévoient des levages et/ou des valeurs élevées de travail horaire à écouler, contacter le service technique commercial.

M6.1 Degré de protection

L'exécution standard prévoit le degré de protection IP54.

En option, le moteur frein type FD est fourni avec degré de protection **IP55**, en prévoyant les variantes de construction suivantes :



- ① abague V-ring positionnées sur l'arbre moteur N.D.E.
- ② bande de protection en caoutchouc
- ③ bague en acier inox interposée entre le bouclier moteur et le disque de frein
- ④ moyeu d'entraînement en acier inox
- ⑤ disque frein en acier inox

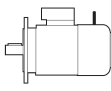

M6.2 Alimentation frein FD

L'alimentation de la bobine de frein en c.c. est prévue au moyen d'un redresseur approprié monté à l'intérieur de la boîte à bornes et déjà câblé à la bobine de frein.

De plus, pour les moteurs à simple polarité, le raccordement du redresseur au bornier moteur est prévu de série.

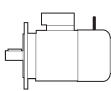


Indépendamment de la fréquence du réseau, la tension standard d'alimentation du redresseur V_B correspond à la valeur indiquée dans le tableau ci-dessous :

(F 27)

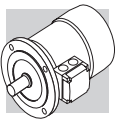
| 2, 4, 6 P | | | | 1 speed | |
|--|--|--------------------------------|----------------------------|--|--------------------------------|
|  |  | BN_FD / M_FD | | Alimentation frein depuis boîte à bornes | Alimentation séparée |
| | | V_{mot} $\pm 10\%$ 3 ~ | V_B $\pm 10\%$ 1 ~ | | |
| BN 63...BN 132 | M05...M4LB | 230/400 V – 50 Hz | 230 V | standard | spécifier V_B SA ou V_B SD |
| BN 160...BN 200 | M4LC...M5 | 400/690 V – 50 Hz | 400 V | standard | spécifier V_B SA ou V_B SD |

Pour les moteurs à double polarité, l'alimentation standard du frein dérive d'une ligne séparée avec tension d'entrée au redresseur V_B comme indiqué dans le tableau ci-dessous :

(F 28)

| 2/4, 2/6, 2/8, 2/12, 4/6, 4/8 P | | | | 2 speed | |
|---|---|--------------------------------|----------------------------|---|--------------------------------|
|  |  | BN_FD / M_FD | | Alimentation frein depuis boîte à bornes | Alimentation séparée |
| | | V_{mot} $\pm 10\%$ 3 ~ | V_B $\pm 10\%$ 1 ~ | | |
| BN 63...BN 132 | M05...M4LB | 400 V – 50 Hz | 230 V |  | spécifier V_B SA ou V_B SD |

Le redresseur est du type à diodes à demi-onde ($V_{c.c} \approx 0,45 \times V_{c.a.}$) et il est disponible dans les versions **NB**, **SB**, **NBR** et **SBR**, comme indiqué de façon détaillée dans le tableau suivant :



(F 29)

| | | frein | standard | Sur demande | | |
|-------------------|-----|--------|----------|-------------|--|--|
| BN 63 | M05 | FD 02 | | | | |
| BN 71 | M1 | FD 03 | | | | |
| | | FD 53 | | | | |
| BN 80 | M2 | FD 04 | | | | |
| BN 90S | — | FD 14 | | | | |
| BN 90L | — | FD 05 | | | | |
| BN 100 | M3 | FD 15 | | | | |
| — | | FD 55 | | | | |
| BN 112 | — | FD 06S | | | | |
| BN 132...160MR | M4 | FD 56 | | | | |
| BN 160L - BN 180M | M5 | FD 06 | | | | |
| BN 180L - NM 200L | — | FD 07 | | | | |

(*) $t_{2c} < t_{2r} < t_2$

Le redresseur **SB** à contrôle électronique de l'excitation réduit les temps de déblocage du frein en surexcitant l'électro-aimant durant les premiers instants d'enclenchement pour passer ensuite au fonctionnement normal à demi-onde une fois le frein désactivé.

L'utilisation du redresseur type **SB** doit toujours être prévue dans les cas suivants :

- nombre d'interventions horaires élevé
- temps de déblocage frein réduits
- sollicitations thermiques du frein élevées

Pour les applications nécessitant un déblocage rapide du frein, sur demande les redresseurs **NBR** ou **SBR** sont disponibles.

Ces redresseurs complètent les types **NB** et **SB**, en intégrant dans le circuit électronique un interrupteur statique qui intervient en désexcitant rapidement le frein en cas de coupure de tension.

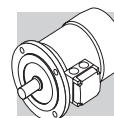
Cette solution permet de réduire les temps de déblocage du frein en évitant d'autres câblages et contacts extérieurs.

Pour une meilleure utilisation des redresseurs **NBR** et **SBR** l'alimentation séparée du frein est nécessaire.

Tensions disponibles : 230V ± 10%, 400V ± 10%, 50/60 Hz.

M6.3 Caractéristiques techniques freins FD

Le tableau suivant indique les caractéristiques techniques des freins en c.c. type FD.



(F 30)

| Frein | Couple de freinage M_b [Nm] | | | Déblocage | | Freinage | | W_{max} par freinage | | | W | P |
|--------|-------------------------------|-----|------|-----------|----------|----------|----------|------------------------|---------|----------|-----|-----|
| | Ressorts | | | t_1 | t_{1s} | t_2 | t_{2c} | [J] | | | | |
| | 6 | 4 | 2 | [ms] | [ms] | [ms] | [ms] | 10 s/h | 100 s/h | 1000 s/h | | |
| FD02 | – | 3.5 | 1.75 | 30 | 15 | 80 | 9 | 4500 | 1400 | 180 | 15 | 17 |
| FD03 | 5 | 3.5 | 1.75 | 50 | 20 | 100 | 12 | 7000 | 1900 | 230 | 25 | 24 |
| FD53 | 7.5 | 5 | 2.5 | 60 | 30 | 100 | 12 | | | | | |
| FD04 | 15 | 10 | 5 | 80 | 35 | 140 | 15 | 10000 | 3100 | 350 | 30 | 33 |
| FD14 | | | | | | | | | | | | |
| FD05 | 40 | 26 | 13 | 130 | 65 | 170 | 20 | 18000 | 4500 | 500 | 50 | 45 |
| FD15 | 40 | 26 | 13 | 130 | 65 | 170 | 20 | | | | | |
| FD55 | 55 | 37 | 18 | – | 65 | 170 | 20 | | | | | |
| FD06S | 60 | 40 | 20 | – | 80 | 220 | 25 | 20000 | 4800 | 550 | 70 | 55 |
| FD56 | – | 75 | 37 | – | 90 | 250 | 20 | 29000 | 7400 | 800 | 80 | 65 |
| FD06 | | 100 | 50 | | 100 | 250 | 20 | | | | | |
| FD07 | 150 | 100 | 50 | – | 120 | 200 | 25 | 40000 | 9300 | 1000 | 130 | 65 |
| FD08* | 250 | 200 | 170 | – | 140 | 350 | 30 | 60000 | 14000 | 1500 | 230 | 100 |
| FD09** | 400 | 300 | 200 | – | 200 | 450 | 40 | 70000 | 15000 | 1700 | 230 | 120 |

* valeurs de couple de freinage obtenues respectivement avec n° 9, 7, 6 ressorts

** valeurs de couple de freinage obtenues respectivement avec n° 12, 9, 6 ressorts

t_1 = temps de déblocage du frein avec dispositif d'alimentation à demi-onde
 t_{1s} = temps de déblocage du frein avec dispositif d'alimentation à contrôle électronique de l'excitation
 t_2 = retard de freinage avec interruption côté c.a. et alimentation séparée
 t_{2c} = retard de freinage avec interruption côté c.a. et c.c. – Les valeurs de t_1 , t_{1s} , t_2 , t_{2c} indiquées dans le tab. (F30) se réfèrent au frein étalonné au couple maximal, entrefer moyen et tension nominale
 W_{max} = énergie max. par freinage
 W = énergie de freinage entre deux réglages successifs de l'entrefer
 P_b = puissance absorbée par le frein à 20 °C
 M_b = couple de freinage statique ($\pm 15\%$)
s/h = démarrages par heure

L'usure des plaquettes de frottement dépend des conditions de fonctionnement (température, humidité, vitesse de glissement, pression spécifique) ; les valeurs d'usure doivent donc être considérées comme fournies à titre indicatif.

M6.4 Raccordements frein FD

Les moteurs standard à une vitesse sont fournis avec le raccordement du redresseur au bornier moteur déjà réalisé en usine. Pour les moteurs à 2 vitesses, et lorsqu'une alimentation séparée du frein est requise, prévoir le raccordement au redresseur conformément à la tension frein VB indiquée sur la plaque signalétique du moteur.

Etant donné la nature inductive de la charge, pour la commande du frein et l'interruption côté courant continu, il est nécessaire d'utiliser des contacts avec catégorie d'utilisation AC-3 selon la norme IEC 60947-4-1.

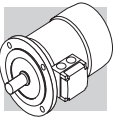


Tableau (F31) - Alimentation frein depuis bornes moteur et interruption côté c.a.

Temps d'arrêt t_2 retardé et fonction des constantes de temps du moteur.

A prévoir lorsque des démarrages/arrêts progressifs sont requis.

Tableau (F32) - Bobine de frein avec alimentation séparée et interrupteur côté c.a.

Temps d'arrêt normal et indépendant du moteur.

Les temps d'arrêts t_2 sont ceux indiqués dans le tableau (F30).

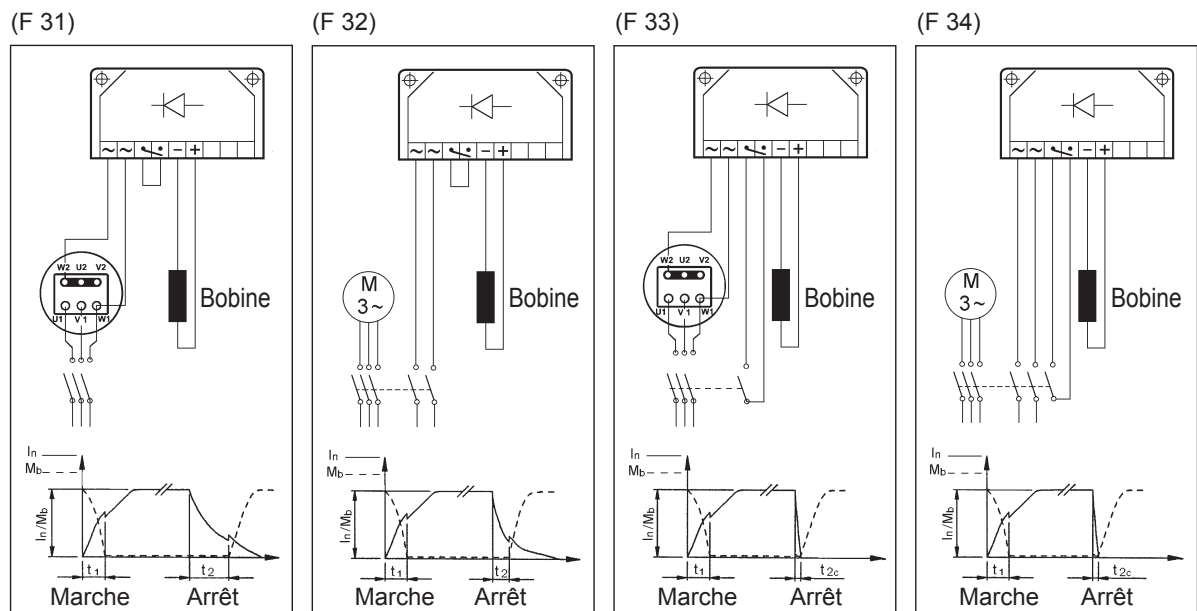
Tableau (F33) - Bobine de frein avec alimentation depuis les bornes moteur et interruption côté c.a. et c.c.

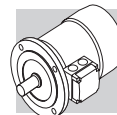
Arrêt rapide avec les temps d'intervention t_{2c} indiqués dans le tableau (F30).

Tableau (F34) - Bobine de frein avec alimentation séparée et interruption côté c.a. et c.c.

Temps d'arrêt réduit selon les valeurs t_{2c} indiquées dans le tableau (F30).

Les tableaux de (F31) à (F34) indiquent les schémas typiques de branchement pour une alimentation de 400 V, moteurs 230/400V raccordés en étoile et frein 230 V.

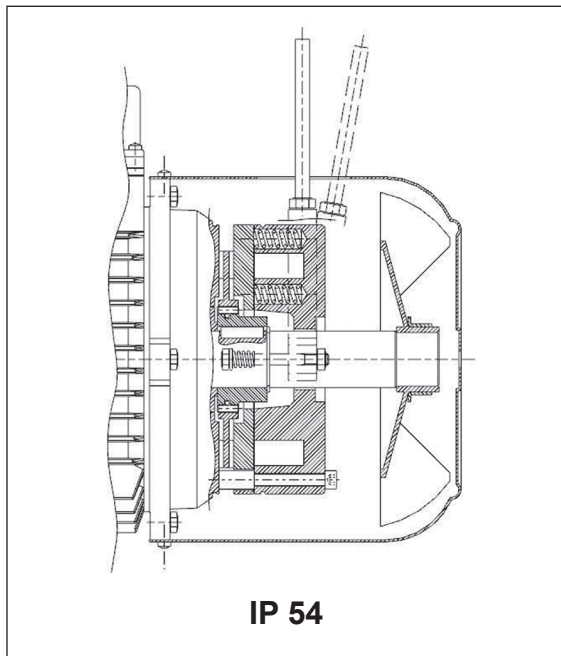




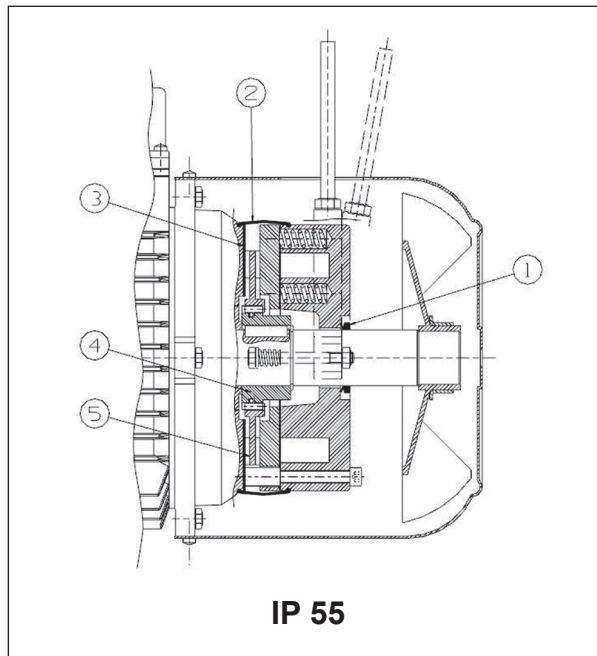
M7 MOTEURS FREIN EN C.C., TYPE BN_FD et M_AFD

Tailles : BN 63 ... BN 200L / M05 ... M5

(F 35)



(F 36)



Frein à entrefer fixe, sans entretien jusqu'à l'usure maximale admissible pour la plaquette de frottement. L'entrefer est préétabli et ne doit pas être réglé.

Frein électromagnétique avec bobine toroïdale en **courant continu**, fixé avec des vis au bouclier moteur.

Le disque de frein coulisse sur le moyeu d'entraînement en acier calé sur l'arbre et doté d'un dispositif anti-vibration. Les moteurs sont fournis avec frein pré réglé en usine à la valeur de couple indiquée dans les tableaux des caractéristiques techniques ; le couple de freinage peut être réglé en modifiant le type et/ou le nombre de ressorts. Sur demande, les moteurs peuvent être équipés de levier pour le déblocage manuel avec retour automatique (**R**) ; pour la position angulaire du levier de déblocage, voir description de la variante correspondante au paragraphe "SYSTEMES DE DEBLOCAGE FREIN".

Le frein AFD garantit des performances dynamiques élevées et un faible niveau de bruit ; les caractéristiques d'intervention du frein en courant continu peuvent être optimisées en fonction de l'application en utilisant les différents types de dispositifs d'alimentation disponibles et/ou en réalisant un câblage approprié.

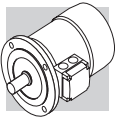
Le frein AFD est conseillé pour des applications dans lesquelles il est utilisé comme frein de stationnement.

Pour des applications qui prévoient des levages et/ou des valeurs élevées de travail horaire à écouler, contacter le service technique commercial.

M7.1 Degré de protection

L'exécution standard prévoit le degré de protection IP54.

En option, le moteur frein type AFD est fourni avec degré de protection **IP55**, en prévoyant les variantes de construction suivantes :



- ① abague V-ring positionnées sur l'arbre moteur N.D.E.
- ② bande de protection en caoutchouc
- ③ bague en acier inox interposée entre le bouclier moteur et le disque de frein
- ④ moyeu d'entraînement en acier inox
- ⑤ disque frein en acier inox

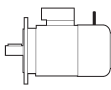

M7.2 Alimentation frein AFD

L'alimentation de la bobine de frein en c.c. est prévue au moyen d'un redresseur approprié monté à l'intérieur de la boîte à bornes et déjà câblé à la bobine de frein.

De plus, pour les moteurs à simple polarité, le raccordement du redresseur au bornier moteur est prévu de série.

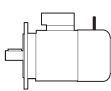


Indépendamment de la fréquence du réseau, la tension standard d'alimentation du redresseur V_B correspond à la valeur indiquée dans le tableau ci-dessous :

(F 37)

| 2, 4, 6 P | | | | 1 speed | |
|---|---|--------------------------------|----------------------------|--|--------------------------------|
|  |  | BN_AFD / M_AFD | | Alimentation frein depuis boîte à bornes | Alimentation séparée |
| | | V_{mot} $\pm 10\%$ 3 ~ | V_B $\pm 10\%$ 1 ~ | | |
| BN 63...BN 132 | M05...M4LB | 230/400 V – 50 Hz | 230 V | standard | spécifier V_B SA ou V_B SD |
| BN 160MR | M4LC | 400/690 V – 50 Hz | 400 V | standard | spécifier V_B SA ou V_B SD |

Pour les moteurs à double polarité, l'alimentation standard du frein dérive d'une ligne séparée avec tension d'entrée au redresseur V_B comme indiqué dans le tableau ci-dessous :

(F 38)

| 2/4, 2/6, 2/8, 2/12, 4/6, 4/8 P | | | | 2 speed | |
|---|---|--------------------------------|----------------------------|---|--------------------------------|
|  |  | BN_AFD / M_AFD | | Alimentation frein depuis boîte à bornes | Alimentation séparée |
| | | V_{mot} $\pm 10\%$ 3 ~ | V_B $\pm 10\%$ 1 ~ | | |
| BN 63...BN 132 | M05...M4LB | 400 V – 50 Hz | 230 V |  | spécifier V_B SA ou V_B SD |

Le redresseur est du type à diodes à demi-onde ($V_{c.c} \approx 0,45 \times V_{c.a.}$) et il est disponible dans les versions **SB** et **SBR**, comme indiqué de façon détaillée dans le tableau suivant :



(F 39)

| | | frein | | |
|-----------------------|------------|----------------|----------|-------------|
| | | | standard | Sur demande |
| | | | | |
| BN 63 | M05 | AFD 02 | | |
| BN 71 | M1 | AFD 03 | | |
| BN 80 | M2 | AFD 04 | | |
| BN 90S | — | AFD 14 | | |
| BN 90L | — | AFD 05 | | |
| BN 100 | M3 | AFD 15 | | |
| BN 112 | — | AFD 06S | | |
| BN 132...160MR | M4 | AFD 06 | | |
| | | AFD 07 | | |

(*) $t_{2c} < t_{2r} < t_2$

Le redresseur **SB** à contrôle électronique de l'excitation réduit les temps de déblocage du frein en surexcitant l'électro-aimant durant les premiers instants d'enclenchement pour passer ensuite au fonctionnement normal à demi-onde une fois le frein désactivé.

L'utilisation du redresseur type **SB** doit toujours être prévue dans les cas suivants :

- nombre d'interventions horaires élevé
- temps de déblocage frein réduits
- sollicitations thermiques du frein élevées

Pour les applications nécessitant un déblocage rapide du frein, sur demande les redresseurs **SBR** sont disponibles.

Ces redresseurs complètent les types **SB**, en intégrant dans le circuit électronique un interrupteur statique qui intervient en désexcitant rapidement le frein en cas de coupure de tension.

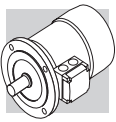
Cette solution permet de réduire les temps de déblocage du frein en évitant d'autres câblages et contacts extérieurs.

Pour une meilleure utilisation des redresseurs **SBR** l'alimentation séparée du frein est nécessaire.

Tensions disponibles : 230 Vca ± 10 %, 400 Vca ± 10 %, 50/60 Hz (avec alimentation) ; 100 Vcc ± 10 %, 180 Vcc ± 10 % (avec option SD).

M7.3 Caractéristiques techniques freins AFD

Le tableau suivant indique les caractéristiques techniques des freins en c.c. type AFD.



(F 40)

| Frein | Couple de freinage M_b [Nm] | | | Entrefer | | Déblocage t_{1s} [ms] | Freinage | | W_{max} par freinage [J] | | | W [MJ] | P [W] |
|----------------|-------------------------------|---------------|-----|-----------------------------|-----------|-------------------------------|---------------|------------------|---------------------------------|----------|------|-----------|----------|
| | Ressorts | | | t_{in} (± 0.1 mm) | t_{max} | | t_2 [ms] | t_{2c} [ms] | | | | | |
| | 6 | 4 | 2 | | | 10 s/h | | | 100 s/h | 1000 s/h | | | |
| AFD 02 | — | 3.5 | 1.8 | 0.3 | 0.7 | 20 | 110 | 10 | 4500 | 1400 | 160 | 40 | 15 |
| AFD 03 | 7.5 | 5 | 2.5 | 0.3 | 0.7 | 35 | 140 | 15 | 7000 | 1900 | 210 | 60 | 21 |
| AFD 04 | 15 | 10 | 5 | 0.4 | 0.8 | 55 | 180 | 15 | 11000 | 3100 | 350 | 75 | 27 |
| AFD 14 | | | | | | | | | | | | | |
| AFD 05 | 40 | 26 | 13 | 0.4 | 0.8 | 85 | 240 | 25 | 18000 | 4500 | 500 | 125 | 37 |
| AFD 15 | | | | | | | | | | | | | |
| AFD 06S | 60 | 40 | 20 | 0.45 | 0.9 | 110 | 280 | 30 | 25000 | 6300 | 700 | 175 | 47 |
| AFD 06 | 100 | 75(*) / 62(*) | 37 | 0.45 | 0.9 | 130 | 330 | 30 | 29000 | 7400 | 800 | 200 | 50 |
| AFD 07 | 150 | 100 | 50 | 0.45 | 0.95 | 170 | 350 | 30 | 40000 | 9300 | 1000 | 320 | 55 |

(*) en fonction du type de ressorts

t_{in} = entrefer avec le nouveau disque de frein

t_{max} = entrefer maximum pour lesquels il est nécessaire de remplacer le disque de frein

t_{1s} = temps de déblocage du frein avec dispositif d'alimentation à contrôle électronique de l'excitation

t_2 = retard de freinage avec interruption côté c.a. et alimentation séparée

t_{2c} = retard de freinage avec interruption côté c.a. et c.c. – Les valeurs de t_{1s} , t_2 , t_{2c} indiquées dans la table se réfèrent au frein étalonné au couple maximal, entrefer moyen et tension nominale

W_{max} = énergie max. par freinage

W = énergie de freinage dissipable avant le remplacement du disque de frein

P_b = puissance absorbée par le frein à 20 °C

M_b = couple de freinage statique ($\pm 15\%$)

s/h = démarrages par heure

L'usure des plaquettes de frottement dépend des conditions de fonctionnement (température, humidité, vitesse de glissement, pression spécifique) ; les valeurs d'usure doivent donc être considérées comme fournies à titre indicatif.

M7.4 Raccordements frein AFD

Les moteurs standard à une vitesse sont fournis avec le raccordement du redresseur au bornier moteur déjà réalisé en usine. Pour les moteurs à 2 vitesses, et lorsqu'une alimentation séparée du frein est requise, prévoir le raccordement au redresseur conformément à la tension frein VB indiquée sur la plaque signalétique du moteur.

Etant donné la nature inductive de la charge, pour la commande du frein et l'interruption côté courant continu, il est nécessaire d'utiliser des contacts avec catégorie d'utilisation AC-3 selon la norme IEC 60947-4-1.

Tableau (F41) - Alimentation frein depuis bornes moteur et interruption côté c.a.

Temps d'arrêt t_2 retardé et fonction des constantes de temps du moteur.

A prévoir lorsque des démarrages/arrêts progressifs sont requis.

Tableau (F42) - Bobine de frein avec alimentation séparée et interrupteur côté c.a.

Temps d'arrêt normal et indépendant du moteur.

Les temps d'arrêts t_2 sont ceux indiqués dans le tableau (F40).

Tableau (F43) - Bobine de frein avec alimentation depuis les bornes moteur et interruption côté c.a. et c.c.

Arrêt rapide avec les temps d'intervention t_{2c} indiqués dans le tableau (F40).

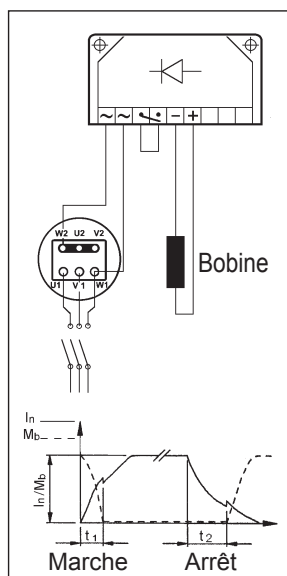
Tableau (F44) - Bobine de frein avec alimentation séparée et interruption côté c.a. et c.c.

Temps d'arrêt réduit selon les valeurs t_{2c} indiquées dans le tableau (F40).

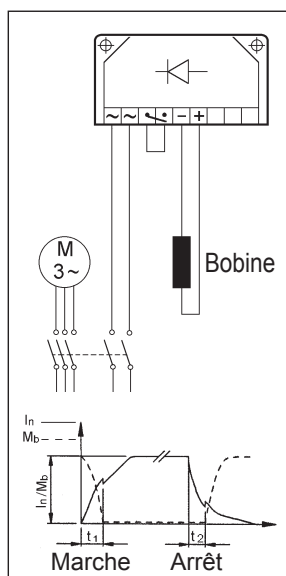


Les tableaux de (F41) à (F44) indiquent les schémas typiques de branchement pour une alimentation de 400 V, moteurs 230/400V raccordés en étoile et frein 230 V.

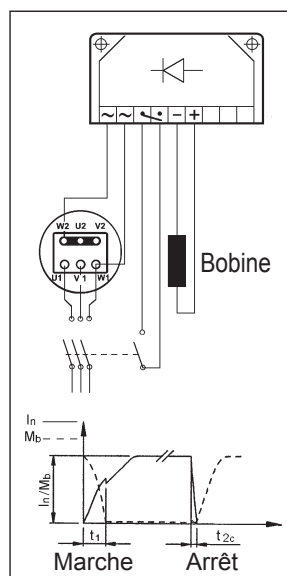
(F 41)



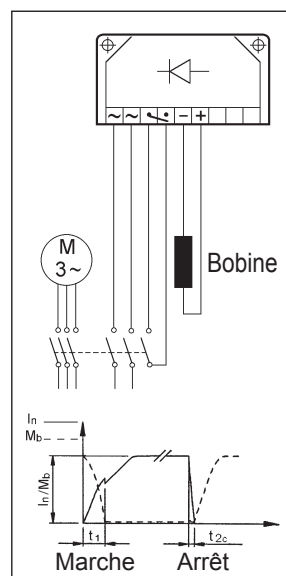
(F 42)

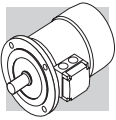


(F 43)



(F 44)

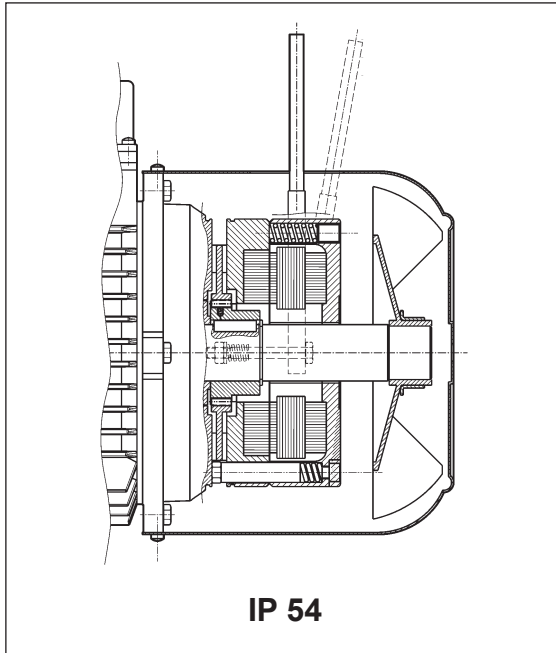




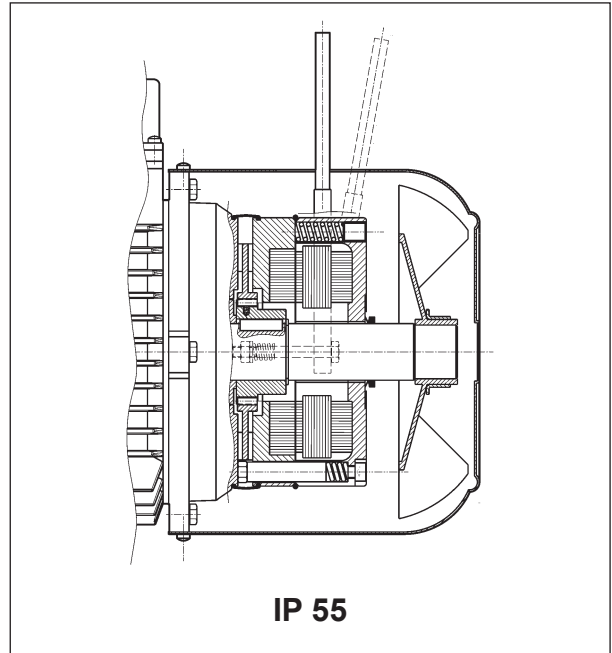
M8 MOTEURS FREIN EN C.A., TYPE BN_FA et M_FA

Tailles : BN 63 ... BN 180M / M05 ... M5

(F 45)



(F 46)



Frein électromagnétique avec alimentation en **courant alternatif** triphasé, fixé avec des vis au bouclier ; les ressorts de précharge réalisent le positionnement axial de la bobine.

Le disque frein coulisse de façon axiale sur le moyeu d'entraînement en acier, calé sur l'arbre et doté d'un dispositif antivibration.

Le couple de freinage est pré réglé en usine aux valeurs qui sont indiquées dans les tableaux des caractéristiques techniques des moteurs correspondants. De plus, l'action du frein est modulable, en réglant le couple de freinage en continu au moyen des vis qui réalisent la précharge des ressorts ; la plage de réglage du couple est de $30\% M_{bMAX} < M_b < M_{bMAX}$ (M_{bMAX} est le couple de freinage maximum indiqué dans le tab. (F48).

Le frein type FA présente des caractéristiques dynamiques très élevées, il est donc adapté pour des applications nécessitant des fréquences de démarrage élevées et des temps d'intervention très rapides. Sur demande, les moteurs peuvent être prévus avec levier pour le déblocage manuel avec retour automatique (**R**). pour la position angulaire du levier de déblocage, voir description de la variante correspondante au paragraphe "SYSTEMES DE DEBLOCAGE FREIN".

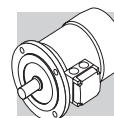
Pour des applications qui prévoient des levages et/ou des valeurs élevées de travail horaire à écouler, contacter le service technique commercial.

M8.1 Degré de protection

L'exécution standard prévoit le degré de protection IP54.

En option, le moteur frein BN_FA est fourni avec degré de protection **IP55**, les variations de construction suivantes sont prévues

- bague V-ring positionnée sur l'arbre moteur N.D.E.
- bande de protection en caoutchouc
- joint torique



M8.2 Alimentation frein FA

Sur les moteurs à simple polarité, l'alimentation de la bobine frein dérive directement du bornier moteur, par conséquent, la tension du frein coïncide avec la tension du moteur. Dans ce cas, la tension du frein peut être omise de la désignation.

Pour les moteurs à double polarité et les moteurs avec alimentation séparée du frein, une boîte à bornes auxiliaire avec 6 bornes pour le raccordement à la ligne du frein, est présente. Dans les deux cas, la valeur de tension du frein doit être spécifiée dans la désignation.

Le tableau suivant indique les conditions d'alimentation standard du frein en c.a. pour les moteurs à simple et double polarité

(F 47)

| Moteurs à simple polarité | BN 63...BN 132 | BN 160...BN 180 |
|---------------------------|----------------------------|---------------------------|
| | M05...M4LB | M4LC...M5 |
| | 230Δ / 400Y V ±10% – 50 Hz | 400Δ/ 690Y V ±10% – 50 Hz |
| | 265Δ / 460Y ±10% - 60 Hz | 460Y – 60 Hz |

| Moteurs à double polarité (alimentation depuis ligne séparée) | BN 63...BN 132 |
|--|----------------------------|
| | M05...M4 |
| | 230Δ / 400Y V ±10% – 50 Hz |
| | 460Y - 60 Hz |

Sauf spécification contraire, l'alimentation standard du frein est 230Δ /400Y V - 50 Hz.

Sur demande, des tensions spéciales sont disponibles dans la plage 24...690 V, 50-60 Hz.

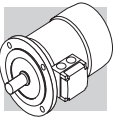
M8.3 Caractéristiques techniques freins FA

(F 48)

| Frein | Couple de freinage M_b [Nm] | Déblocage t_1 [ms] | Freinage t_2 [ms] | W_{max} [J] | | | W [MJ] | P [VA] |
|--------|-------------------------------------|----------------------------|---------------------------|--------------------|---------|----------|-----------|-----------|
| | | | | 10 s/h | 100 s/h | 1000 s/h | | |
| FA 02 | 3.5 | 4 | 20 | 4500 | 1400 | 180 | 15 | 60 |
| FA 03 | 7.5 | 4 | 40 | 7000 | 1900 | 230 | 25 | 80 |
| FA 04 | 15 | 6 | 60 | 10000 | 3100 | 350 | 30 | 110 |
| FA 14 | | | | | | | | |
| FA 05 | 40 | 8 | 90 | 18000 | 4500 | 500 | 50 | 250 |
| FA 15 | | | | | | | | |
| FA 06S | 60 | 16 | 120 | 20000 | 4800 | 550 | 70 | 470 |
| FA 06 | 75 | 16 | 140 | 29000 | 7400 | 800 | 80 | 550 |
| FA 07 | 150 | 16 | 180 | 40000 | 9300 | 1000 | 130 | 600 |
| FA 08 | 250 | 20 | 200 | 60000 | 14000 | 1500 | 230 | 1200 |

M_b = couple de freinage statique max ($\pm 15\%$)
 t_1 = temps de déblocage frein
 t_2 = retard de freinage
 W_{max} = énergie max par freinage (capacité thermique du frein)
W = énergie de freinage entre deux réglages successifs de l'entrefer
 P_b = puissance absorbée par le frein à 20° (50 Hz)
s/h = démarrages par heures

N.B.
Les valeurs de t_1 et t_2 indiquées dans le tableau se réfèrent au frein étaloné au couple nominal, entrefer moyen et tension nominale.

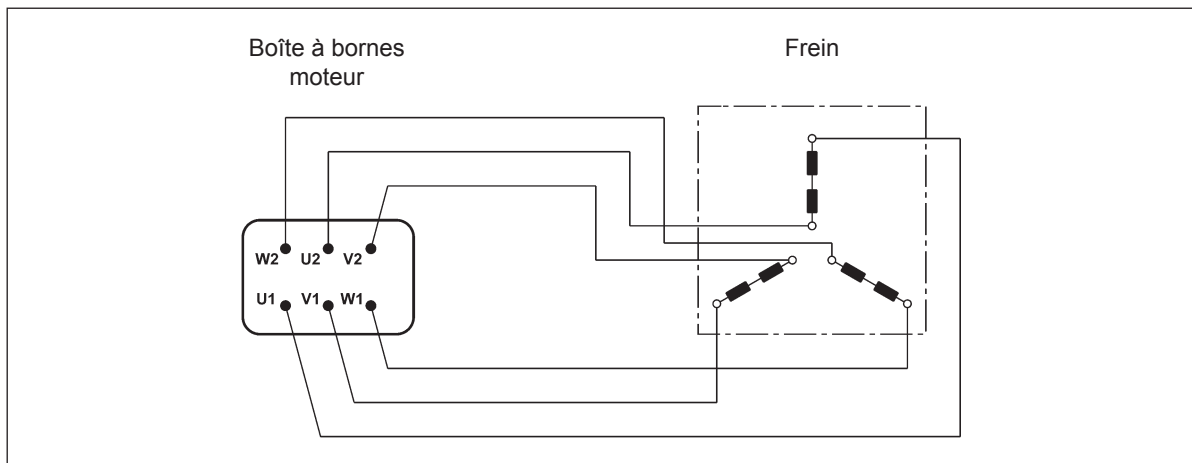


L'usure des plaquettes de frottement dépend des conditions de fonctionnement (température, humidité, vitesse de glissement, pression spécifique) ; les valeurs d'usure doivent donc être considérées comme fournies à titre indicatif.

M8.4 Raccordements frein FA

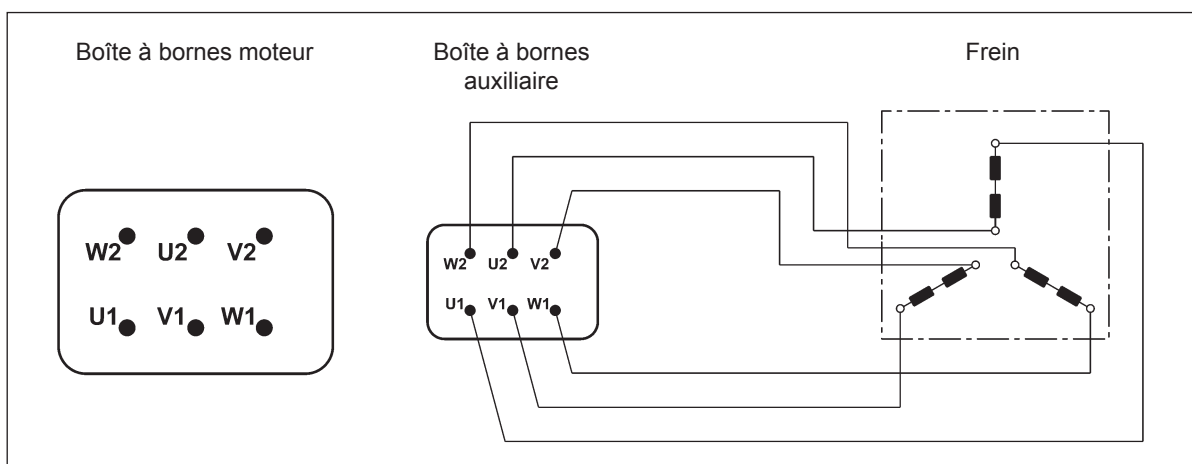
Pour les moteurs avec alimentation du frein dérivant directement de l'alimentation moteur, les raccordements à la boîte à bornes correspondent aux indications du schéma (F49) :

(F 49)



Pour les moteurs à double polarité et, lorsque cela est requis, pour les moteurs à une vitesse avec alimentation depuis une ligne séparée, une boîte à bornes auxiliaire à 6 bornes est prévue pour le raccordement du frein ; dans cette exécution les moteurs prévoient un couvercle bornier majoré. Voir schéma (F50) :

(F 50)

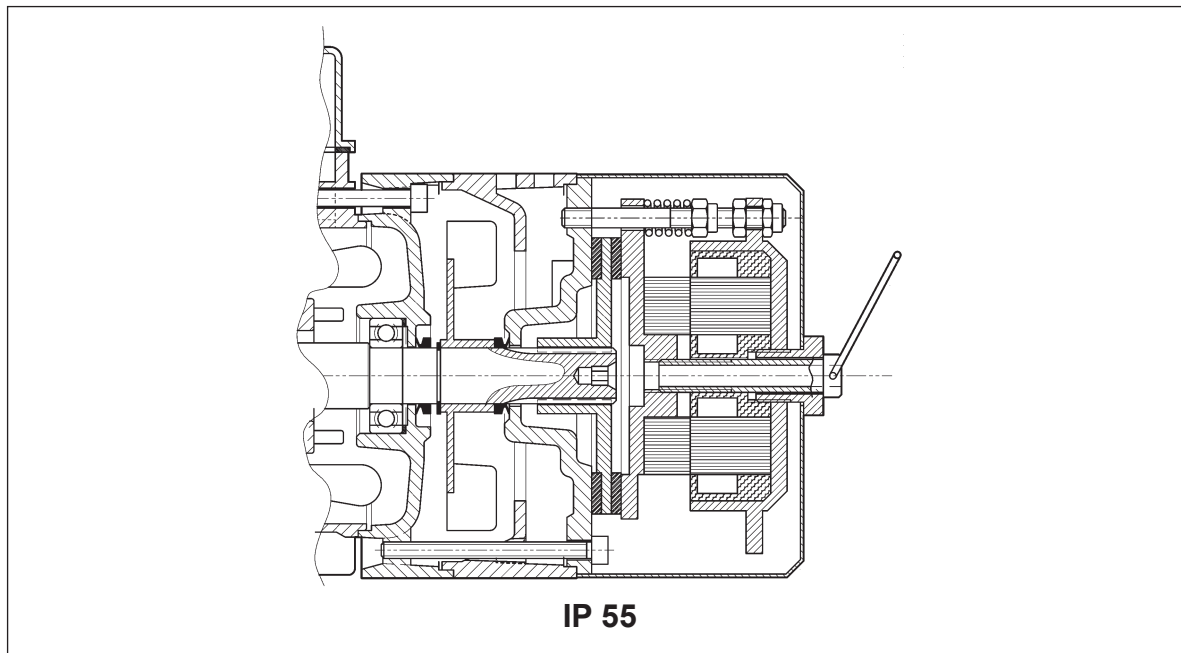




M9 MOTEURS FREIN EN C.A., TYPE BN_BA

Tailles : BN 63 ... BN 132M

(F 51)



Frein électromagnétique avec alimentation en **courant alternatif** triphasé, fixé avec des vis au boulon.

Disque frein en acier coulissant de façon axiale sur l'arbre moteur claveté (moyeu d'entraînement en acier calé sur l'arbre pour la taille 244).

Les moteurs sont fournis avec frein étalonné au couple maximal.

Le couple de freinage est réglable en continu en intervenant sur les vis de compression des ressorts ; la plage de réglage autorisée est de $30\% M_{bMAX} < M_b < M_{bMAX}$ (M_{bMAX} étant le couple de freinage maximum indiqué dans le tab. (F53).

De série, les moteurs sont fournis avec vis de déblocage manuel du frein, avec maintien de la position de relâchement afin de permettre la rotation de l'arbre moteur.

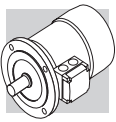
La vis de déblocage doit être démontée après utilisation afin de garantir le fonctionnement correct du frein et d'éviter les situations potentiellement dangereuses.

Le frein BA, outre les caractéristiques dynamiques élevées typiques des freins en courant alternatif, est de fabrication robuste avec énergie de freinage majorée, ce qui le rend particulièrement adapté pour les services difficiles ainsi que pour les applications nécessitant des fréquences de manœuvre élevées et des temps d'intervention très rapides.

Pour des applications qui prévoient des levages et/ou des valeurs élevées de travail horaire à écouler, contacter le service technique commercial.

M9.1 Degré de protection

Il est disponible en une exécution unique, avec degré de protection IP55.



M9.2 Alimentation frein BA

Sur les moteurs à simple polarité, l'alimentation de la bobine frein dérive directement du bornier moteur, par conséquent, la tension du frein coïncide avec la tension du moteur. Dans ce cas, la tension du frein peut être omise de la désignation.

Pour les moteurs à double polarité et les moteurs avec alimentation séparée du frein, un boîte à bornes auxiliaire avec 6 bornes pour le raccordement au réseau du frein, est présente. Dans les deux cas, la valeur de tension du frein doit être spécifiée dans la désignation.

Le tableau suivant indique les conditions d'alimentation standard du frein en c.a. pour les moteurs à simple et double polarité :

(F 52)

| Moteurs à simple polarité | BN 63 ... BN 132 |
|--|----------------------------|
| | 230Δ / 400Y V ±10% – 50 Hz |
| | 265Δ / 460Y ±10% - 60 Hz |
| Moteurs à double polarité (alimentation depuis ligne séparée) | BN 63 ... BN 132 |
| | 230Δ / 400Y V ±10% – 50 Hz |
| | 460Y - 60 Hz |

Sauf spécification contraire, l'alimentation standard du frein est 230Δ /400Y V - 50 Hz.

Sur demande, des tensions spéciales sont disponibles dans la plage 24...690 V, 50-60 Hz.

M9.3 Caractéristiques techniques freins BA

Le tableau ci-dessous indique les caractéristiques techniques des freins en c.a., type BA.

(F 53)

| Frein | Couple de freinage M_b [Nm] | Déblocage t_1 [ms] | Freinage t_2 [ms] | W_{max} [J] | | | W [MJ] | P_B [VA] |
|--------|-------------------------------------|----------------------------|---------------------------|--------------------|---------|----------|-----------|---------------|
| | | | | 10 s/h | 100 s/h | 1000 s/h | | |
| BA 60 | 5 | 5 | 20 | 4000 | 1500 | 180 | 30 | 60 |
| BA 70 | 8 | 6 | 25 | 7000 | 2700 | 300 | 60 | 75 |
| BA 80 | 18 | 6 | 25 | 10000 | 3100 | 350 | 80 | 110 |
| BA 90 | 35 | 8 | 35 | 13000 | 3600 | 400 | 88 | 185 |
| BA 100 | 50 | 8 | 35 | 18000 | 4500 | 500 | 112 | 225 |
| BA 110 | 75 | 8 | 35 | 28000 | 6800 | 750 | 132 | 270 |
| BA 140 | 150 | 15 | 60 | 60000 | 14000 | 1500 | 240 | 530 |

M_b = couple de freinage statique max ($\pm 15\%$)
 t_1 = temps de déblocage frein
 t_2 = retard de freinage
 W_{max} = énergie max par freinage (capacité thermique du frein)
 W = énergie de freinage entre deux réglages successifs de l'entrefer
 P_b = puissance absorbée par le frein à 20° (50 Hz)
 s/h = démarrages par heures

N.B.
 Les valeurs de t_1 et t_2 indiquées dans le tableau se réfèrent au frein étalonné au couple nominal, entrefer moyen et tension nominale.

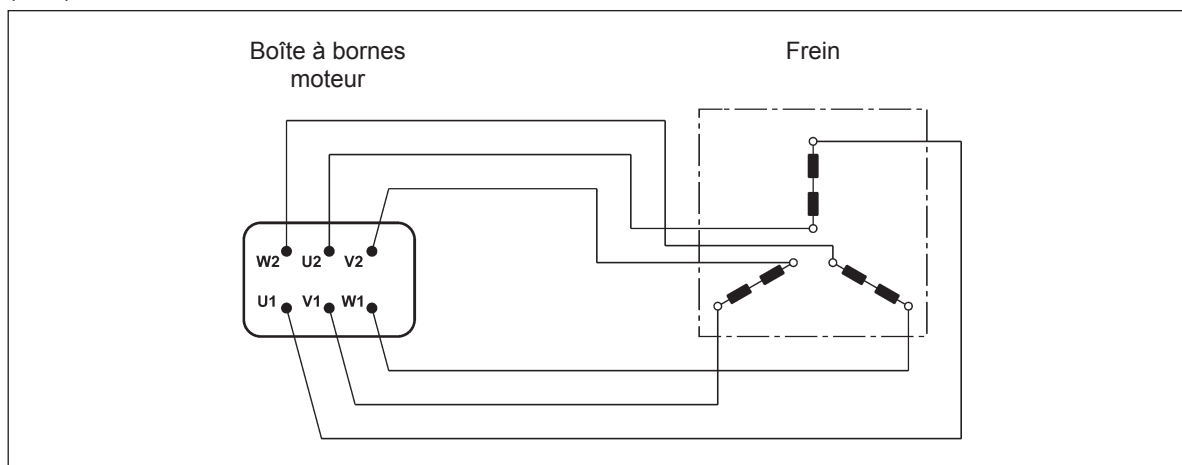


L'usure des plaquettes de frottement dépend des conditions de fonctionnement (température, humidité, vitesse de glissement, pression spécifique) ; les valeurs d'usure doivent donc être considérées comme fournies à titre indicatif.

M9.4 Raccordements frein BA

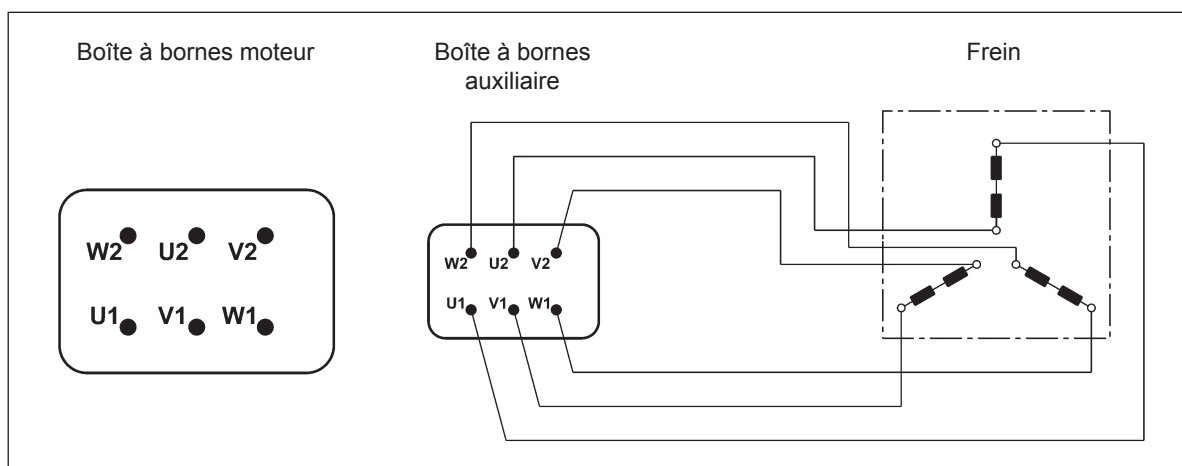
Pour les moteurs avec alimentation du frein dérivant directement de l'alimentation moteur, les raccordements à la boîte à bornes correspondent aux indications du schéma (F54) :

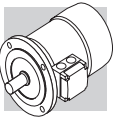
(F 54)



Pour les moteurs à double polarité et, lorsque cela est requis, pour les moteurs à une vitesse avec alimentation depuis ligne séparée, une boîte à bornes auxiliaire à 6 bornes est prévue pour le raccordement du frein ; dans cette exécution les moteurs prévoient un couvercle bornier majoré. Voir schéma (F55) :

(F 55)



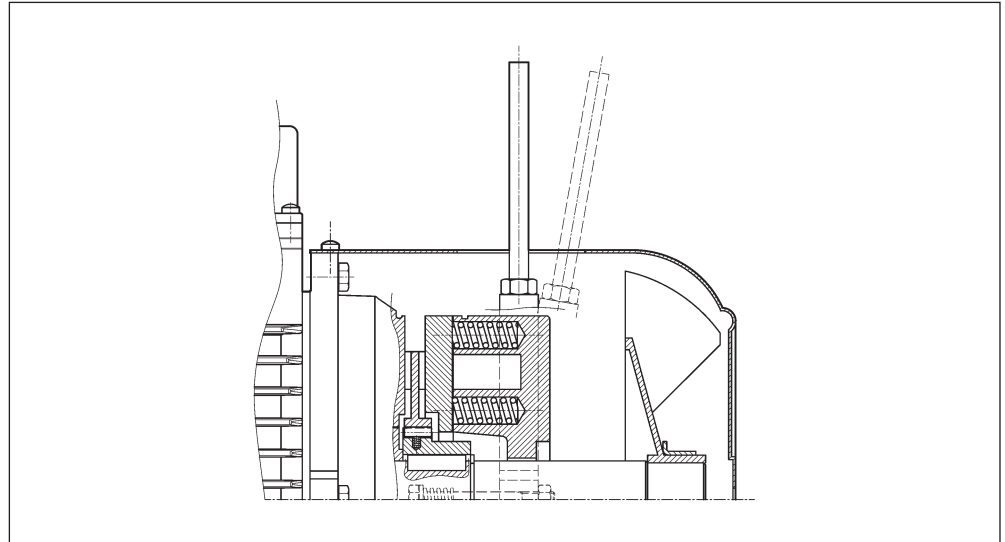


M10 SYSTEMES DE DEBLOCAGE FREIN

Les freins à pression de ressorts type FD, AFD et FA peuvent, en option, être dotés de dispositifs de déblocage manuel du frein, normalement utilisés pour effectuer des interventions d'entretien sur les composants de la machine, ou de l'installation commandée par le moteur.

(F 56)

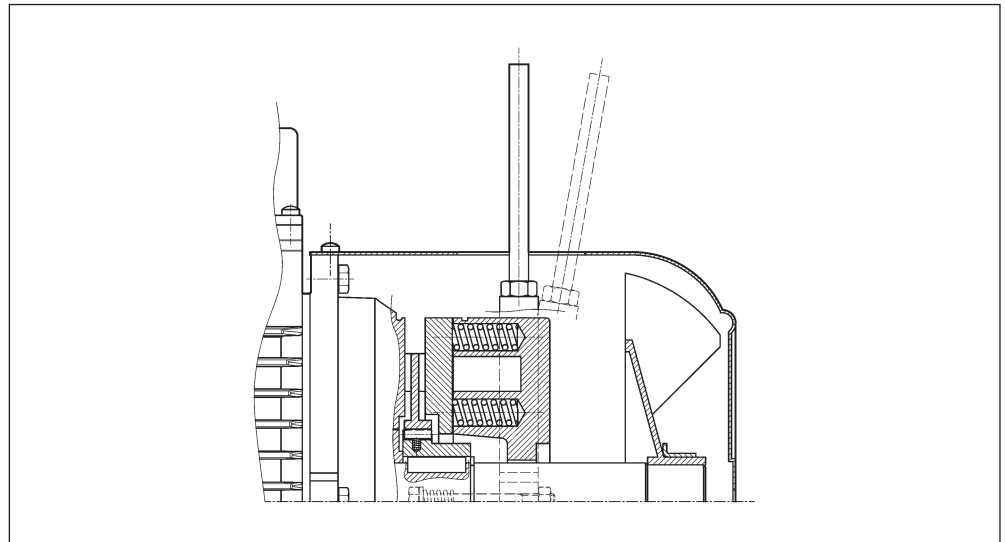
R



Le levier de déblocage est doté d'un retour automatique, au moyen d'un dispositif à ressort.

(F 57)

RM

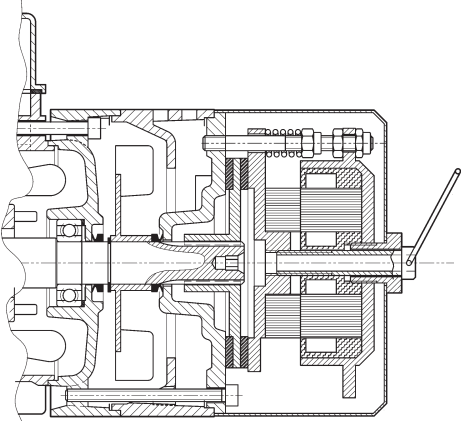


Levier de déblocage peut être temporairement bloqué en position de déblocage du frein en le vissant jusqu'à engager l'extrémité dans une saillie du corps du frein.

La disponibilité des systèmes de déblocage du frein est différente en fonction des types de moteur et figure dans le tableau suivant.



(F 58)

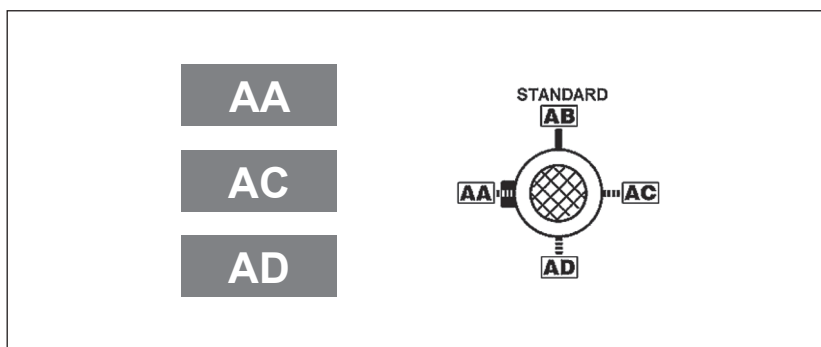
| | R | RM |
|--------|---|---|
| BN_FD | BN 63...BN 200 | 2p 63A2 ≤ H ≤ 132M2 4p 63A4 ≤ H ≤ 132MA4 6p 63A6 ≤ H ≤ 132MA6 |
| BN_AFD | BN 63...BN 160MR | ⊖ |
| M_FD | M 05...M 5 | M 05...M 4LA |
| M_AFD | M 05...M 4LC | ⊖ |
| BN_FA | BN 63...BN 180M | ⊖ |
| M_FA | M 05...M 5 | |
| BN_BA |  | |

M10.1 Orientation du levier de déblocage

Pour les deux options **R** et **RM**, le levier de déblocage du frein est positionné, sauf spécification contraire, avec une orientation de 90° dans le sens des aiguilles d'une montre par rapport à la position de la boîte à bornes - référence **[AB]** sur le dessin ci-dessous.

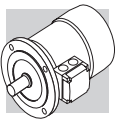
Des orientations différentes, type **[AA]**, **[AC]** et **[AD]** peuvent être demandées à condition de préciser la position correspondante :

(F 59)





M10.2 Caractéristiques volants (F1)

Le tableau suivante indique le poids et l'inertie des volants supplémentaires sans variations de l'encombrement moteur.



(F 60)

| Données volant pour moteurs type: BN_FD, M_FD | | | |
|---|---|----------------------|---------------------------------------|
|  |  | Poids volant [Kg] | Inertie volant [Kgm ²] |
| BN 63 | M05 | 0.69 | 0.00063 |
| BN 71 | M1 | 1.13 | 0.00135 |
| BN 80 | M2 | 1.67 | 0.00270 |
| BN 90 S - BN 90 L | – | 2.51 | 0.00530 |
| BN 100 | M3 | 3.48 | 0.00840 |
| BN 112 | – | 4.82 | 0.01483 |
| BN 132 S - BN 132 M | M4 | 6.19 | 0.02580 |

M11 OPTIONS

M11.1 Protections thermiques

Outre la protection garantie par l'interrupteur magnétothermique, les moteurs peuvent être équipés de sondes thermiques incorporées pour protéger le bobinage contre une surchauffe excessive due par exemple à une ventilation insuffisante ou un service intermittent.

Cette protection devrait toujours être prévue pour les moteurs servoventilés (IC416).

M11.2 Sondes thermométriques

E3

Ce sont des semiconducteurs qui présentent une variation rapide de résistance à proximité de la température nominale d'intervention (150 °C).

L'évolution de la caractéristique $R = f(T)$ est défini par les Normes DIN 44081, IEC 34-11.

En général, on utilise des thermistors à coefficient de température positif dénommés également "résistors à conducteur froid" PTC.

Les thermistances ne peuvent pas commander directement les relais et doivent donc être branchées à un appareil de déclenchement adapté.

Avec cette protection, trois sondes (reliées en série), sont insérées dans le bobinage avec extrémités disponibles dans le bornier auxiliaire.

K1

Il s'agit d'un sous-groupe des thermistances PTC, dont les caractéristiques de construction permettent de les utiliser en tant que capteurs de température ayant un coefficient de température positif en fonction de la résistance.

La température d'exploitation est de : 0 °C ... +260 °C.

Les thermistances ne peuvent pas commander directement les relais et doivent donc être branchées à un appareil de déclenchement adapté.

Les bornes (polarisées) d'1 KTY 84-130 sont disponibles dans un bornier auxiliaire.



M11.3 Sondes thermiques bimétalliques

D3

Les protecteurs de ce type contiennent, dans une enveloppe interne, un disque bimétallique qui, lorsque la température nominale d'intervention (150 °C) est atteinte, commute les contacts de la position de repos.

Avec la diminution de la température, le disque et les contacts reprennent automatiquement la position de repos.

Normalement, on utilise trois sondes bimétalliques en série avec contacts normalement fermés et extrémités disponibles dans un bornier auxiliaire.

M11.4 Moteur avec connecteur

CON

Trois types de connecteurs sont disponibles (CON 1, CON 2, CON 3), qui peuvent être installés dans deux positions de montage : côté droit boîtier couvre-bornier (C1D, C2D, C3D) ; côté gauche boîtier couvre-bornier (C1S, C2S, C3S).

L'option CON est prévue pour les moteurs BN et M à polarité unique (2, 4, 6, 8, pôles) dans les grandeurs indiquées dans le tableau suivant. Toutes les versions à double polarité sont exclues.

Les connecteurs sont disponibles pour les moteurs BN et M dans la version sans frein et pour les moteurs autofreinants BN et M dotés d'un frein à courant continu FD ou AFD, dans les grandeurs indiquées dans le tableau suivant.

Le connecteur mâle (doté d'une fiche) est fixé sur le moteur, le connecteur femelle est exclu de la fourniture.

Avec l'option CON, le branchement en Y des phases est toujours prévu.

Pour des moteurs dotés d'une servo-ventilation (option U1), l'alimentation du ventilateur est prévue dans le boîtier de bornier séparé, fixé à l'enveloppe du ventilateur.

Dans les moteurs dotés d'un encodeur (options EN1...EN6), la connexion de l'encodeur se fait par le biais d'un câble volant non connecté au connecteur.

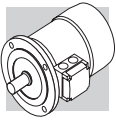
L'option CON n'est pas applicable aux moteurs dotés d'un frein en courant alternatif FA, BA.

L'option CON n'est pas compatible avec les options U2, CUS, IC.

Caractéristiques techniques

(F 61)

| Option | CON 1 |
|-------------------------------------|----------------------------|
| Taille moteur | BN63...BN112 / M05...M3 |
| Vue connecteur | |
| Type de connecteur | Harting Han 10ES |
| Corps connecteur | Han EMC 10B avec 2 leviers |
| Nombre de broches - courant nominal | 10 x 16A |
| Tension d'alimentation | 500 Vac |
| Type de connexion contacts | Bornes avec vis |



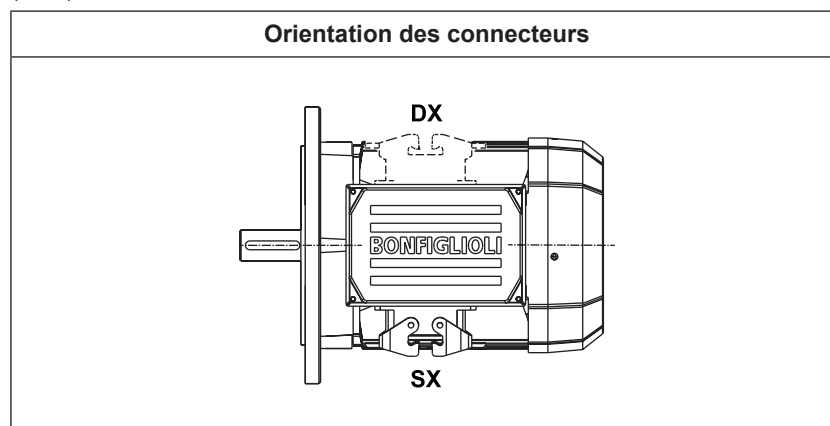
(F 62)

| Option | CON 2 |
|-------------------------------------|------------------------------------|
| Taille moteur | BN63...BN160MR / M05...M4LC |
| Vue connecteur | |
| Type de connecteur | Harting Han Modular |
| Corps connecteur | Han EMC 10B avec 2 leviers |
| Type de Modules | Module C + Module vide + Module E |
| Nombre de broches - courant nominal | 3 x 36A / 6 x 16A |
| Tension d'alimentation | 500 Vac |
| Type de connexion contacts | Contacts à sertir |

(F 63)

| Option | CON 3 |
|-------------------------------------|------------------------------------|
| Taille moteur | BN63...BN160MR / M05...M4LC |
| Vue connecteur | |
| Type de connecteur | Harting Han Modular |
| Corps connecteur | Han EMC 10B avec 2 leviers |
| Type de Modules | Module C + Module E + Module E |
| Nombre de broches - courant nominal | 3 x 36A / 6 + 6 x 16A |
| Tension d'alimentation | 500 Vac |
| Type de connexion contacts | Contacts à sertir |

(F 64)





(F 65)

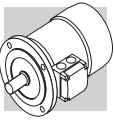
| Dimensions d'encombrement moteurs sans frein | | | | | | |
|--|------------|---------|---------|---------|---------|-----------|
| | | | | | | |
| | | AD (mm) | AF (mm) | AH (mm) | LL (mm) | V(*) (mm) |
| BN63 | M05 | 136 | 110 | 45 | 165 | 4.5 |
| BN71 | M1 | 149 | 110 | 45 | 165 | 15.5 |
| BN80 | M2 | 160 | 110 | 45 | 165 | 16.5 |
| BN90 | — | 162 | 110 | 45 | 165 | 31.5 |
| BN100 | M3 | 171 | 110 | 45 | 165 | 37.5 |
| BN112 | — | 186 | 110 | 45 | 165 | 39 |
| BN132 | M4 | 210 | 140 | 45 | 188 | 45.5 |
| BN160MR | — | 210 | 140 | 45 | 188 | 161 |

(*) Dimension valide uniquement pour les moteurs BN.

(F 66)

| Dimensions d'encombrement moteurs avec frein FD | | | | | | |
|---|------------|---------|---------|---------|---------|-----------|
| | | | | | | |
| | | AD (mm) | AF (mm) | AH (mm) | LL (mm) | V(*) (mm) |
| BN63 | M05 | 136 | 110 | 45 | 165 | 4.5 |
| BN71 | M1 | 149 | 110 | 45 | 165 | 1.5 |
| BN80 | M2 | 160 | 110 | 45 | 165 | 18.5 |
| BN90 | — | 162 | 110 | 45 | 165 | 39.5 |
| BN100 | M3 | 171 | 110 | 45 | 165 | 63.5 |
| BN112 | — | 186 | 110 | 45 | 165 | 75 |
| BN132 | M4 | 210 | 140 | 45 | 188 | 122 |
| BN160MR | — | 210 | 140 | 45 | 188 | 161 |

(*) Dimension valide uniquement pour les moteurs BN.



M11.5 Contrôle de la fonctionnalité du frein

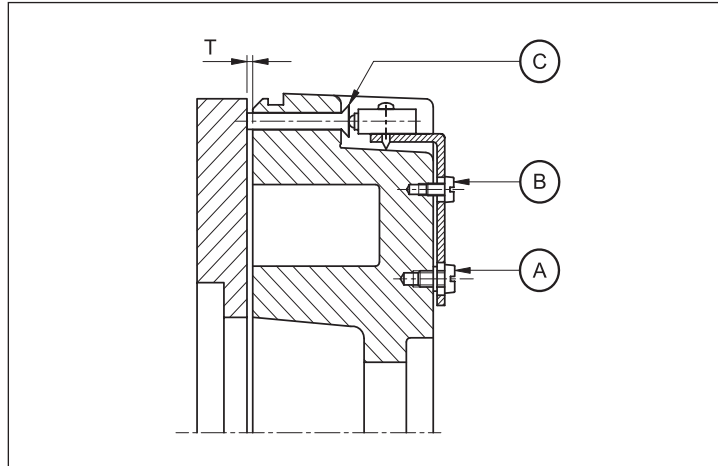
MSW

Le micro-interrupteur peut être réglé pour signaler l'attraction/le relâchement de l'ancre mobile ou pour signaler que la valeur maximale admissible pour l'entrefer est atteinte.

L'option MSW est disponible pour les freins FD03...FD09 et AFD03...AFD07.

Le micro-interrupteur est doté de trois bornes NC, NO, COM. Sur la figure ci-dessous sont représentés les principaux composants du frein équipé du micro-interrupteur.

(F 67)



- A: Vis de fixation
- B: Vis de réglage
- C: Actionneur

M11.6 Entrée de câbles supplémentaire pour moteurs autofreinants

IC

Sur le boîtier couvre-bornier des moteurs autofreinants BN63...BN160MR / M05...M4, il existe deux entrées de câble supplémentaires M16 x 1,5 (une par côté).

Sur le boîtier couvre-bornier des moteurs autofreinants BN160...BN200 / M5, il existe une entrée de câble supplémentaire M16 x 1,5 à côté de l'entrée de câble de frein.

M11.7 Réchauffeurs anticondensation

H1



Les moteurs fonctionnant dans des milieux très humides et/ou en présence de fortes plages thermiques peuvent être équipés d'une résistance anticondensation.

L'alimentation monophasée est prévue par l'intermédiaire d'une boîte à bornes auxiliaire située dans la boîte principale.

Les puissances absorbées sont indiqués ci-dessous :



(F 68)

| |  |  | H1 |
|--------------------------|---|---|------------------------|
| | | | 1~ 230V ± 10% P [W] |
| BN 56...BN 80 | | M0...M2 | 10 |
| BN 90...BN 160MR | | M3 - M4 | 25 |
| BN 160M...BN 180M | | M5 | 50 |
| BN 180L...BN 200L | | — | 50 |

Avertissement! Durant le fonctionnement du moteur, la résistance anticondensation ne doit jamais être alimentée.

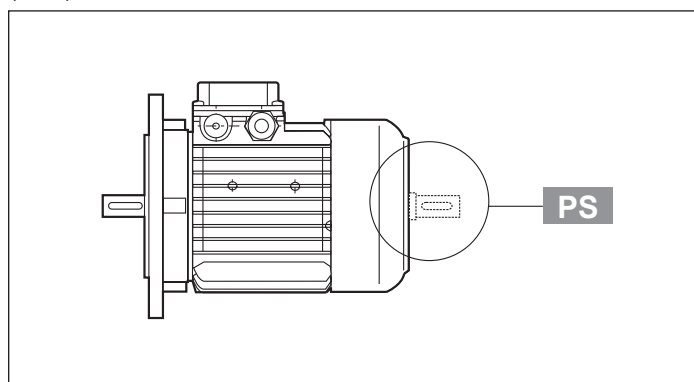
M11.8 Arbre à double extrémité

PS

L'option exclut les variantes RC, TC, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6 – non applicables aux moteurs avec frein type BA.

Les dimensions figurent sur les planches de dimensions des moteurs.

(F 69)



M11.9 Dispositif anti-retour

AL

AR

Pour les applications où il est nécessaire d'empêcher la rotation inverse du moteur à cause de l'action de la charge, il est possible d'utiliser des moteurs dotés d'un dispositif anti-retour (disponible seulement sur la série M).

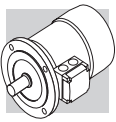
Ce dispositif, bien que permettant la libre rotation dans le sens de marche, intervient instantanément en cas de manque d'alimentation en bloquant la rotation de l'arbre dans le sens inverse.

Le dispositif anti-retour est lubrifié à vie avec une graisse spécifique pour cette application.


En phase de commande, il faudra indiquer clairement le sens de marche prévu. En aucun cas, le dispositif anti-retour ne devra être utilisé pour empêcher la rotation inverse en cas de branchement électrique erroné.

Le tableau (F70) indique le couple nominal et le couple maximum de blocage attribués aux dispositifs anti-retour utilisés alors que la représentation schématique du dispositif se trouve dans le tableau (F71). Les dimensions sont les mêmes que celles d'un moteur frein.

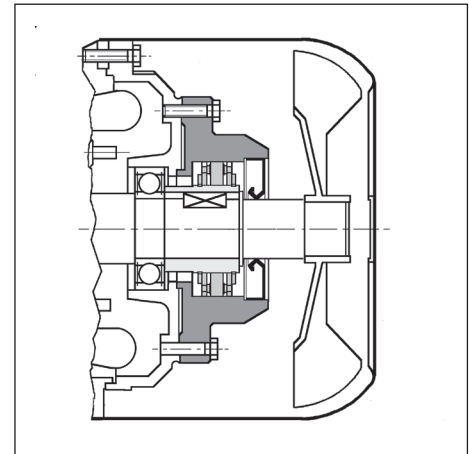
Le sens de rotation libre est décrit au paragraphe "OPTIONS MOTEURS" dans les sections spécifiques dédiées aux réducteurs.



(F 70)

|  | Couple nominal de blocage | Couple maxi. de blocage | Vitesse de décolllement |
|---|---------------------------|-------------------------|-------------------------|
| | [Nm] | [Nm] | [min ⁻¹] |
| M1 | 6 | 10 | 750 |
| M2 | 16 | 27 | 650 |
| M3 | 54 | 92 | 520 |
| M4 | 110 | 205 | 430 |

(F 71)



M11.10 Ventilation

Les moteurs sont refroidis par ventilation externe (IC 411 selon CEI EN 60034-6) et sont équipés d'un ventilateur radial en plastique fonctionnant dans les deux sens de rotation.



L'installation doit garantir une distance minimum de la capot cache-ventilateur par rapport au mur le plus proche de façon à ne pas créer d'empêchement à la circulation de l'air ainsi que pour permettre les interventions d'entretien ordinaire du moteur et, si présent, du frein.

Sur demande, à partir de la taille BN 71, ou M1, les moteurs peuvent être fournis avec ventilation forcée à alimentation indépendante. Le refroidissement est réalisé au moyen d'un ventilateur axial avec alimentation indépendante monté sur la capot cache-ventilateur (méthode de refroidissement IC 416).

Cette exécution est utilisée en cas d'alimentation du moteur par variateur dans le but d'étendre aussi la plage de fonctionnement à couple constant aux faibles vitesses ou lorsque des fréquences de démarrage élevées sont nécessaire à celui-ci.

Les moteurs frein type BN_BA et les moteurs avec arbre sortant des deux côtés (option PS) SP sont exclus de cette option.



(F 72)

| Données d'alimentation | | | | | |
|---|---|-----------------|---------|-------------|-------------|
|  |  | V a.c. ± 10% | Hz | P [W] | I [A] |
| BN 71 | M1 | 1~ 230 | 50 / 60 | 22 | 0.12 |
| BN 80 | M2 | | | 22 | 0.12 |
| BN 90 | — | | | 40 | 0.30 |
| BN 100 (*) | M3 | | | 50 | 0.25 |
| BN 112 | — | 3~ 230 Δ / 400Y | | 50 | 0.26 / 0.15 |
| BN 132S | M4S | | 110 | 0.38 / 0.22 | |
| BN 132M...BN 160MR | M4L | | | | |
| BN 160...BN 180M | M5 | | 50 | 1.25 / 0.72 | |

Pour la variante sont disponibles deux exécutions alternatives, dénommées **U1** et **U2**, ayant le même encombrement dans le sens longitudinal. Pour les deux exécutions, la majoration de la longueur du capot cache-ventilateur (**DL**) est indiquée dans le tableau suivant. Dimensions totales à calculer d'après les planches de dimensions des moteurs.



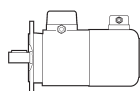
(F 73)

| Tableau majoration longueurs moteur | | | |
|---|---|--------------|--------------|
|  |  | ΔL_1 | ΔL_2 |
| BN 71 | M1 | 93 | 32 |
| BN 80 | M2 | 127 | 55 |
| BN 90 | — | 131 | 48 |
| BN 100 | M3 | 119 | 28 |
| BN 112 | — | 130 | 31 |
| BN 132S | M4S | 161 | 51 |
| BN 132M | M4L | 161 | 51 |

ΔL_1 = variation de dimension par rapport à la cote LB du moteur standard correspondant

ΔL_2 = variation de dimension par rapport à la cote LB du moteur frein correspondant

U1

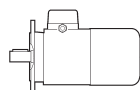


Bornes d'alimentation du ventilateur dans un bornier séparé.

Pour les moteurs frein taille BN 71...BN 160MR, avec variante **U1**, le levier de déblocage ne peut être installé en position AA.

L'option n'est pas disponible pour les moteurs conformes aux normes CSA et UL (option CUS).



U2



Bornes d'alimentation du ventilateur dans le bornier principal du moteur.

L'option n'est pas applicable aux moteurs BN 160...BN 200L, sauf pour les moteurs BN 160MR, pour lesquels l'option est disponible et aux moteurs avec l'option CUS (conforme aux normes CSA et UL).

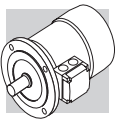
(F 74)

| (*) |  |  | V a.c. $\pm 10\%$ | Hz | P [W] | I [A] |
|-----|---|---|------------------------|---------|-------|-------------|
| | BN 100_U2 | M3 | 3~ 230 Δ / 400Y | 50 / 60 | 40 | 0.12 / 0.09 |



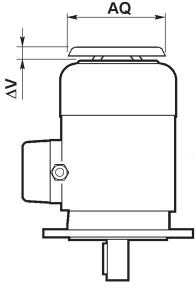
M11.11 Capot de protection anti-pluie

RC

Le capot de protection antipluie est recommandé lorsque le moteur est monté verticalement avec l'arbre vers le bas, il sert à protéger le moteur contre l'introduction de corps solides et le suintement. Les dimensions à ajouter sont indiquées dans le tableau suivant. Le capot antipluie exclut les variantes PS, EN1, EN2, EN3, EN4, EN5, EN6 et n'est pas applicable aux moteurs avec frein type BA.



(F 75)

|  |  | AQ | ΔV |  |
|---|---|-----|------------|---|
| BN 63 | M05 | 118 | 24 | |
| BN 71 | M1 | 134 | 27 | |
| BN 80 | M2 | 152 | 25 | |
| BN 90 | — | 168 | 30 | |
| BN 100 | M3 | 190 | 28 | |
| BN 112 | — | 211 | 32 | |
| BN 132...BN 160MR | M4 | 254 | 32 | |
| BN 160M...BN 180M | M5 | 302 | 36 | |
| BN 180L...BN 200L | — | 340 | 36 | |

M11.12 Capot textile

TC

La variante du capot type TC est à spécifier lorsque le moteur est installé dans des sites de l'industrie textile, où sont présents des filaments qui pourraient obstruer la grille du cache-ventilateur et empêcher le flux régulier de l'air de refroidissement.

L'option exclut les variantes EN1, EN2, EN3, EN4, EN5, EN6 et n'est pas applicable aux moteurs avec frein type BA. L'encombrement total est identique à celui du capot type RC.

M11.13 Dispositifs de retroaction

Pour moteurs peuvent être dotés de trois types de codeurs différents, décrits ci-après.

Le montage du codeur exclut les exécutions avec arbre à double extrémité (PS) et le capot de protection (RC, TC).

Le dispositif n'est pas applicable aux moteurs avec frein en c.a., type BA.

EN1

Codeur incrémental, $V_{IN} = 5 V$, sortie line-driver RS 422.

EN2

Codeur incrémental, $V_{IN} = 10-30 V$, sortie line-driver RS 422.

EN3

Codeur incrémental, $V_{IN} = 12-30 V$, sortie push-pull 12-30 V.



EN4

Encodeur sin/cos, $V_{IN} = 4,5-5,5$ V, sortie sinus $0,5 V_{PP}$.

EN5

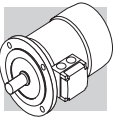
Encodeur absolu monotour, interface HIPERFACE®, $V_{IN} = 7-12$ V.

EN6

Encodeur absolu multitour, interface HIPERFACE®, $V_{IN} = 7-12$ V.

(F 76)

| | EN1 | EN2 | EN3 | EN4 | EN5 | EN6 |
|---|---|------------|---------------|---|------------|------------|
| interface | TTL/RS 422 | TTL/RS 422 | HTL/push-pull | Sinus 0.5 VPP | HIPERFACE® | HIPERFACE® |
| tension d'alimentation [V] | 4...6 | 10...30 | 12...30 | 4.4...5.5 | 7...12 | 7...12 |
| tension de sortie [V] | 5 | 5 | 12...30 | — | — | — |
| courant d'utilisation sans charge [mA] | 120 | 100 | 100 | 40 | 80 | 80 |
| nbre d'impulsions par tour | 1024 | | | | | |
| positions de rotation | — | — | — | — | 15 bit | 15 bit |
| révolutions | — | — | — | — | — | 12 bit |
| nbre de signaux | 6 (A, B, Z + signaux inversés) | | | 6 (cos-, cos+, sin-, sin+, Z, \bar{Z}) | — | — |
| fréquence max. de sortie [kHz] | 600 | | | 200 | | |
| vitesse max. [min ⁻¹] | 6000 (9000 min ⁻¹ pour 10 s) | | | | | |
| gamme de température de fonctionnement [°C] | -30 ... +100 | | | | | |
| degré de protection | IP 65 | | | | | |



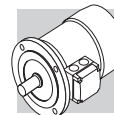
(F 78)

| EN1, EN2, EN3, EN4, EN5, EN6 | |
|------------------------------|--------------------|
| | |
| BN 63...BN 200L | M05...M5 |
| BN 63_FD...BN 200L_FD | M05_FD...M5_FD |
| BN 63_AFD...BN 160MR_AFD | M05_AFD...M4LC_AFD |
| BN 63_FA...BN 200L_FA | M05_FA...M5_FA |

(F 77)

| EN_ + U1 | | |
|-------------------------|-------|-----------|
| | | L3 |
| BN 160M...BN 180M | M5 | 72 |
| BN 180L...BN 200L | - | 82 |
| BN 160M_FD...BN 180M_FD | M5_FD | 35 |
| BN 180L_FD...BN 200L_FD | - | 41 |

Si un codeur (option EN_) est nécessaire sur les moteurs de tailles BN71...BN160MR / M1...M4, en association avec la ventilation forcée (options U1, U2), la variation de dimensions du moteur coïncide avec celle des exécutions U1 et U2 correspondantes.



C_

M11.14 Protection de surface

Lorsqu'aucune classe de protection n'est requise, les surfaces (ferreuses) des moteurs fournissent une protection minimale de classe C2 (UNI EN ISO 12944-2). Afin d'améliorer la résistance à la corrosion atmosphérique, les moteurs peuvent être fournis avec une protection de surface C3 et C4.

| PROTECTION DE SURFACE | Environnements typiques | Température maximum de surface | Classe de corrosivité en accord avec UNI EN ISO 12944-2 |
|-----------------------|--|--------------------------------|---|
| C3 | Environnement urbains et industriels avec jusqu'à 100% d'humidité relative (pollution de l'air moyenne) | 120°C | C3 |
| C4 | Zones industrielles, zones côtières, usines chimiques, avec jusqu'à 100% d'humidité relative (pollution de l'air élevée) | 120°C | C4 |

Les moteurs avec une protection optionnelle en classes C3 ou C4 sont disponibles dans plusieurs teintes.

Si aucune teinte spécifique n'est requise (voir l'option "PEINTURE"), les moteurs seront réalisés en RAL 7042.

Les moteurs peuvent également être fournis avec une protection de surface pour une corrosivité en classe C5 en accord avec UNI EN ISO 12944-2. Contacter notre Service Technique pour plus de détails.

RAL_

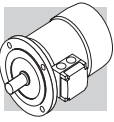
M11.15 Peinture

Les réducteurs avec une protection optionnelle en classe C3 ou C4 sont disponibles dans les teintes indiquées dans la table suivante.

| PEINTURE | Couleur | RAL numéro |
|-----------------|-----------------|------------|
| RAL7042* | Gris trafic A | 7042 |
| RAL5010 | Bleu gentiane | 5010 |
| RAL9005 | Noir foncé | 9005 |
| RAL9006 | Aluminium blanc | 9006 |
| RAL9010 | Blanc pur | 9010 |

* Les réducteurs sont fournis dans cette teinte standard si rien n'est spécifié.

NOTE – Les options "PEINTURE" peuvent seulement être spécifiées en accord avec les options "PROTECTION DE SURFACE".



M11.16 Preuves documentaires

ACM

Certificat de conformité des moteurs

Document dont la délivrance atteste de la conformité du produit à la commande et de la construction de celui-ci conformément aux procédures standard de traitement et de contrôle prévues par le système de Qualité Bonfiglioli Riduttori.

CC

Certificat de réception

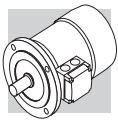
La spécification implique la réalisation de vérifications de conformité à la commande, des contrôles visuels généraux et des vérifications instrumentales des caractéristiques électriques en fonctionnement à vide. La vérification s'applique à un échantillon statistique du lot d'expédition.



M12 DONNEES TECHNIQUES DES MOTEURS

| 2P | | 3000 min ⁻¹ - S1 | | | | | | | | | | | | | | 50 HZ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|----------|-----------------------------|----------------|------|----------|---------|---------|------|---------|-------------------|-------------------|-------------------|-------------------|-------------------------|-------|----------------------------|------|----------------|-------------------------|-------|------|---------|----------------|-------------------------|-------|------|--------|----------------|-------------------------|------------|------|--------|----------------|-------------------------|------|------|--|--|--|--|--|--|--|
| | | frein c.c. | | | | | | | | | | | | | | frein c.c. à entrefer fixe | | | | | | | | | | | | | | frein c.a. | | | | | | | | | | | | | |
| | | FD | | | | | | | AFD | | | | | | | FA | | | | | | | BA | | | | | | | | | | | | | | | | | | | | |
| P _n | | n | M _n | IE1 | η (100%) | η (75%) | η (50%) | cosφ | In 400V | $\frac{I_s}{I_n}$ | $\frac{M_s}{M_n}$ | $\frac{J_m}{M_n}$ | $\frac{M_a}{M_n}$ | $\frac{J_m}{x 10^{-4}}$ | IM B5 | Mod | Mb | Z ₀ | $\frac{J_m}{x 10^{-4}}$ | IM B5 | Mod | Mb | Z ₀ | $\frac{J_m}{x 10^{-4}}$ | IM B5 | Mod | Mb | Z ₀ | $\frac{J_m}{x 10^{-4}}$ | IM B5 | Mod | Mb | Z ₀ | $\frac{J_m}{x 10^{-4}}$ | | | | | | | | | |
| 0.18 | BN 63A | 2 | 2730 | 0.63 | ○ | 59.9 | 56.9 | 51.9 | 0.77 | 0.56 | 3.0 | 2.1 | 2.0 | 2.0 | 3.5 | FD 02 | 1.75 | 3900 | 4800 | 2.6 | 5.2 | AFD 02 | 1.75 | 4800 | 2.6 | 5.0 | FA 02 | 1.75 | 4800 | 2.6 | 5.0 | BA 60 | 5 | 3500 | 4.0 | 5.8 | | | | | | | |
| 0.25 | BN 63B | 2 | 2740 | 0.87 | ○ | 66.0 | 64.8 | 64.8 | 0.76 | 0.72 | 3.3 | 2.3 | 2.3 | 3.9 | 5.6 | FD 02 | 1.75 | 3900 | 4800 | 3.0 | 5.6 | AFD 02 | 1.75 | 4800 | 3.0 | 5.4 | FA 02 | 1.75 | 4800 | 3.0 | 5.4 | BA 60 | 5 | 3600 | 4.3 | 6.2 | | | | | | | |
| 0.37 | BN 63C | 2 | 2800 | 1.26 | ○ | 69.1 | 66.8 | 66.8 | 0.78 | 0.99 | 3.9 | 2.6 | 2.6 | 3.3 | 5.1 | FD 02 | 3.5 | 3600 | 4500 | 3.9 | 6.8 | AFD 02 | 3.5 | 4500 | 3.9 | 6.6 | FA 02 | 3.5 | 4500 | 3.9 | 6.6 | BA 60 | 5 | 3500 | 5.3 | 7.4 | | | | | | | |
| 0.37 | BN 71A | 2 | 2820 | 1.25 | ○ | 73.8 | 73.0 | 70.6 | 0.76 | 0.95 | 4.8 | 2.8 | 2.6 | 3.5 | 5.4 | FD 03 | 3.5 | 3000 | 4100 | 4.6 | 8.1 | AFD 03 | 5 | 4100 | 4.6 | 7.8 | FA 03 | 3.5 | 4200 | 4.6 | 7.8 | BA 70 | 8 | 3500 | 5.5 | 9.3 | | | | | | | |
| 0.55 | BN 71B | 2 | 2820 | 1.86 | ○ | 76.0 | 75.8 | 74.8 | 0.76 | 1.37 | 5.0 | 2.9 | 2.8 | 4.1 | 6.2 | FD 03 | 5 | 2900 | 4200 | 5.3 | 8.9 | AFD 03 | 5 | 4200 | 5.3 | 8.6 | FA 03 | 5 | 4200 | 5.3 | 8.6 | BA 70 | 8 | 3600 | 6.1 | 10.1 | | | | | | | |
| 0.75 | BN 71C | 2 | 2810 | 2.6 | ○ | 76.6 | 76.2 | 76.2 | 0.76 | 1.86 | 5.1 | 3.1 | 2.8 | 5.0 | 7.3 | FD 03 | 5 | 1900 | 3300 | 6.1 | 10.0 | AFD 03 | 7.5 | 3300 | 6.1 | 9.7 | FA 03 | 5 | 3600 | 6.1 | 9.7 | BA 70 | 8 | 3200 | 7.0 | 11.2 | | | | | | | |
| 0.75 | BN 80A | 2 | 2810 | 2.6 | ● | 76.2 | 75.5 | 68.3 | 0.81 | 1.75 | 4.8 | 2.6 | 2.2 | 7.8 | 8.6 | FD 04 | 5 | 1700 | 3200 | 9.4 | 12.5 | AFD 04 | 5 | 3200 | 9.4 | 12.1 | FA 04 | 5 | 3200 | 9.4 | 12.4 | BA 80 | 18 | 2800 | 10.8 | 13.9 | | | | | | | |
| 1.1 | BN 80B | 2 | 2800 | 3.8 | ● | 76.4 | 76.2 | 75.0 | 0.81 | 2.57 | 4.8 | 2.8 | 2.4 | 9.0 | 9.5 | FD 04 | 10 | 1500 | 3000 | 10.6 | 13.4 | AFD 04 | 10 | 3000 | 10.6 | 13.0 | FA 04 | 10 | 3000 | 10.6 | 13.3 | BA 80 | 18 | 2700 | 12.0 | 14.8 | | | | | | | |
| 1.5 | BN 80C | 2 | 2800 | 5.1 | ● | 79.1 | 79.5 | 77.2 | 0.81 | 3.4 | 4.9 | 2.7 | 2.4 | 11.4 | 11.3 | FD 04 | 15 | 1300 | 2600 | 13.0 | 15.2 | AFD 04 | 15 | 2600 | 13.0 | 14.8 | FA 04 | 15 | 2600 | 13.0 | 15.1 | BA 80 | 18 | 2400 | 14.4 | 16.6 | | | | | | | |
| 1.5 | BN 90SA | 2 | 2870 | 5.0 | ● | 82.0 | 81.5 | 78.1 | 0.80 | 3.4 | 5.9 | 2.7 | 2.6 | 12.5 | 12.3 | FD 14 | 15 | 900 | 2200 | 14.1 | 16.5 | AFD 14 | 15 | 2200 | 14.1 | 16.1 | FA 14 | 15 | 2200 | 14.1 | 16.4 | BA 90 | 35 | 1600 | 19.5 | 19.6 | | | | | | | |
| 1.85 | BN 90SB | 2 | 2880 | 6.1 | ● | 82.5 | 82.0 | 75.4 | 0.80 | 4.0 | 6.2 | 2.9 | 2.6 | 16.7 | 14 | FD 14 | 15 | 900 | 2200 | 18.3 | 18.2 | AFD 14 | 15 | 2200 | 18.3 | 17.8 | FA 14 | 15 | 2200 | 18.3 | 18.1 | BA 90 | 35 | 1700 | 23.7 | 21.3 | | | | | | | |
| 2.2 | BN 90L | 2 | 2880 | 7.3 | ● | 82.7 | 82.1 | 80.8 | 0.80 | 4.8 | 6.3 | 2.9 | 2.7 | 16.7 | 14 | FD 05 | 26 | 900 | 2200 | 21 | 20 | AFD 05 | 26 | 2200 | 21 | 19.4 | FA 05 | 26 | 2200 | 21 | 20.7 | BA 90 | 35 | 1700 | 24 | 21.3 | | | | | | | |
| 3 | BN 100L | 2 | 2860 | 10.0 | ● | 81.5 | 81.3 | 77.4 | 0.79 | 6.7 | 5.6 | 2.6 | 2.2 | 31 | 20 | FD 15 | 26 | 700 | 1600 | 35 | 26 | AFD 15 | 26 | 1600 | 35 | 25 | FA 15 | 26 | 1600 | 35 | 27 | BA 100 | 50 | 1300 | 43 | 30 | | | | | | | |
| 4 | BN 100LB | 2 | 2870 | 13.3 | ● | 83.1 | 83.0 | 77.8 | 0.80 | 8.7 | 5.8 | 2.7 | 2.5 | 39 | 23 | FD 15 | 40 | 450 | 900 | 43 | 29 | AFD 15 | 40 | 900 | 43 | 28 | FA 15 | 40 | 1000 | 43 | 30 | BA 100 | 50 | 850 | 51 | 33 | | | | | | | |
| 4 | BN 112M | 2 | 2900 | 13.2 | ● | 85.5 | 84.5 | 83.0 | 0.82 | 8.2 | 6.9 | 3.0 | 2.9 | 57 | 28 | FD 06S | 40 | — | 950 | 66 | 39 | AFD 06S | 40 | 950 | 66 | 38 | FA 06S | 40 | 950 | 66 | 40 | BA 110 | 75 | 850 | 73 | 41 | | | | | | | |
| 5.5 | BN 132SA | 2 | 2890 | 18.2 | ● | 84.7 | 84.5 | 81.2 | 0.84 | 11.2 | 5.9 | 2.6 | 2.2 | 101 | 35 | FD 06 | 50 | — | 600 | 112 | 48 | AFD 06 | 62 | 600 | 112 | 47 | FA 06 | 50 | 600 | 112 | 49 | BA 140 | 150 | 500 | 151 | 67 | | | | | | | |
| 7.5 | BN 132SB | 2 | 2900 | 25 | ● | 86.5 | 86.3 | 84.4 | 0.85 | 14.7 | 6.4 | 2.6 | 2.2 | 145 | 42 | FD 06 | 50 | — | 550 | 154 | 55 | AFD 06 | 62 | 550 | 154 | 54 | FA 06 | 50 | 550 | 154 | 56 | BA 140 | 150 | 450 | 195 | 74 | | | | | | | |
| 9.2 | BN 132M | 2 | 2930 | 30 | ● | 87.0 | 86.5 | 83.6 | 0.86 | 17.7 | 6.7 | 2.8 | 2.3 | 178 | 53 | FD 56 | 75 | — | 430 | 189 | 66 | AFD 06 | 75 | 430 | 189 | 65 | FA 06 | 75 | 430 | 189 | 67 | BA 140 | 150 | 400 | 228 | 85 | | | | | | | |
| 11 | BN 160MR | 2 | 2920 | 36 | ● | 87.6 | 87.0 | 86.0 | 0.88 | 20.6 | 6.9 | 2.9 | 2.5 | 210 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | BN 160MB | 2 | 2930 | 49 | ● | 89.6 | 89.4 | 88.0 | 0.86 | 28.1 | 7.1 | 2.6 | 2.3 | 340 | 84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18.5 | BN 160L | 2 | 2930 | 60 | ● | 90.4 | 90.1 | 89.0 | 0.86 | 34 | 7.6 | 2.7 | 2.3 | 420 | 97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | BN 180M | 2 | 2930 | 72 | ● | 89.9 | 89.7 | 89.5 | 0.88 | 40 | 7.8 | 2.6 | 2.4 | 490 | 109 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | BN 200LA | 2 | 2930 | 98 | ● | 90.7 | 90.1 | 87.6 | 0.89 | 54 | 7.8 | 2.7 | 2.9 | 770 | 140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

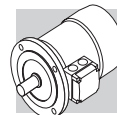
○ = n.a. ● = IE1



4P **1500 min-1 - S1** **50 Hz**

| P _n kW | n min ⁻¹ | M _h Nm | IE1 | η (100%) % | η (75%) % | η (50%) % | cosφ | In 400V A | Is In % | Ms Mn % | Ma Mn % | frein c.c. | | | | frein c.c. à entrefer fixe | | | | frein c.a. | | | | | | | | | | | | | | | | |
|----------------------|------------------------|----------------------|------|------------------|-----------------|-----------------|------|-----------------|---------------|---------------|---------------|------------|-----------------------|--|-------------|----------------------------|-----------------------|--|-------------|------------|-----------------------|--|-------------|----------|-----------------------|--|-------------|----------|-----------------------|--|-------------|--------|------|------|------|----|
| | | | | | | | | | | | | FD | | AFD | | FA | | BA | | FD | | AFD | | FA | | BA | | | | | | | | | | |
| | | | | | | | | | | | | Mb Nm | Z ₀ 1/h | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | Mb Nm | Z ₀ 1/h | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | Mb Nm | Z ₀ 1/h | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | Mb Nm | Z ₀ 1/h | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | Mb Nm | Z ₀ 1/h | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | | | | | |
| 0.06 | BN 56A | 4 | 1340 | 0.43 | ○ | 46.8 | 44.2 | 41.3 | 0.65 | 0.28 | 2.6 | 2.0 | 1.5 | 3.1 | 1.75 | 10000 | 13000 | 2.6 | 5.2 | AFD 02 | 1.75 | 13000 | 2.6 | 5.0 | FA 02 | 1.75 | 13000 | 2.6 | 5.0 | BA 60 | 5.0 | 9000 | 4.0 | 5.8 | | |
| 0.09 | BN 56B | 4 | 1350 | 0.64 | ○ | 51.7 | 47.6 | 42.9 | 0.60 | 0.42 | 2.6 | 2.5 | 1.5 | 3.1 | 3.5 | 10000 | 13000 | 3.0 | 5.6 | AFD 02 | 3.5 | 13000 | 3.0 | 5.4 | FA 02 | 3.5 | 13000 | 3.0 | 5.4 | BA 60 | 5.0 | 9000 | 4.3 | 6.2 | | |
| 0.12 | BN 63A | 4 | 1350 | 0.85 | ○ | 59.8 | 56.2 | 47.0 | 0.62 | 0.47 | 2.6 | 1.9 | 1.8 | 2.0 | 3.5 | 7800 | 10000 | 3.9 | 6.8 | AFD 02 | 3.5 | 10000 | 3.9 | 6.6 | FA 02 | 3.5 | 10000 | 3.9 | 6.6 | BA 60 | 5.0 | 8500 | 5.3 | 7.4 | | |
| 0.18 | BN 63B | 4 | 1320 | 1.30 | ○ | 54.8 | 52.9 | 52.5 | 0.67 | 0.71 | 2.6 | 2.2 | 2.0 | 2.3 | 3.9 | 5 | 6000 | 9400 | 8.0 | 8.6 | AFD 03 | 5 | 9400 | 8.0 | 8.3 | FA 03 | 5.0 | 9400 | 8.0 | 8.3 | BA 70 | 8.0 | 8500 | 8.9 | 9.8 | |
| 0.25 | BN 63C | 4 | 1340 | 1.78 | ○ | 65.3 | 65.0 | 57.9 | 0.69 | 0.80 | 2.7 | 2.1 | 1.9 | 3.3 | 5.1 | 3.5 | 4300 | 8700 | 10.2 | 10.0 | AFD 03 | 7.5 | 8700 | 10.2 | 9.7 | FA 03 | 7.5 | 8700 | 10.2 | 9.7 | BA 70 | 8.0 | 8000 | 11.1 | 11.2 | |
| 0.25 | BN 71A | 4 | 1380 | 1.73 | ○ | 63.7 | 62.2 | 59.1 | 0.73 | 0.78 | 3.3 | 1.9 | 1.7 | 5.8 | 5.1 | 3.5 | 7700 | 11000 | 6.9 | 7.8 | AFD 03 | 5 | 11000 | 6.9 | 7.5 | FA 03 | 3.5 | 11000 | 6.9 | 7.5 | BA 70 | 8.0 | 9700 | 7.8 | 9.0 | |
| 0.37 | BN 71B | 4 | 1370 | 2.6 | ○ | 66.8 | 66.7 | 63.0 | 0.76 | 1.05 | 3.7 | 2.0 | 1.9 | 6.9 | 5.9 | 5 | 6000 | 9400 | 8.0 | 8.6 | AFD 03 | 5 | 9400 | 8.0 | 8.3 | FA 03 | 5.0 | 9400 | 8.0 | 8.3 | BA 70 | 8.0 | 8500 | 8.9 | 9.8 | |
| 0.55 | BN 71C | 4 | 1380 | 3.8 | ○ | 69.0 | 68.9 | 68.8 | 0.74 | 1.55 | 4.1 | 2.3 | 2.3 | 9.1 | 7.3 | 7.5 | 4300 | 8700 | 10.2 | 10.0 | AFD 03 | 7.5 | 8700 | 10.2 | 9.7 | FA 03 | 7.5 | 8700 | 10.2 | 9.7 | BA 70 | 8.0 | 8000 | 11.1 | 11.2 | |
| 0.55 | BN 80A | 4 | 1390 | 3.8 | ○ | 72.0 | 71.3 | 69.7 | 0.77 | 1.43 | 4.1 | 2.3 | 2.0 | 15 | 8.2 | 10 | 4100 | 8000 | 16.6 | 12.1 | AFD 04 | 10 | 8000 | 16.6 | 11.7 | FA 04 | 10 | 8000 | 16.6 | 12.0 | BA 80 | 18 | 7400 | 18 | 13.5 | |
| 0.75 | BN 80B | 4 | 1400 | 5.1 | ● | 75.0 | 74.5 | 69.3 | 0.78 | 1.85 | 4.9 | 2.7 | 2.5 | 20 | 9.9 | 15 | 4100 | 7800 | 22 | 13.8 | AFD 04 | 15 | 7800 | 22 | 13.4 | FA 04 | 15 | 7800 | 22 | 13.7 | BA 80 | 18 | 7400 | 23 | 15.2 | |
| 1.1 | BN 80C | 4 | 1400 | 7.5 | ● | 75.5 | 76.2 | 70.4 | 0.78 | 2.7 | 5.1 | 2.8 | 2.5 | 25 | 11.3 | 15 | 2800 | 5300 | 27 | 15.2 | AFD 04 | 15 | 5300 | 27 | 14.8 | FA 04 | 15 | 5300 | 27 | 15.1 | BA 80 | 18 | 5100 | 28 | 16.6 | |
| 1.1 | BN 90S | 4 | 1390 | 7.6 | ● | 76.5 | 76.2 | 72.2 | 0.77 | 2.70 | 4.6 | 2.6 | 2.2 | 21 | 12.2 | 15 | 4800 | 8000 | 23 | 16.4 | AFD 14 | 15 | 8000 | 23 | 16 | FA 14 | 15 | 8000 | 23 | 16.3 | BA 90 | 35 | 6500 | 28 | 19.5 | |
| 1.5 | BN 90LA | 4 | 1410 | 10.2 | ● | 78.7 | 78.5 | 74.9 | 0.77 | 3.6 | 5.3 | 2.8 | 2.4 | 28 | 13.6 | 26 | 3400 | 6000 | 32 | 19.6 | AFD 05 | 26 | 6000 | 32 | 19 | FA 05 | 26 | 6000 | 32 | 20.3 | BA 90 | 35 | 5400 | 35 | 21.0 | |
| 1.85 | BN 90LB | 4 | 1390 | 12.7 | ● | 78.6 | 78.9 | 77.2 | 0.79 | 4.3 | 5.1 | 2.8 | 2.6 | 30 | 15.1 | 26 | 3200 | 5900 | 34 | 21.1 | AFD 05 | 26 | 5900 | 34 | 20.5 | FA 05 | 26 | 5900 | 34 | 21.8 | BA 90 | 35 | 5400 | 37 | 22.5 | |
| 2.2 | BN 100LA | 4 | 1410 | 14.9 | ● | 81.1 | 81.4 | 79.9 | 0.75 | 5.2 | 4.5 | 2.2 | 2.0 | 40 | 18 | 40 | 2600 | 4700 | 44 | 25 | AFD 15 | 40 | 4700 | 44 | 24.4 | FA 15 | 40 | 4700 | 44 | 25 | BA 100 | 50 | 4000 | 52 | 29 | |
| 3 | BN 100LB | 4 | 1410 | 20 | ● | 82.6 | 83.8 | 83.7 | 0.77 | 6.8 | 5.0 | 2.3 | 2.2 | 54 | 22 | 40 | 2400 | 4400 | 58 | 28 | AFD 15 | 40 | 4400 | 58 | 27 | FA 15 | 40 | 4400 | 58 | 29 | BA 100 | 50 | 3800 | 66 | 32 | |
| 4 | BN 112M | 4 | 1430 | 27 | ● | 84.4 | 84.2 | 81.6 | 0.81 | 8.4 | 5.6 | 2.7 | 2.5 | 98 | 30 | 60 | — | 1400 | 107 | 40 | 39 | AFD 06S | 60 | 2100 | 107 | 42 | FA 06S | 60 | 2100 | 107 | 42 | BA 110 | 75 | 2000 | 114 | 43 |
| 5.5 | BN 132S | 4 | 1440 | 36 | ● | 84.8 | 84.8 | 82.5 | 0.81 | 11.6 | 5.5 | 2.3 | 2.2 | 213 | 44 | 75 | — | 1050 | 223 | 57 | 56 | AFD 06 | 75 | 1200 | 223 | 58 | FA 06 | 75 | 1200 | 223 | 58 | BA 140 | 150 | 1200 | 263 | 76 |
| 7.5 | BN 132MA | 4 | 1440 | 50 | ● | 86.0 | 86.3 | 85.3 | 0.81 | 15.5 | 5.7 | 2.5 | 2.4 | 270 | 53 | 100 | — | 950 | 280 | 66 | 65 | AFD 06 | 100 | 1000 | 280 | 71 | FA 07 | 100 | 1000 | 280 | 71 | BA 140 | 150 | 1000 | 320 | 85 |
| 9.2 | BN 132MB | 4 | 1440 | 61 | ● | 88.4 | 88.6 | 87.5 | 0.81 | 18.8 | 5.9 | 2.7 | 2.5 | 319 | 59 | 150 | — | 900 | 342 | 75 | 73 | AFD 07 | 150 | 900 | 342 | 77 | FA 07 | 150 | 900 | 342 | 77 | BA 140 | 150 | 900 | 369 | 91 |
| 11 | BN 160MR | 4 | 1440 | 73 | ● | 87.6 | 87.8 | 86.0 | 0.81 | 22.4 | 6.0 | 2.7 | 2.5 | 360 | 70 | 150 | — | 850 | 382 | 86 | 84 | AFD 07 | 150 | 850 | 382 | 88 | FA 07 | 150 | 850 | 382 | 88 | — | — | — | — | — |
| 15 | BN 160L | 4 | 1460 | 98 | ● | 88.7 | 88.5 | 88.4 | 0.81 | 30 | 6.0 | 2.3 | 2.1 | 650 | 99 | 200 | — | 750 | 725 | 129 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | |
| 18.5 | BN 180M | 4 | 1460 | 121 | ● | 89.3 | 89.5 | 89.2 | 0.81 | 37 | 6.2 | 2.6 | 2.5 | 790 | 115 | 250 | — | 700 | 865 | 145 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 22 | BN 180L | 4 | 1460 | 144 | ● | 89.9 | 90.0 | 90.0 | 0.80 | 44 | 6.4 | 2.5 | 2.5 | 1250 | 135 | 300 | — | 400 | 1450 | 175 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 30 | BN 200L | 4 | 1460 | 196 | ● | 91.4 | 91.7 | 91.0 | 0.80 | 59 | 7.1 | 2.7 | 2.8 | 1650 | 157 | 400 | — | 300 | 1850 | 197 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

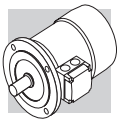
○ = n.a. ● = IE1



6P **1000 min⁻¹ - S1** **50 HZ**

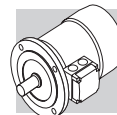
| P _n kW | n min ⁻¹ | M _n Nm | IE1 | η (100%) % | η (75%) % | η (50%) % | cosφ | In 400V A | I _s I _n | M _s M _n | M _a M _n | frein c.c. | | | | | | frein c.c. à entrefer fixe | | | | | | frein c.a. | | | | | | | | | | | |
|----------------------|------------------------|----------------------|-----|------------------|-----------------|-----------------|------|-----------------|----------------------------------|----------------------------------|----------------------------------|-------------|--|-----------------------|----------|------|----------|----------------------------|----------|-------------|--|-----------------------|----------|------------|----------|-------------|--|-----------------------|----------|--------|----------|-------------|--|-----------------------|----------|
| | | | | | | | | | | | | FD | | | | | | AFD | | | | | | FA | | | | | | BA | | | | | |
| | | | | | | | | | | | | IM B5 Kg | J _m x 10 ⁻⁴ kgm ² | Z ₀ 1/h | Mb Nm | Mod | Mb Nm | Mod | Mb Nm | IM B5 Kg | J _m x 10 ⁻⁴ kgm ² | Z ₀ 1/h | Mb Nm | Mod | Mb Nm | IM B5 Kg | J _m x 10 ⁻⁴ kgm ² | Z ₀ 1/h | Mb Nm | Mod | Mb Nm | IM B5 Kg | J _m x 10 ⁻⁴ kgm ² | Z ₀ 1/h | Mb Nm |
| 0.09 | BN 63A | 6 | 880 | 0.98 | ○ | 41.0 | 32.9 | 0.53 | 0.60 | 2.1 | 1.8 | 3.4 | 4.6 | FD 02 | 3.5 | 9000 | 14000 | 4.0 | 6.3 | AFD 02 | 3.5 | 14000 | 4.0 | 6.1 | FA 02 | 3.5 | 14000 | 4.0 | 6.1 | BA 60 | 5.0 | 12000 | 5.4 | 6.9 | |
| 0.12 | BN 63B | 6 | 870 | 1.32 | ○ | 45.0 | 41.8 | 0.60 | 0.64 | 2.1 | 1.7 | 3.7 | 4.9 | FD 02 | 3.5 | 9000 | 14000 | 4.3 | 6.6 | AFD 02 | 3.5 | 14000 | 4.3 | 6.4 | FA 02 | 3.5 | 14000 | 4.3 | 6.4 | BA 60 | 5.0 | 12000 | 5.7 | 7.2 | |
| 0.18 | BN 71A | 6 | 900 | 1.91 | ○ | 55.0 | 51.0 | 0.69 | 0.68 | 2.6 | 1.9 | 1.7 | 8.4 | FD 03 | 5 | 8100 | 13500 | 9.5 | 8.2 | AFD 03 | 5 | 13500 | 9.5 | 7.9 | FA 03 | 5.0 | 13500 | 9.5 | 7.9 | BA 70 | 8.0 | 12300 | 10.4 | 9.4 | |
| 0.25 | BN 71B | 6 | 900 | 2.70 | ○ | 62.0 | 58.5 | 0.71 | 0.82 | 2.6 | 1.9 | 1.7 | 10.9 | FD 03 | 5 | 7800 | 13000 | 12 | 9.4 | AFD 03 | 5 | 13000 | 12 | 9.1 | FA 03 | 5.0 | 13000 | 12 | 9.1 | BA 70 | 8.0 | 12000 | 12.9 | 10.6 | |
| 0.37 | BN 71C | 6 | 910 | 3.9 | ○ | 66.0 | 60.0 | 0.69 | 1.17 | 3.0 | 2.4 | 2.0 | 12.9 | FD 53 | 7.5 | 5100 | 9500 | 14 | 10.4 | AFD 03 | 7.5 | 9500 | 14 | 10.1 | FA 03 | 7.5 | 9500 | 14 | 10.1 | BA 70 | 8.0 | 8900 | 14.9 | 11.6 | |
| 0.37 | BN 80A | 6 | 910 | 3.9 | ○ | 68.0 | 67.4 | 0.68 | 1.15 | 3.2 | 2.2 | 2.0 | 21 | FD 04 | 10 | 5200 | 8500 | 23 | 13.8 | AFD 04 | 10 | 8500 | 23 | 13.4 | FA 04 | 10 | 8500 | 23 | 13.7 | BA 80 | 18 | 8000 | 24 | 15.2 | |
| 0.55 | BN 80B | 6 | 920 | 5.7 | ○ | 70.0 | 69.8 | 0.68 | 1.67 | 3.9 | 2.6 | 2.2 | 25 | FD 04 | 15 | 4800 | 7200 | 27 | 15.2 | AFD 04 | 15 | 7200 | 27 | 14.8 | FA 04 | 15 | 7200 | 27 | 15.1 | BA 80 | 18 | 6800 | 28 | 16.6 | |
| 0.75 | BN 80C | 6 | 920 | 7.8 | ● | 70.0 | 70.0 | 0.65 | 2.38 | 3.8 | 2.5 | 2.2 | 28 | FD 04 | 15 | 3400 | 6400 | 30 | 16.1 | AFD 04 | 15 | 6400 | 30 | 15.7 | FA 04 | 15 | 6400 | 30 | 16.0 | BA 80 | 18 | 6100 | 31 | 17.5 | |
| 0.75 | BN 90S | 6 | 920 | 7.8 | ● | 70.0 | 69.0 | 0.68 | 2.27 | 3.8 | 2.4 | 2.2 | 26 | FD 14 | 15 | 3400 | 6500 | 28 | 16.8 | AFD 14 | 15 | 6500 | 28 | 16.4 | FA 14 | 15 | 6500 | 28 | 16.7 | BA 90 | 35 | 5500 | 33 | 19.9 | |
| 1.1 | BN 90L | 6 | 920 | 11.4 | ● | 72.9 | 72.6 | 0.69 | 3.2 | 3.9 | 2.3 | 2.0 | 33 | FD 05 | 26 | 2700 | 5000 | 37 | 21 | AFD 05 | 26 | 5000 | 37 | 20 | FA 05 | 26 | 5000 | 37 | 22 | BA 90 | 35 | 4600 | 40 | 22 | |
| 1.5 | BN 100LA | 6 | 940 | 15.2 | ● | 75.2 | 74.2 | 0.72 | 4.0 | 4.1 | 2.1 | 2.0 | 82 | FD 15 | 40 | 1900 | 4100 | 86 | 28 | AFD 15 | 40 | 4100 | 86 | 27 | FA 15 | 40 | 4100 | 86 | 29 | BA 100 | 50 | 3800 | 94 | 32 | |
| 1.85 | BN 100LB | 6 | 930 | 19.0 | ● | 76.6 | 72.8 | 0.73 | 4.8 | 4.6 | 2.1 | 2.0 | 95 | FD 15 | 40 | 1700 | 3600 | 99 | 30 | AFD 15 | 40 | 3600 | 99 | 29 | FA 15 | 40 | 3600 | 99 | 31 | BA 100 | 50 | 3400 | 107 | 34 | |
| 2.2 | BN 112M | 6 | 940 | 22 | ● | 78.5 | 79.0 | 0.73 | 5.5 | 4.8 | 2.2 | 2.0 | 168 | FD 06S | 60 | — | 2100 | 177 | 42 | AFD 06S | 60 | 2100 | 177 | 41 | FA 06S | 60 | 2100 | 177 | 44 | BA 110 | 75 | 2000 | 184 | 45 | |
| 3 | BN 132S | 6 | 940 | 30 | ● | 79.7 | 77.0 | 0.76 | 7.1 | 5.1 | 1.9 | 1.8 | 216 | FD 56 | 75 | — | 1400 | 226 | 49 | AFD 06 | 75 | 1400 | 226 | 48 | FA 06 | 75 | 1400 | 226 | 50 | BA 140 | 150 | 1200 | 266 | 68 | |
| 4 | BN 132MA | 6 | 950 | 40 | ● | 81.4 | 81.5 | 0.77 | 9.2 | 5.5 | 2.0 | 1.8 | 295 | FD 06 | 100 | — | 1200 | 305 | 58 | AFD 06 | 100 | 1200 | 305 | 57 | FA 07 | 100 | 1200 | 318 | 63 | BA 140 | 150 | 1050 | 345 | 77 | |
| 5.5 | BN 132MB | 6 | 945 | 56 | ● | 83.1 | 80.9 | 0.78 | 12.2 | 6.1 | 2.1 | 1.9 | 383 | FD 07 | 150 | — | 1050 | 406 | 72 | AFD 07 | 150 | 1050 | 406 | 70 | FA 07 | 150 | 1050 | 406 | 74 | BA 140 | 150 | 1000 | 433 | 88 | |
| 7.5 | BN 160M | 6 | 955 | 75 | ● | 85.0 | 85.0 | 0.81 | 15.7 | 5.9 | 2.2 | 2.0 | 740 | FD 08 | 170 | — | 900 | 815 | 112 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 11 | BN 160L | 6 | 960 | 109 | ● | 86.4 | 86.5 | 0.81 | 22.7 | 6.6 | 2.5 | 2.3 | 970 | FD 08 | 200 | — | 800 | 1045 | 133 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 15 | BN 180L | 6 | 970 | 148 | ● | 87.7 | 88.0 | 0.82 | 30 | 6.2 | 2.0 | 2.4 | 1550 | FD 09 | 300 | — | 600 | 1750 | 170 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 18.5 | BN 200LA | 6 | 960 | 184 | ● | 88.6 | 88.0 | 0.81 | 37 | 5.9 | 2.0 | 2.3 | 1700 | FD 09 | 400 | — | 450 | 1900 | 185 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

○ = n.a. ● = IE1







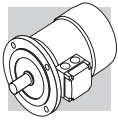
2/4P **3000/1500 min⁻¹ - S1** **50 Hz**

| P _n kW | Image | n min ⁻¹ | M _h Nm | η % | cosφ | I _n 400V A | I _s in A | M _s M _n | M _a M _n | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | frein c.c. | | | | | | | | | | frein c.c. à entrefer fixe | | | | | | | | | | frein c.a. | | | | | | | | | |
|----------------------|-----------------|------------------------|----------------------|--------|------|-----------------------------|---------------------------|----------------------------------|----------------------------------|--|-------------|------------|----------|-----------------------------|--|-------------|-----|----------|-----------------------------|--|-------------|----------------------------|----------|-----------------------|--|-------------|------|------------------|-----------------------|--|-------------|------------|------------------|-----------------------|--|-------------|-----|------------------|-----------------------|--|-------------|
| | | | | | | | | | | | | FD | | | | | AFD | | | | | FA | | | | | BA | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Mod | Mb Nm | Z ₀ 1/h SB | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | Mod | Mb Nm | Z ₀ 1/h SB | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | Mod | Mb Nm | Z ₀ 1/h | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | Mod | Mb max. Nm | Z ₀ 1/h | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | Mod | Mb max. Nm | Z ₀ 1/h | J _m x 10 ⁻⁴ kgm ² | IM B5 kg | Mod | Mb max. Nm | Z ₀ 1/h | J _m x 10 ⁻⁴ kgm ² | IM B5 kg |
| 0.20 | BN 63B | 2 | 2700 | 0.71 | 55 | 0.82 | 0.64 | 3.5 | 1.9 | 2.9 | 4.4 | FD 02 | 3.5 | 2200 | 2600 | 5100 | 3.5 | 2600 | 5100 | 5.9 | FA 02 | 3.5 | 2600 | 5100 | 3.5 | 2600 | 5100 | 5.9 | BA 60 | 5.0 | 2000 | 4000 | 4.9 | 6.7 | | | | | | | |
| 0.15 | | 4 | 1350 | 1.06 | 49 | 0.67 | 0.66 | 2.6 | 1.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.28 | BN 71A | 2 | 2700 | 0.99 | 56 | 0.82 | 0.88 | 2.9 | 1.7 | 4.7 | 4.4 | FD 03 | 3.5 | 2100 | 2400 | 4800 | 5 | 2400 | 4800 | 6.8 | FA 03 | 3.5 | 2400 | 4800 | 5.8 | FA 03 | 3.5 | 2400 | 4800 | 6.8 | BA 70 | 8.0 | 2100 | 5.6 | 8.3 | | | | | | |
| 0.20 | | 4 | 1370 | 1.39 | 59 | 0.72 | 0.68 | 3.1 | 1.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.37 | BN 71B | 2 | 2740 | 1.29 | 56 | 0.82 | 1.16 | 3.5 | 1.8 | 5.8 | 5.1 | FD 03 | 5.0 | 1400 | 2100 | 4200 | 5 | 2100 | 4200 | 7.5 | FA 03 | 5.0 | 2100 | 4200 | 6.9 | FA 03 | 5.0 | 2100 | 4200 | 7.5 | BA 70 | 8.0 | 1800 | 7.8 | 9.0 | | | | | | |
| 0.25 | | 4 | 1390 | 1.72 | 60 | 0.73 | 0.82 | 3.3 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.45 | BN 71C | 2 | 2780 | 1.55 | 63 | 0.85 | 1.21 | 3.8 | 1.8 | 6.9 | 5.9 | FD 03 | 5.0 | 1400 | 2100 | 4200 | 5 | 2100 | 4200 | 8.3 | FA 03 | 5.0 | 2100 | 4200 | 8.0 | FA 03 | 5.0 | 2100 | 4200 | 8.3 | BA 70 | 8.0 | 1800 | 8.9 | 9.8 | | | | | | |
| 0.30 | | 4 | 1400 | 2.0 | 63 | 0.73 | 0.94 | 3.6 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.55 | BN 80A | 2 | 2800 | 1.9 | 63 | 0.85 | 1.48 | 3.9 | 1.7 | 15 | 8.2 | FD 04 | 5.0 | 1600 | 2300 | 4000 | 5 | 2300 | 4000 | 11.7 | FA 04 | 5.0 | 2300 | 4000 | 16.6 | FA 04 | 5.0 | 2300 | 4000 | 12.0 | BA 80 | 18 | 2100 | 18 | 13.5 | | | | | | |
| 0.37 | | 4 | 1400 | 2.5 | 67 | 0.79 | 1.01 | 4.1 | 1.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | BN 80B | 2 | 2780 | 2.6 | 65 | 0.85 | 1.96 | 3.8 | 1.9 | 20 | 9.9 | FD 04 | 10 | 1400 | 1600 | 3600 | 10 | 1600 | 3600 | 13.4 | FA 04 | 10 | 1600 | 3600 | 22 | FA 04 | 10 | 1600 | 3600 | 13.7 | BA 80 | 18 | 1500 | 22 | 15.2 | | | | | | |
| 0.55 | | 4 | 1400 | 3.8 | 68 | 0.81 | 1.44 | 3.9 | 1.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | BN 90S | 2 | 2790 | 3.8 | 71 | 0.82 | 2.73 | 4.7 | 2.3 | 21 | 12.2 | FD 14 | 10 | 1500 | 1600 | 2300 | 10 | 1600 | 2300 | 16.4 | FA 14 | 10 | 1600 | 2300 | 23 | FA 14 | 10 | 1600 | 2300 | 16.3 | BA 90 | 35 | 1300 | 28 | 19.5 | | | | | | |
| 0.75 | | 4 | 1390 | 5.2 | 66 | 0.79 | 2.08 | 4.6 | 2.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | BN 90L | 2 | 2780 | 5.2 | 70 | 0.85 | 3.64 | 4.5 | 2.4 | 28 | 14.0 | FD 05 | 26 | 1050 | 1200 | 2000 | 26 | 1200 | 2000 | 19.4 | FA 05 | 26 | 1200 | 2000 | 32 | FA 05 | 26 | 1200 | 2000 | 21 | BA 90 | 35 | 1100 | 35 | 21 | | | | | | |
| 1.1 | | 4 | 1390 | 7.6 | 73 | 0.81 | 2.69 | 4.7 | 2.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2 | BN 100LA | 2 | 2800 | 7.5 | 72 | 0.85 | 5.2 | 4.5 | 2.0 | 40 | 18.3 | FD 15 | 26 | 600 | 900 | 1300 | 26 | 900 | 1300 | 24.4 | FA 15 | 26 | 900 | 1300 | 44 | FA 15 | 26 | 900 | 1300 | 25 | BA 100 | 50 | 750 | 51 | 29 | | | | | | |
| 1.5 | | 4 | 1410 | 10.2 | 73 | 0.79 | 3.8 | 4.7 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 | BN 100LB | 2 | 2850 | 11.7 | 80 | 0.84 | 7.5 | 5.4 | 2.2 | 61 | 25 | FD 15 | 40 | 500 | 900 | 1000 | 40 | 900 | 1000 | 30 | FA 15 | 40 | 900 | 1000 | 65 | FA 15 | 40 | 900 | 1000 | 32 | BA 100 | 50 | 750 | 72 | 35 | | | | | | |
| 2.5 | | 4 | 1420 | 16.8 | 82 | 0.80 | 5.5 | 5.2 | 2.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | BN 112M | 2 | 2880 | 13.3 | 79 | 0.83 | 8.8 | 6.1 | 2.4 | 98 | 30 | FD 06S | 60 | — | 700 | 107 | 60 | 700 | 107 | 39 | FA 06S | 60 | 700 | 107 | 107 | FA 06S | 60 | 700 | 107 | 42 | BA 110 | 75 | 600 | 114 | 43 | | | | | | |
| 3.3 | | 4 | 1420 | 22.2 | 80 | 0.80 | 7.4 | 5.1 | 2.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5 | BN 132S | 2 | 2890 | 18.2 | 80 | 0.87 | 11.4 | 5.9 | 2.4 | 213 | 44 | FD 56 | 75 | — | 350 | 223 | 75 | 350 | 223 | 56 | FA 06 | 75 | 350 | 223 | 223 | FA 06 | 75 | 350 | 223 | 58 | BA 140 | 150 | 300 | 263 | 76 | | | | | | |
| 4.4 | | 4 | 1440 | 29 | 82 | 0.84 | 9.2 | 5.3 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5 | BN 132MA | 2 | 2900 | 25 | 82 | 0.87 | 15.2 | 6.5 | 2.4 | 270 | 53 | FD 06 | 100 | — | 350 | 280 | 100 | 350 | 280 | 65 | FA 07 | 100 | 350 | 280 | 280 | FA 07 | 100 | 350 | 280 | 71 | BA 140 | 150 | 300 | 320 | 85 | | | | | | |
| 6 | | 4 | 1430 | 40 | 84 | 0.85 | 12.1 | 5.8 | 2.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.2 | BN 132MB | 2 | 2920 | 30 | 83 | 0.86 | 18.6 | 6.0 | 2.2 | 319 | 59 | FD 07 | 150 | — | 300 | 342 | 150 | 300 | 342 | 73 | FA 07 | 150 | 300 | 342 | 342 | FA 07 | 150 | 300 | 342 | 77 | BA 140 | 150 | 300 | 369 | 91 | | | | | | |
| 7.3 | | 4 | 1440 | 48 | 85 | 0.85 | 14.6 | 5.5 | 2.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |







2/8P **3000/750 min⁻¹ - S3 60/40%** **50 Hz**

| P _n kW |  | n min ⁻¹ | M _n Nm | η % | cosφ | In 400V A | Is In | Ms Mn | Ma Mn | frein c.c. | | | | | | | | | | frein c.c. à entrefer fixe | | | | | | frein c.a. | | | | | |
|----------------------|---|------------------------|----------------------|--------|------|-----------------|----------|----------|----------|------------|----------|-----------------------|--|---|------|----------|-----------------------|--|---|----------------------------|----------|-----------------------|--|---|------|------------|------|--|--|--|--|
| | | | | | | | | | | FD | | | | | AFD | | | | | FA | | | | | | | | | | | |
| | | | | | | | | | | Mod | Mb Nm | Z _o 1/h | J _m x 10 ⁻⁴ kgm ² | IMB5  | Mod | Mb Nm | Z _o 1/h | J _m x 10 ⁻⁴ kgm ² | IMB5  | Mod | Mb Nm | Z _o 1/h | J _m x 10 ⁻⁴ kgm ² | IMB5  | | | | | | | |
| 0.37 | M 1LA 2 | 2800 | 1.26 | 63 | 0.86 | 0.99 | 3.9 | 1.8 | 1.9 | 12.9 | 7.3 | FD 03 | 3.5 | 1200 | 1300 | 14 | 10.0 | AFD 03 | 5 | 1300 | 14 | 9.7 | FA 03 | 3.5 | 1300 | 14 | 9.7 | | | | |
| 0.09 | 8 | 670 | 1.28 | 34 | 0.75 | 0.51 | 1.8 | 1.4 | 1.5 | 9500 | 13000 | | | | | | | | | | | | | | | | | | | | |
| 0.55 | M 2SA 2 | 2830 | 1.86 | 66 | 0.86 | 1.40 | 4.4 | 2.1 | 2.0 | 20 | 9.2 | FD 04 | 5 | 1500 | 1800 | 22 | 13.1 | AFD 04 | 5 | 1800 | 22 | 12.7 | FA 04 | 5 | 1800 | 22 | 13.0 | | | | |
| 0.13 | 8 | 690 | 1.80 | 41 | 0.64 | 0.72 | 2.3 | 1.6 | 1.7 | 5600 | 8000 | | | | | | | | | | | | | | | | | | | | |
| 0.75 | M 2SB 2 | 2800 | 2.6 | 68 | 0.88 | 1.81 | 4.6 | 2.1 | 2.0 | 25 | 10.6 | FD 04 | 10 | 1700 | 1900 | 27 | 14.5 | AFD 04 | 10 | 1900 | 27 | 14.1 | FA 04 | 10 | 1900 | 27 | 14.4 | | | | |
| 0.18 | 8 | 690 | 2.5 | 43 | 0.66 | 0.92 | 2.3 | 1.6 | 1.7 | 4800 | 7300 | | | | | | | | | | | | | | | | | | | | |
| 1.1 | M 3SA 2 | 2870 | 3.7 | 69 | 0.84 | 2.74 | 4.6 | 1.8 | 1.7 | 34 | 15.5 | FD 15 | 13 | 1000 | 1300 | 38 | 22 | AFD 15 | 13 | 1300 | 38 | 21.4 | FA 15 | 13 | 1300 | 38 | 23 | | | | |
| 0.28 | 8 | 690 | 3.9 | 44 | 0.56 | 1.64 | 2.3 | 1.4 | 1.7 | 3400 | 5000 | | | | | | | | | | | | | | | | | | | | |
| 1.5 | M 3LA 2 | 2880 | 5.0 | 69 | 0.85 | 3.69 | 4.7 | 1.9 | 1.8 | 40 | 17 | FD 15 | 13 | 1000 | 1200 | 44 | 24 | AFD 15 | 13 | 1200 | 44 | 23.4 | FA 15 | 13 | 1200 | 44 | 24 | | | | |
| 0.37 | 8 | 690 | 5.1 | 46 | 0.63 | 1.84 | 2.1 | 1.6 | 1.6 | 3300 | 5000 | | | | | | | | | | | | | | | | | | | | |
| 2.4 | M 3LB 2 | 2900 | 7.9 | 75 | 0.82 | 5.6 | 5.4 | 2.1 | 2.0 | 61 | 23 | FD 15 | 26 | 550 | 700 | 65 | 29 | AFD 15 | 26 | 700 | 65 | 28 | FA 15 | 26 | 700 | 65 | 30 | | | | |
| 0.55 | 8 | 700 | 7.5 | 54 | 0.58 | 2.5 | 2.6 | 1.8 | 1.8 | 2000 | 3500 | | | | | | | | | | | | | | | | | | | | |
| 3 | M 4SA 2 | 2920 | 9.8 | 72 | 0.85 | 7.1 | 5.6 | 2.0 | 1.8 | 162 | 36 | FD 56 | 37 | — | 600 | 182 | 48 | AFD 06 | 37 | 600 | 182 | 47 | FA 06 | 37 | 600 | 182 | 50 | | | | |
| 0.75 | 8 | 710 | 10.1 | 61 | 0.64 | 2.8 | 3.0 | 1.7 | 1.8 | — | — | | | | | | | | | | | | | | | | | | | | |
| 4 | M 4SB 2 | 2870 | 13.3 | 73 | 0.84 | 9.4 | 5.6 | 2.3 | 2.4 | 213 | 42 | FD 56 | 37 | — | 500 | 223 | 55 | AFD 06 | 37 | 500 | 223 | 54 | FA 06 | 37 | 500 | 223 | 56 | | | | |
| 1 | 8 | 690 | 13.8 | 66 | 0.62 | 3.5 | 2.9 | 1.9 | 1.8 | — | — | | | | | | | | | | | | | | | | | | | | |
| 5.5 | M 4LA 2 | 2870 | 18.3 | 75 | 0.84 | 12.6 | 6.1 | 2.4 | 2.5 | 270 | 51 | FD 06 | 50 | — | 400 | 280 | 64 | AFD 06 | 62 | 400 | 280 | 63 | FA 06 | 50 | 400 | 280 | 65 | | | | |
| 1.5 | 8 | 690 | 21 | 68 | 0.63 | 5.1 | 2.9 | 1.9 | 1.9 | — | — | | | | | | | | | | | | | | | | | | | | |



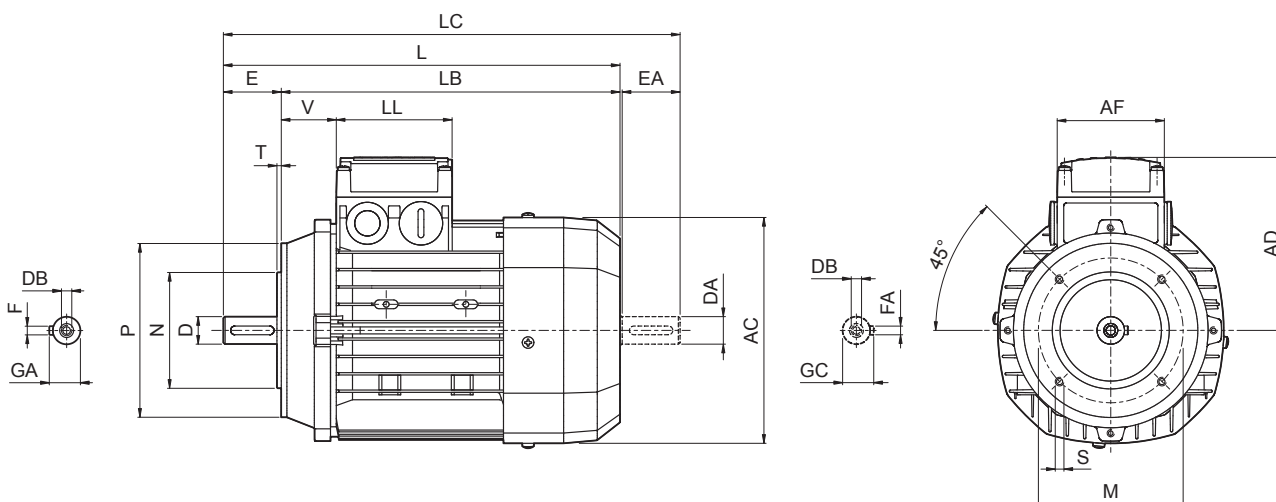
2/12P **3000/500 min⁻¹ - S3 60/40%** **50 Hz**

| P _n kW |  | n min ⁻¹ | M _n Nm | η % | cosφ | In 400V A | Is In | Ms Mn | Ma Mn | frein c.c. | | | | | | | | | | | | | | | | | | | |
|----------------------|---|------------------------|----------------------|--------|------|-----------------|----------|----------|----------|--|--|-----------------------------|----------|--------------|--|--|-----------------------------|----------|---------------|--|--|-----------------------------|----------|--------------|------|-----|-------|-------|--------------|
| | | | | | | | | | | FD | | | | | AFD | | | | | FA | | | | | | | | | |
| | | | | | | | | | | IM B5  | J _m x 10 ⁻⁴ kgm ² | Z ₀ 1/h SB | Mb Nm | Mod | IM B5  | J _m x 10 ⁻⁴ kgm ² | Z ₀ 1/h SB | Mb Nm | Mod | IM B5  | J _m x 10 ⁻⁴ kgm ² | Z ₀ 1/h SB | Mb Nm | Mod | | | | | |
| 0.55 | M 2SA 2 | 2820 | 1.86 | 64 | 0.89 | 1.39 | 4.2 | 1.6 | 1.7 | 25 | 10.6 | 1300 | 5 | FD 04 | 14.5 | 27 | 1300 | 5 | AFD 04 | 14.1 | 27 | 1300 | 5 | FA 04 | 14.4 | 27 | 1300 | 5 | FA 04 |
| 0.09 | 12 | 430 | 2.0 | 30 | 0.63 | 0.69 | 1.8 | 1.9 | 1.8 | | 8000 | 8000 | | | | 12000 | 12000 | | | | | 12000 | 12000 | | | | 12000 | 12000 | |
| 0.75 | M 3SA 2 | 2900 | 2.5 | 65 | 0.81 | 2.06 | 5.2 | 1.9 | 2.1 | 34 | 15.5 | 700 | 13 | FD 15 | 22 | 38 | 900 | 13 | AFD 15 | 21.4 | 38 | 900 | 13 | FA 15 | 23 | 38 | 900 | 13 | FA 15 |
| 0.12 | 12 | 460 | 2.5 | 33 | 0.43 | 1.22 | 1.9 | 1.3 | 1.6 | | 5000 | 5000 | | | | 7000 | 7000 | | | | | 7000 | 7000 | | | | 7000 | 7000 | |
| 1.1 | M 3LA 2 | 2850 | 3.7 | 65 | 0.85 | 2.87 | 4.5 | 1.6 | 1.8 | 40 | 17 | 700 | 13 | FD 15 | 24 | 44 | 900 | 13 | AFD 15 | 23.4 | 44 | 900 | 13 | FA 15 | 24 | 44 | 900 | 13 | FA 15 |
| 0.18 | 12 | 430 | 4.0 | 26 | 0.54 | 1.85 | 1.5 | 1.3 | 1.5 | | 4000 | 4000 | | | | 6000 | 6000 | | | | | 6000 | 6000 | | | | 6000 | 6000 | |
| 1.5 | M 3LB 2 | 2900 | 4.9 | 67 | 0.86 | 3.76 | 5.6 | 1.9 | 1.9 | 54 | 21 | 700 | 13 | FD 15 | 27 | 58 | 900 | 13 | AFD 15 | 26 | 58 | 900 | 13 | FA 15 | 28 | 58 | 900 | 13 | FA 15 |
| 0.25 | 12 | 440 | 5.4 | 36 | 0.46 | 2.18 | 1.8 | 1.7 | 1.8 | | 3800 | 3800 | | | | 5000 | 5000 | | | | | 5000 | 5000 | | | | 5000 | 5000 | |
| 2 | M 3LC 2 | 2850 | 6.7 | 70 | 0.84 | 4.9 | 4.9 | 1.8 | 1.7 | 61 | 23 | — | 18 | FD 55 | 29 | 65 | 700 | 26 | AFD 15 | 28 | 65 | 700 | 26 | FA 15 | 30 | 65 | 700 | 18 | FA 15 |
| 0.3 | 12 | 450 | 6.4 | 38 | 0.47 | 2.4 | 1.7 | 1.6 | 1.7 | | — | — | — | — | — | 3500 | 3500 | | | | | 3500 | 3500 | | | | 3500 | 3500 | |
| 3 | M 4SA 2 | 2920 | 9.8 | 74 | 0.87 | 6.7 | 6.8 | 2.3 | 1.9 | 213 | 42 | — | 37 | FD 56 | 55 | 223 | 450 | 37 | AFD 06 | 54 | 223 | 450 | 37 | FA 06 | 56 | 223 | 450 | 37 | FA 06 |
| 0.5 | 12 | 470 | 10.2 | 51 | 0.43 | 3.3 | 2.0 | 1.7 | 1.6 | | — | — | — | — | — | 3000 | 3000 | | | | | 3000 | 3000 | | | | 3000 | 3000 | |
| 4 | M 4LA 2 | 2920 | 13.1 | 75 | 0.89 | 8.6 | 5.9 | 2.4 | 2.3 | 270 | 51 | — | 37 | FD 56 | 64 | 280 | 400 | 37 | AFD 06 | 63 | 280 | 400 | 37 | FA 06 | 65 | 280 | 400 | 37 | FA 06 |
| 0.7 | 12 | 460 | 14.5 | 53 | 0.44 | 4.3 | 1.9 | 1.7 | 1.6 | | — | — | — | — | — | 2800 | 2800 | | | | | 2800 | 2800 | | | | 2800 | 2800 | |

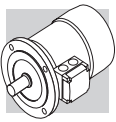


M13 DIMENSIONS MOTEURS

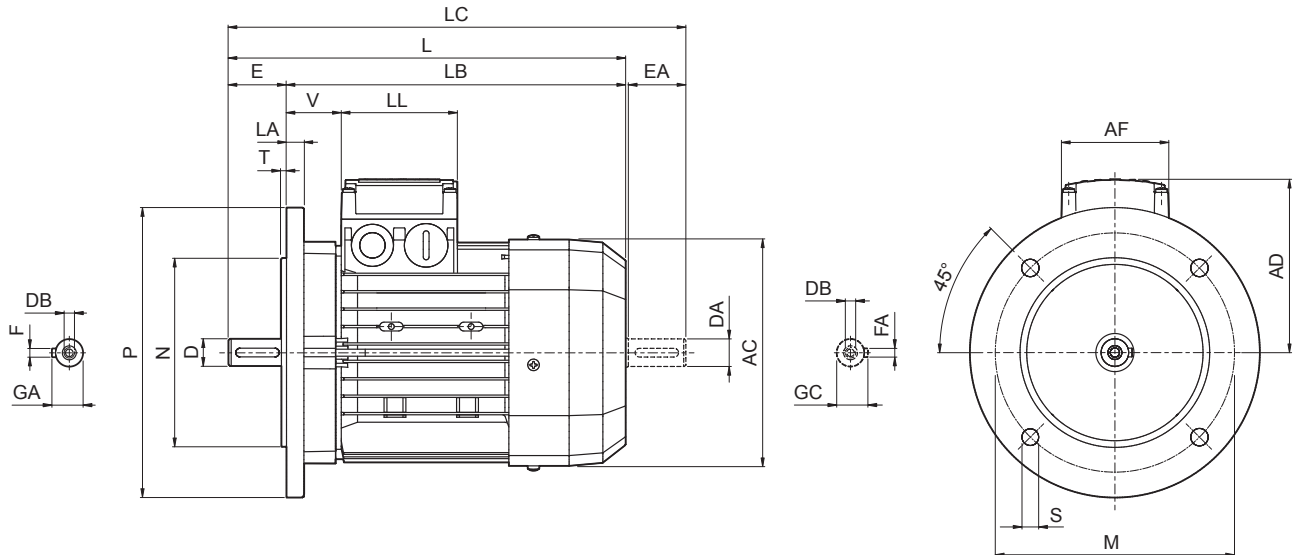
BN - IM B14



| | Arbre | | | | | Bride | | | | | Moteur | | | | | | | |
|---------------|---------|---------|-----|----------|---------|-------|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|----|
| | D DA | E EA | DB | GA GC | F FA | M | N | P | S | T | AC | L | LB | LC | AD | AF | LL | V |
| BN 56 | 9 | 20 | M3 | 10.2 | 3 | 65 | 50 | 80 | M5 | 2.5 | 110 | 185 | 165 | 207 | 91 | 74 | 80 | 34 |
| BN 63 | 11 | 23 | M4 | 12.5 | 4 | 75 | 60 | 90 | M5 | 2.5 | 121 | 207 | 184 | 232 | 95 | 74 | 80 | 26 |
| BN 71 | 14 | 30 | M5 | 16 | 5 | 85 | 70 | 105 | M6 | 2.5 | 138 | 249 | 219 | 281 | 108 | 74 | 80 | 37 |
| BN 80 | 19 | 40 | M6 | 21.5 | 6 | 100 | 80 | 120 | M6 | 3 | 156 | 274 | 234 | 315 | 119 | 74 | 80 | 38 |
| BN 90 | 24 | 50 | M8 | 27 | 8 | 115 | 95 | 140 | M8 | 3 | 176 | 326 | 276 | 378 | 133 | 98 | 98 | 44 |
| BN 100 | 28 | 60 | M10 | 31 | 8 | 130 | 110 | 160 | M8 | 3.5 | 195 | 367 | 307 | 429 | 142 | 98 | 98 | 50 |
| BN 112 | 28 | 60 | M10 | 31 | 8 | 130 | 110 | 160 | M8 | 3.5 | 219 | 385 | 325 | 448 | 157 | 98 | 98 | 52 |
| BN 132 | 38 | 80 | M12 | 41 | 10 | 165 | 130 | 200 | M10 | 4 | 258 | 493 | 413 | 576 | 193 | 118 | 118 | 58 |



BN - IM B5



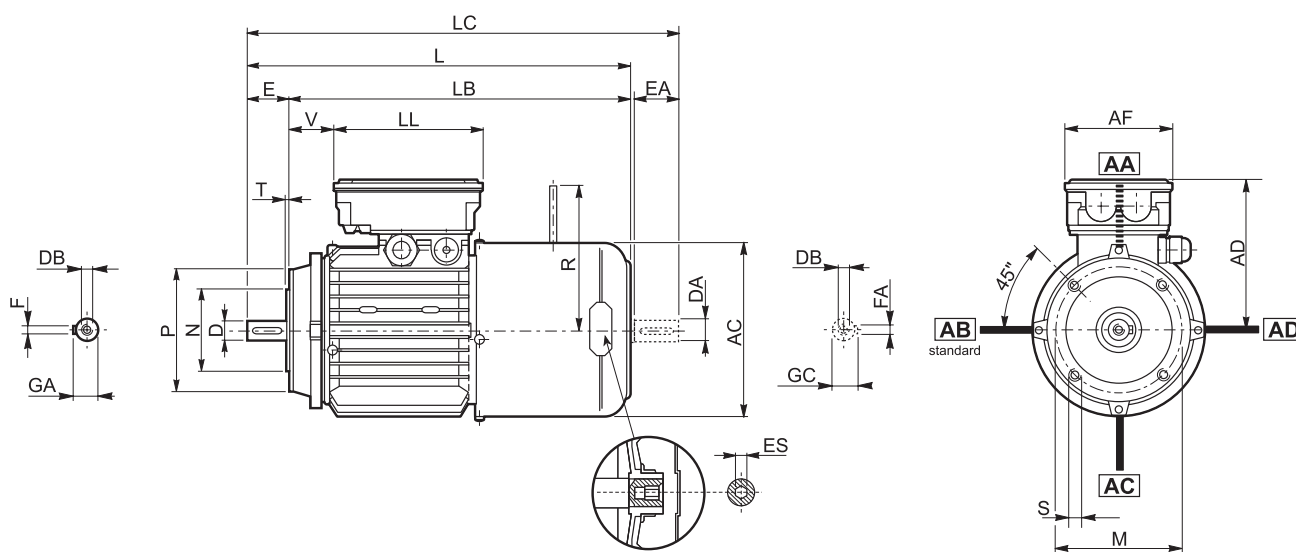
| | Arbre | | | | | Bride | | | | | | Moteur | | | | | | | |
|------------------|--------------|----------------|----------------|----------------|--------------|-------|-----|-----|------|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|
| | D DA | E EA | DB | GA GC | F FA | M | N | P | S | T | LA | AC | L | LB | LC | AD | AF | LL | V |
| BN 56 | 9 | 20 | M3 | 10.2 | 3 | 100 | 80 | 120 | 7 | 3 | 8 | 110 | 185 | 165 | 207 | 91 | 74 | 80 | 34 |
| BN 63 | 11 | 23 | M4 | 12.5 | 4 | 115 | 95 | 140 | 9.5 | 3 | 10 | 121 | 207 | 184 | 232 | 95 | 74 | 80 | 26 |
| BN 71 | 14 | 30 | M5 | 16 | 5 | 130 | 110 | 160 | 9.5 | 3 | 10 | 138 | 249 | 219 | 281 | 108 | 74 | 80 | 37 |
| BN 80 | 19 | 40 | M6 | 21.5 | 6 | 165 | 130 | 200 | 11.5 | 3.5 | 11.5 | 156 | 274 | 234 | 315 | 119 | 74 | 80 | 38 |
| BN 90 | 24 | 50 | M8 | 27 | 8 | 165 | 130 | 200 | 11.5 | 3.5 | 11.5 | 176 | 326 | 276 | 378 | 133 | 98 | 98 | 44 |
| BN 100 | 28 | 60 | M10 | 31 | 8 | 215 | 180 | 250 | 14 | 4 | 14 | 195 | 367 | 307 | 429 | 142 | 98 | 98 | 50 |
| BN 112 | 28 | 60 | M10 | 31 | 8 | 215 | 180 | 250 | 14 | 4 | 15 | 219 | 385 | 325 | 448 | 157 | 98 | 98 | 52 |
| BN 132 | 38 | 80 | M12 | 41 | 10 | 265 | 230 | 300 | 14 | 4 | 20 | 258 | 493 | 413 | 576 | 193 | 118 | 118 | 58 |
| BN 160 MR | 42 38 (1) | 110 80 (1) | M16 M12 (1) | 45 41 (1) | 12 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 258 | 562 | 452 | 645 | 193 | 118 | 118 | 218 |
| BN 160 M | 42 38 (1) | 110 80 (1) | M16 M12 (1) | 45 41 (1) | 12 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 310 | 596 | 486 | 680 | 245 | 187 | 187 | 51 |
| BN 160 L | 42 38 (1) | 110 80 (1) | M16 M12 (1) | 45 41 (1) | 12 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 310 | 596 | 486 | 680 | 245 | 187 | 187 | 51 |
| BN 180 M | 48 38 (1) | 110 110 (1) | M16 M12 (1) | 51.5 41 (1) | 14 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 310 | 640 | 530 | 724 | 245 | 187 | 187 | 51 |
| BN 180 L | 48 42 (1) | 110 110 (1) | M16 M16 (1) | 51.5 45 (1) | 14 12 (1) | 300 | 250 | 350 | 18.5 | 5 | 18 | 348 | 708 | 598 | 823 | 261 | 187 | 187 | 52 |
| BN 200 L | 55 42 (1) | 110 110 (1) | M20 M16 (1) | 59 45 (1) | 16 12 (1) | 350 | 300 | 400 | 18.5 | 5 | 18 | 348 | 722 | 612 | 837 | 261 | 187 | 187 | 66 |

REMARQUE :

1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.



BN_FD ; BN_AFD - IM B14

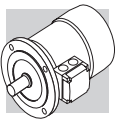


| | Arbre | | | | | Bride | | | | | Moteur | | | | | | | | | |
|----------------|---------|---------|-----|----------|---------|-------|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|-----|---------|----|
| | D DA | E EA | DB | GA GC | F FA | M | N | P | S | T | AC | L | LB | LC | AD | AF | LL | V | R | ES |
| BN 63 | 11 | 23 | M4 | 12.5 | 4 | 75 | 60 | 90 | M5 | 2.5 | 121 | 272 | 249 | 297 | 122 | 98 | 133 | 14 | 96 | 5 |
| BN 71 | 14 | 30 | M5 | 16 | 5 | 85 | 70 | 105 | M6 | 2.5 | 138 | 310 | 280 | 342 | 135 | 98 | 133 | 25 | 103 | 5 |
| BN 80 | 19 | 40 | M6 | 21.5 | 6 | 100 | 80 | 120 | M6 | 3 | 156 | 346 | 306 | 388 | 146 | 98 | 133 | 41 | 129 | 5 |
| BN 90 S | 24 | 50 | M8 | 27 | 8 | 115 | 95 | 140 | M8 | 3 | 176 | 409 | 359 | 461 | 149 | 110 | 165 | 39 | 129 | 6 |
| BN 90 L | 24 | 50 | M8 | 27 | 8 | 115 | 95 | 140 | M8 | 3 | 176 | 409 | 359 | 461 | 146 | 110 | 165 | 39 | 160 | 6 |
| BN 100 | 28 | 60 | M10 | 31 | 8 | 130 | 110 | 160 | M8 | 3.5 | 195 | 458 | 398 | 521 | 158 | 110 | 165 | 62 | 160 | 6 |
| BN 112 | 28 | 60 | M10 | 31 | 8 | 130 | 110 | 160 | M8 | 3.5 | 219 | 484 | 424 | 547 | 173 | 110 | 165 | 73 | 199 | 6 |
| BN 132 | 38 | 80 | M12 | 41 | 10 | 165 | 130 | 200 | M10 | 4 | 258 | 603 | 523 | 686 | 210 | 140 | 188 | 122 | 204 (1) | 6 |

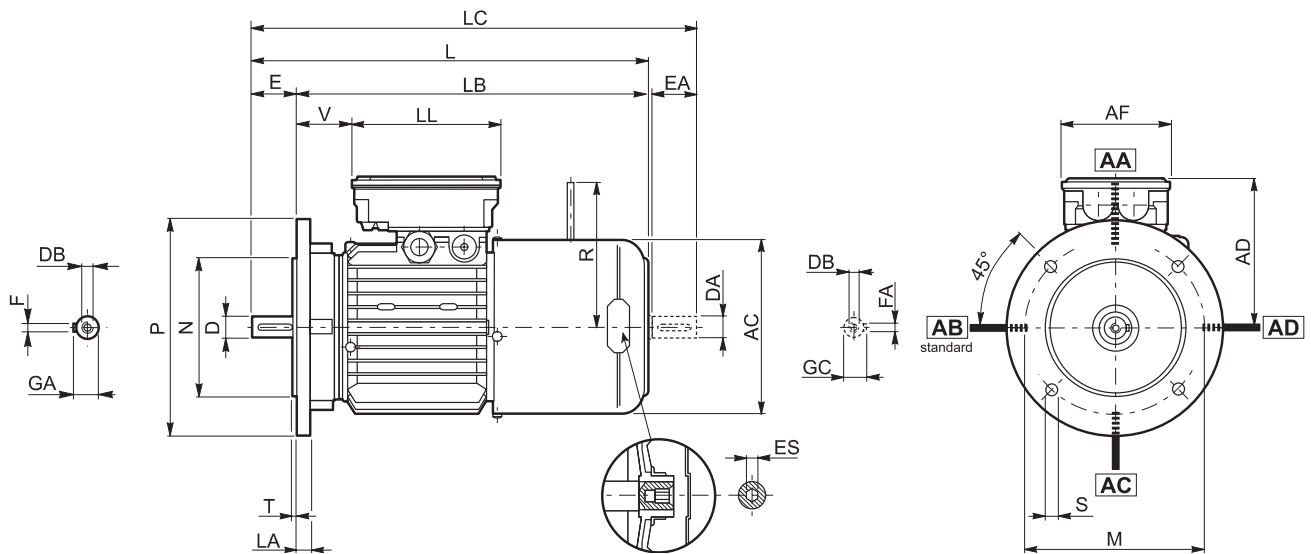
REMARQUE :

1) Pour frein FD07 et AFD valeur R=226.

L'hexagone ES n'est pas disponible avec l'option PS.



BN_FD ; BN_AFD - IM B5



| | Arbre | | | | | Bride | | | | | | Moteur | | | | | | | | | |
|------------------|--------------|----------------|----------------|----------------|--------------|-------|-----|-----|------|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|---------|----|
| | D DA | E EA | DB | GA GC | F FA | M | N | P | S | T | LA | AC | L | LB | LC | AD | AF | LL | V | R | ES |
| BN 63 | 11 | 23 | M4 | 12.5 | 4 | 115 | 95 | 140 | 9.5 | 3 | 10 | 121 | 272 | 249 | 297 | 122 | 98 | 133 | 14 | 96 | 5 |
| BN 71 | 14 | 30 | M5 | 16 | 5 | 130 | 110 | 160 | 9.5 | 3.5 | 10 | 138 | 310 | 280 | 342 | 135 | 98 | 133 | 25 | 103 | 5 |
| BN 80 | 19 | 40 | M6 | 21.5 | 6 | 165 | 130 | 200 | 11.5 | 3.5 | 11.5 | 156 | 346 | 306 | 388 | 146 | 98 | 133 | 41 | 129 | 5 |
| BN 90 S | 24 | 50 | M8 | 27 | 8 | 165 | 130 | 200 | 11.5 | 3.5 | 11.5 | 176 | 409 | 359 | 461 | 149 | 110 | 165 | 39 | 129 | 6 |
| BN 90 L | 24 | 50 | M8 | 27 | 8 | 165 | 130 | 200 | 11.5 | 3.5 | 11.5 | 176 | 409 | 359 | 461 | 146 | 110 | 165 | 39 | 160 | 6 |
| BN 100 | 28 | 60 | M10 | 31 | 8 | 215 | 180 | 250 | 14 | 4 | 14 | 195 | 458 | 398 | 521 | 158 | 110 | 165 | 62 | 160 | 6 |
| BN 112 | 28 | 60 | M10 | 31 | 8 | 215 | 180 | 250 | 14 | 4 | 15 | 219 | 484 | 424 | 547 | 173 | 110 | 165 | 73 | 199 | 6 |
| BN 132 | 38 | 80 | M12 | 41 | 10 | 265 | 230 | 300 | 14 | 4 | 20 | 258 | 603 | 523 | 686 | 210 | 140 | 188 | 122 | 204 (2) | 6 |
| BN 160 MR | 42 38 (1) | 110 80 (1) | M16 M12 (1) | 45 41 (1) | 12 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 258 | 672 | 562 | 755 | 210 | 140 | 188 | 161 | 226 | 6 |
| BN 160 M | 42 38 (1) | 110 80 (1) | M16 M12 (1) | 45 41 (1) | 12 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 310 | 736 | 626 | 820 | 245 | 187 | 187 | 51 | 266 | — |
| BN 160 L | 42 38 (1) | 110 80 (1) | M16 M12 (1) | 45 41 (1) | 12 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 310 | 736 | 626 | 820 | 245 | 187 | 187 | 51 | 266 | — |
| BN 180 M | 48 38 (1) | 110 80 (1) | M16 M12 (1) | 51.5 41 (1) | 14 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 310 | 780 | 670 | 864 | 245 | 187 | 187 | 51 | 266 | — |
| BN 180 L | 48 42 (1) | 110 110 (1) | M16 M16 (1) | 51.5 45 (1) | 14 12 (1) | 300 | 250 | 350 | 18.5 | 5 | 18 | 348 | 866 | 756 | 981 | 261 | 187 | 187 | 52 | 305 | — |
| BN 200 L | 55 42 (1) | 110 110 (1) | M20 M16 (1) | 59 45 (1) | 16 12 (1) | 350 | 300 | 400 | 18.5 | 5 | 18 | 348 | 878 | 768 | 993 | 261 | 187 | 187 | 64 | 305 | — |

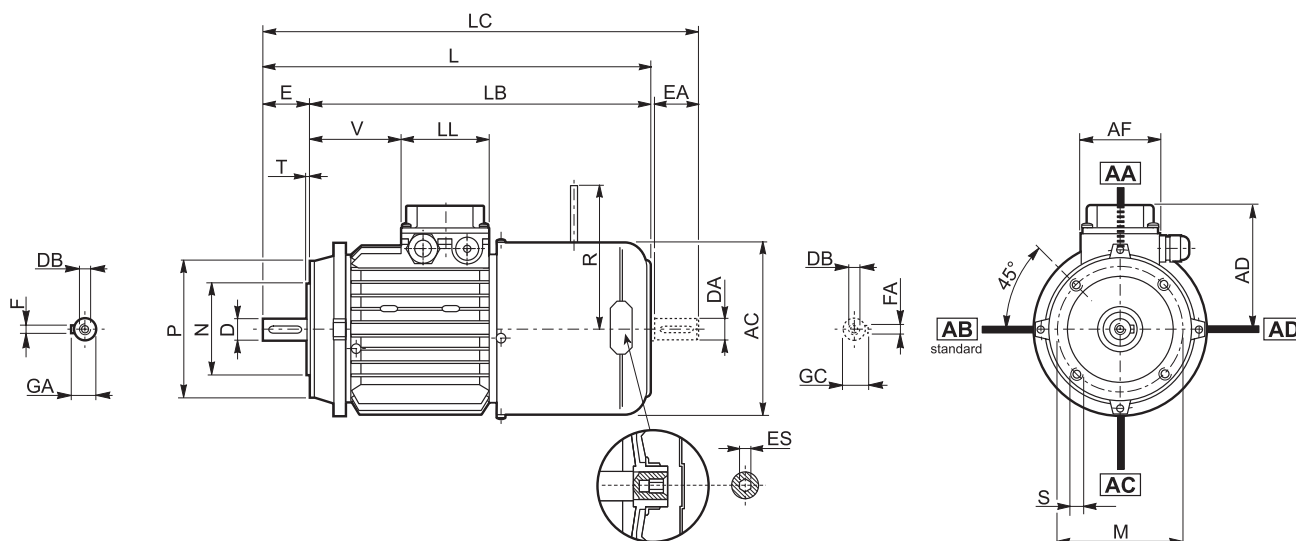
REMARQUE :

- 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.
- 2) Pour frein FD07 et AFD valeur R=226.

L'hexagone ES n'est pas disponible avec l'option PS.



BN_FA - IM B14



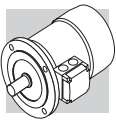
| | Arbre | | | | | Bride | | | | | Moteur | | | | | | | | | |
|---------------|---------|---------|-----|----------|---------|-------|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|-----|---------|----|
| | D DA | E EA | DB | GA GC | F FA | M | N | P | S | T | AC | L | LB | LC | AD | AF | LL | V | R | ES |
| BN 63 | 11 | 23 | M4 | 12.5 | 4 | 75 | 60 | 90 | M5 | 2.5 | 121 | 272 | 249 | 119 | 95 | 74 | 80 | 26 | 116 | 5 |
| BN 71 | 14 | 30 | M5 | 16 | 5 | 85 | 70 | 105 | M6 | 2.5 | 138 | 310 | 280 | 342 | 108 | 74 | 80 | 68 | 124 | 5 |
| BN 80 | 19 | 40 | M6 | 21.5 | 6 | 100 | 80 | 120 | M6 | 3 | 156 | 346 | 306 | 388 | 119 | 74 | 80 | 83 | 134 | 5 |
| BN 90 | 24 | 50 | M8 | 27 | 8 | 115 | 95 | 140 | M8 | 3 | 176 | 409 | 359 | 461 | 133 | 98 | 98 | 95 | 160 | 6 |
| BN 100 | 28 | 60 | M10 | 31 | 8 | 130 | 110 | 160 | M8 | 3.5 | 195 | 458 | 398 | 521 | 142 | 98 | 98 | 119 | 160 | 6 |
| BN 112 | 28 | 60 | M10 | 31 | 8 | 130 | 110 | 160 | M8 | 3.5 | 219 | 484 | 424 | 547 | 157 | 98 | 98 | 128 | 198 | 6 |
| BN 132 | 38 | 80 | M12 | 41 | 10 | 165 | 130 | 200 | M10 | 4 | 258 | 603 | 523 | 686 | 193 | 118 | 118 | 180 | 200 (1) | 6 |

REMARQUE :

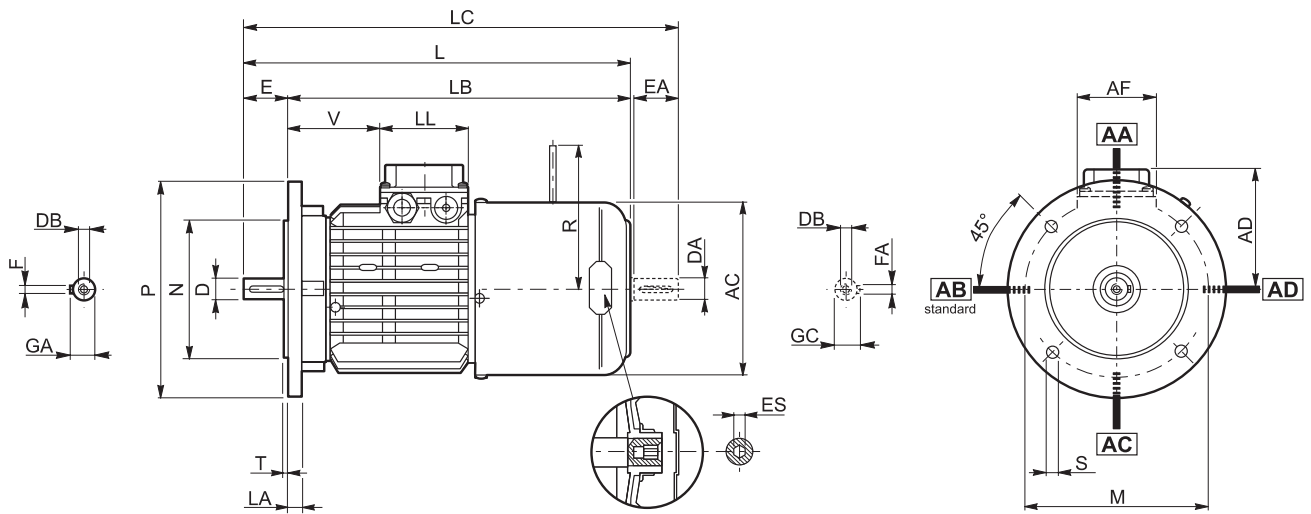
1) Pour frein FA07 valeur R=217.

Les dimensions AD, AF, LL et V relatives à la boîte à bornes des moteurs BN...FA équipés d'alimentation séparée du frein (option SA) sont identiques à celles des moteurs BN...FD et AFD de la même taille.

L'hexagone ES n'est pas disponible avec l'option PS.



BN_FA - IM B5



| | Arbre | | | | | Bride | | | | | | Moteur | | | | | | | | | |
|------------------|--------------|---------------|----------------|----------------|--------------|-------|-----|-----|------|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|---------|----|
| | D DA | E EA | DB | GA GC | F FA | M | N | P | S | T | LA | AC | L | LB | LC | AD | AF | LL | V | R | ES |
| BN 63 | 11 | 23 | M4 | 12.5 | 4 | 115 | 95 | 140 | 9.5 | 3 | 10 | 121 | 272 | 249 | 297 | 95 | 74 | 80 | 26 | 116 | 5 |
| BN 71 | 14 | 30 | M5 | 16 | 5 | 130 | 110 | 160 | 9.5 | 3.5 | 10 | 138 | 310 | 280 | 342 | 108 | 74 | 80 | 68 | 124 | 5 |
| BN 80 | 19 | 40 | M6 | 21.5 | 6 | 165 | 130 | 200 | 11.5 | 3.5 | 11.5 | 156 | 346 | 306 | 388 | 119 | 74 | 80 | 83 | 134 | 5 |
| BN 90 | 24 | 50 | M8 | 27 | 8 | 165 | 130 | 200 | 11.5 | 3.5 | 11.5 | 176 | 409 | 359 | 461 | 133 | 98 | 98 | 95 | 160 | 6 |
| BN 100 | 28 | 60 | M10 | 31 | 8 | 215 | 180 | 250 | 14 | 4 | 14 | 195 | 458 | 398 | 521 | 142 | 98 | 98 | 119 | 160 | 6 |
| BN 112 | 28 | 60 | M10 | 31 | 8 | 215 | 180 | 250 | 14 | 4 | 15 | 219 | 484 | 424 | 547 | 157 | 98 | 98 | 128 | 198 | 6 |
| BN 132 | 38 | 80 | M12 | 41 | 10 | 265 | 230 | 300 | 14 | 4 | 20 | 258 | 603 | 523 | 686 | 193 | 118 | 118 | 180 | 200 (2) | 6 |
| BN 160 MR | 42 38 (1) | 110 80 (1) | M16 M12 (1) | 45 41 (1) | 12 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 258 | 672 | 562 | 755 | 193 | 118 | 118 | 218 | 217 | 6 |
| BN 160 M | 42 38 (1) | 110-80 (1) | M16 M12 (1) | 45 41 (1) | 12 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 310 | 736 | 626 | 820 | 245 | 187 | 187 | 51 | 247 | — |
| BN 160 L | 42 38 (1) | 110 80 (1) | M16 M12 (1) | 45 41 (1) | 12 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 310 | 736 | 626 | 820 | 245 | 187 | 187 | 51 | 247 | — |
| BN 180 M | 48 38 (1) | 110 80 (1) | M16 M12 (1) | 51.5 41 (1) | 14 10 (1) | 300 | 250 | 350 | 18.5 | 5 | 15 | 310 | 780 | 670 | 864 | 245 | 187 | 187 | 51 | 247 | — |

REMARQUE :

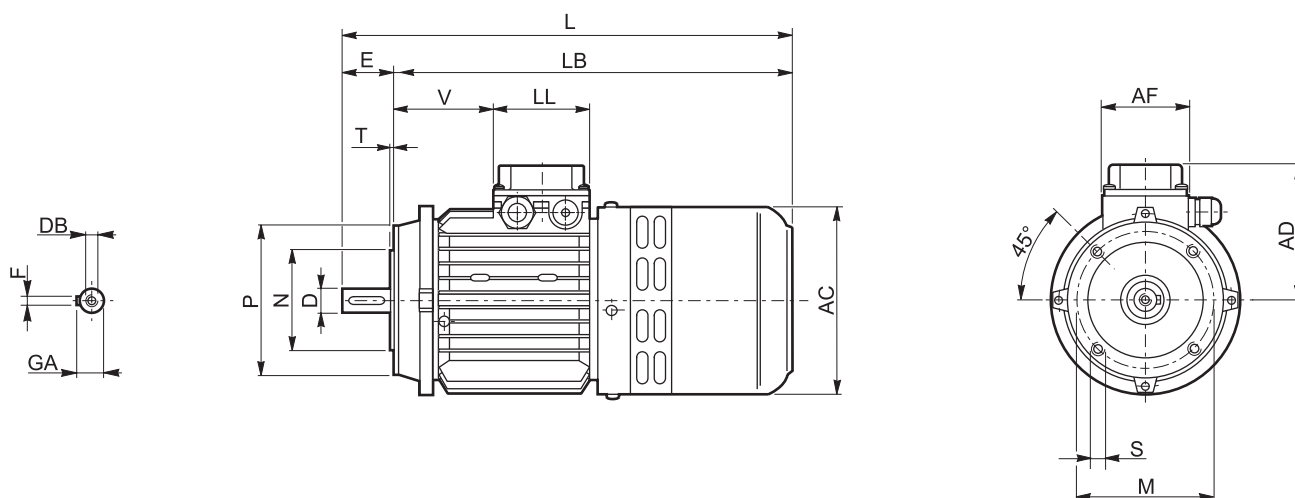
- 1) Ces dimensions se réfèrent à la deuxième extrémité de l'arbre.
- 2) Pour frein FA07 valeur R=217.

Les dimensions AD, AF, LL et V relatives à la boîte à bornes des moteurs BN...FA équipés d'alimentation séparée du frein (option SA) sont identiques à celles des moteurs BN...FD et AFD de la même taille.

L'hexagone ES n'est pas disponible avec l'option PS.



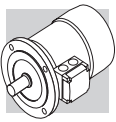
BN_BA - IM B14



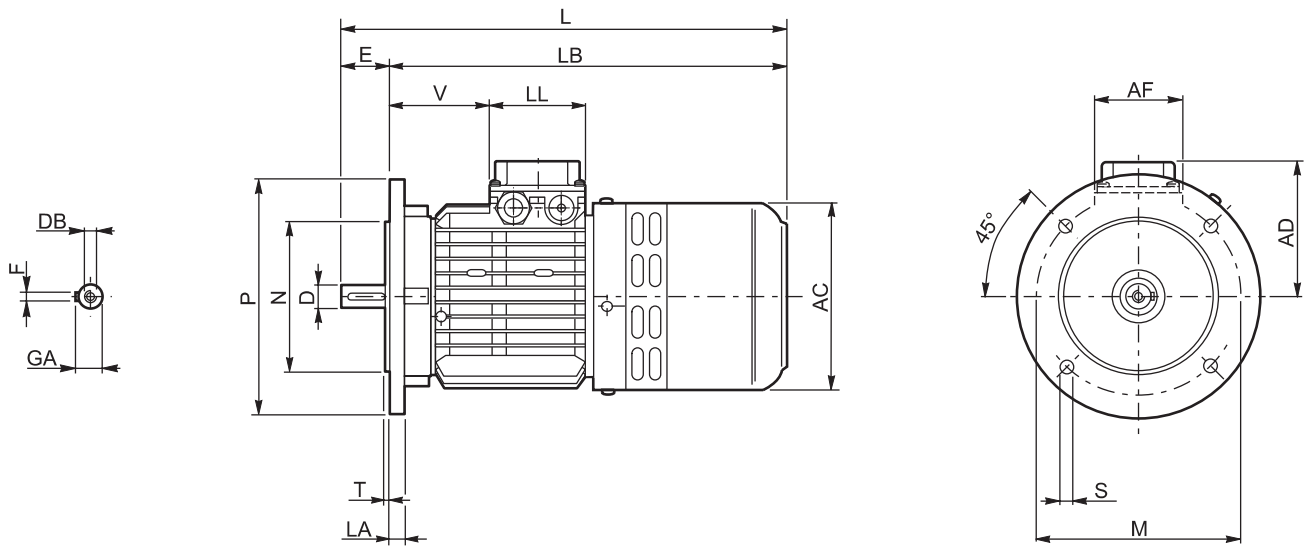
| | Arbre | | | | | Bride | | | | | Moteur | | | | | | | |
|---------------|-------|----|-----|------|----|-------|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|----|
| | D | E | DB | GA | F | M | N | P | S | T | AC | L | LB | LC | AD | AF | LL | V |
| BN 63 | 11 | 23 | M4 | 12.5 | 4 | 75 | 60 | 90 | M5 | 2.5 | 124 | 298 | 275 | 95 | 74 | 80 | 28 | 34 |
| BN 71 | 14 | 30 | M5 | 16 | 5 | 85 | 70 | 105 | M6 | 2.5 | 138 | 327 | 297 | 108 | 74 | 80 | 68 | 26 |
| BN 80 | 19 | 40 | M6 | 21.5 | 6 | 100 | 80 | 120 | M6 | 3 | 156 | 372 | 332 | 119 | 74 | 80 | 83 | 37 |
| BN 90 | 24 | 50 | M8 | 27 | 8 | 115 | 95 | 140 | M8 | 3 | 176 | 425 | 375 | 133 | 98 | 98 | 95 | 38 |
| BN 100 | 28 | 60 | M10 | 31 | 8 | 130 | 110 | 160 | M8 | 3.5 | 195 | 477 | 417 | 142 | 98 | 98 | 119 | 44 |
| BN 112 | 28 | 60 | M10 | 31 | 8 | 130 | 110 | 160 | M8 | 3.5 | 219 | 500 | 440 | 157 | 98 | 98 | 128 | 50 |
| BN 132 | 38 | 80 | M12 | 41 | 10 | 165 | 130 | 200 | M10 | 4 | 258 | 638 | 558 | 193 | 118 | 118 | 180 | 52 |

REMARQUE :

Les dimensions AD, AF, LL et V relatives à la boîte à bornes des moteurs BN...BA équipés d'alimentation séparée du frein (option SA) sont identiques à celles des moteurs BN...FD et AFD de la même taille.



BN_BA - IM B5



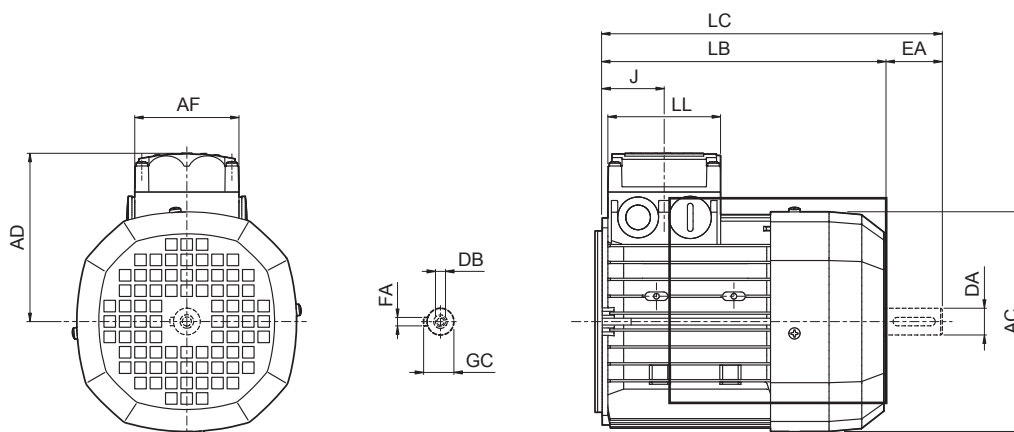
| | Arbre | | | | Bride | | | | | | | Moteur | | | | | | | |
|---------------|-------|----|-----|------|-------|-----|-----|-----|------|-----|------|--------|-----|-----|-----|-----|-----|-----|----|
| | D | E | DB | GA | F | M | N | P | S | T | LA | AC | L | LB | LC | AD | AF | LL | V |
| BN 63 | 11 | 23 | M4 | 12.5 | 4 | 115 | 95 | 140 | 9.5 | 3 | 10 | 124 | 298 | 275 | 95 | 74 | 80 | 28 | 34 |
| BN 71 | 14 | 30 | M5 | 16 | 5 | 130 | 110 | 160 | 9.5 | 3.5 | 10 | 138 | 327 | 297 | 108 | 74 | 80 | 68 | 26 |
| BN 80 | 19 | 40 | M6 | 21.5 | 6 | 165 | 130 | 200 | 11.5 | 3.5 | 11.5 | 156 | 372 | 332 | 119 | 74 | 80 | 83 | 37 |
| BN 90 | 24 | 50 | M8 | 27 | 8 | 165 | 130 | 200 | 11.5 | 3.5 | 11.5 | 176 | 425 | 375 | 133 | 98 | 98 | 95 | 38 |
| BN 100 | 28 | 60 | M10 | 31 | 8 | 215 | 180 | 250 | 14 | 4 | 14 | 195 | 477 | 417 | 142 | 98 | 98 | 119 | 44 |
| BN 112 | 28 | 60 | M10 | 31 | 8 | 215 | 180 | 250 | 14 | 4 | 15 | 219 | 500 | 440 | 157 | 98 | 98 | 128 | 50 |
| BN 132 | 38 | 80 | M12 | 41 | 10 | 265 | 230 | 300 | 14 | 4 | 20 | 258 | 638 | 558 | 193 | 118 | 118 | 180 | 52 |

REMARQUE :

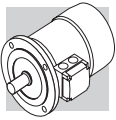
Les dimensions AD, AF, LL et V relatives à la boîte à bornes des moteurs BN...BA équipés d'alimentation séparée du frein (option SA) sont identiques à celles des moteurs BN...FD et AFD de la même taille.



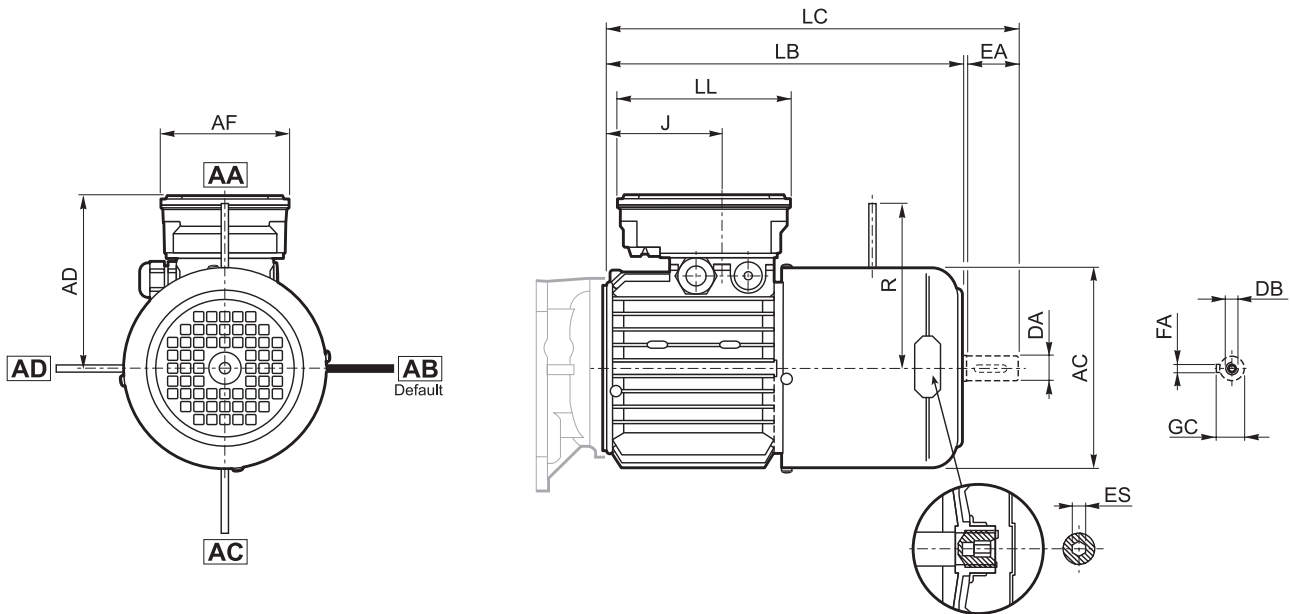
M



| | Deuxième extrémité de l'arbre | | | | | Moteur | | | | | | |
|---------------|-------------------------------|----|-----|----|------|--------|-----|-----|-----|-----|------|-----|
| | DA | EA | DB | FA | GC | AC | LB | LC | AF | LL | J | AD |
| M 0 | 9 | 20 | M3 | 3 | 10.2 | 110 | 133 | 155 | 74 | 80 | 42 | 91 |
| M 05 | 11 | 23 | M4 | 4 | 12.5 | 121 | 165 | 191 | 74 | 80 | 48 | 95 |
| M 1 | 14 | 30 | M5 | 5 | 16 | 138 | 187 | 219 | 74 | 80 | 45 | 108 |
| M 2 S | 19 | 40 | M6 | 6 | 21.5 | 156 | 202 | 245 | 74 | 80 | 44 | 119 |
| M 3 S | 28 | 60 | M10 | 8 | 31 | 195 | 230 | 293 | 98 | 98 | 53.5 | 142 |
| M 3 L | 28 | 60 | M10 | 8 | 31 | 195 | 262 | 325 | 98 | 98 | 53.5 | 142 |
| M 4 | 38 | 80 | M12 | 10 | 41 | 258 | 361 | 444 | 118 | 118 | 64.5 | 193 |
| M 4 LC | 38 | 80 | M12 | 10 | 41 | 258 | 396 | 479 | 118 | 118 | 64.5 | 193 |
| M 5 S | 38 | 80 | M12 | 10 | 41 | 310 | 418 | 502 | 187 | 187 | 77 | 245 |
| M 5 L | 38 | 80 | M12 | 10 | 41 | 310 | 462 | 546 | 187 | 187 | 77 | 245 |



M_FD ; M_AFD



| | Deuxième extrémité de l'arbre | | | | | Moteur | | | | | | | | |
|---------------|-------------------------------|----|-----|----|------|--------|-----|-----|-----|-----|-------|-----|---------|----|
| | DA | EA | DB | FA | GC | AC | LB | LC | AF | LL | J | AD | R | ES |
| M 05 | 11 | 23 | M4 | 4 | 12.5 | 121 | 231 | 256 | 98 | 133 | 48 | 122 | 96 | 5 |
| M 1 | 14 | 30 | M5 | 5 | 16 | 138 | 248 | 280 | 98 | 133 | 73 | 135 | 103 | 5 |
| M 2 S | 19 | 40 | M6 | 6 | 21.5 | 156 | 272 | 314 | 98 | 133 | 88 | 146 | 129 | 5 |
| M 3 S | 28 | 60 | M10 | 8 | 31 | 195 | 326 | 389 | 110 | 165 | 124.5 | 158 | 160 | 6 |
| M 3 L | 28 | 60 | M10 | 8 | 31 | 195 | 353 | 416 | 110 | 165 | 124.5 | 158 | 160 | 6 |
| M 4 | 38 | 80 | M12 | 10 | 41 | 258 | 470 | 553 | 140 | 188 | 185.5 | 210 | 204 (1) | 6 |
| M 4 LC | 38 | 80 | M12 | 10 | 41 | 258 | 495 | 578 | 140 | 188 | 64.5 | 210 | 226 | 6 |
| M 5 S | 38 | 80 | M12 | 10 | 41 | 310 | 558 | 642 | 187 | 187 | 77 | 245 | 266 | — |
| M 5 L | 38 | 80 | M12 | 10 | 41 | 310 | 602 | 686 | 187 | 187 | 77 | 245 | 266 | — |

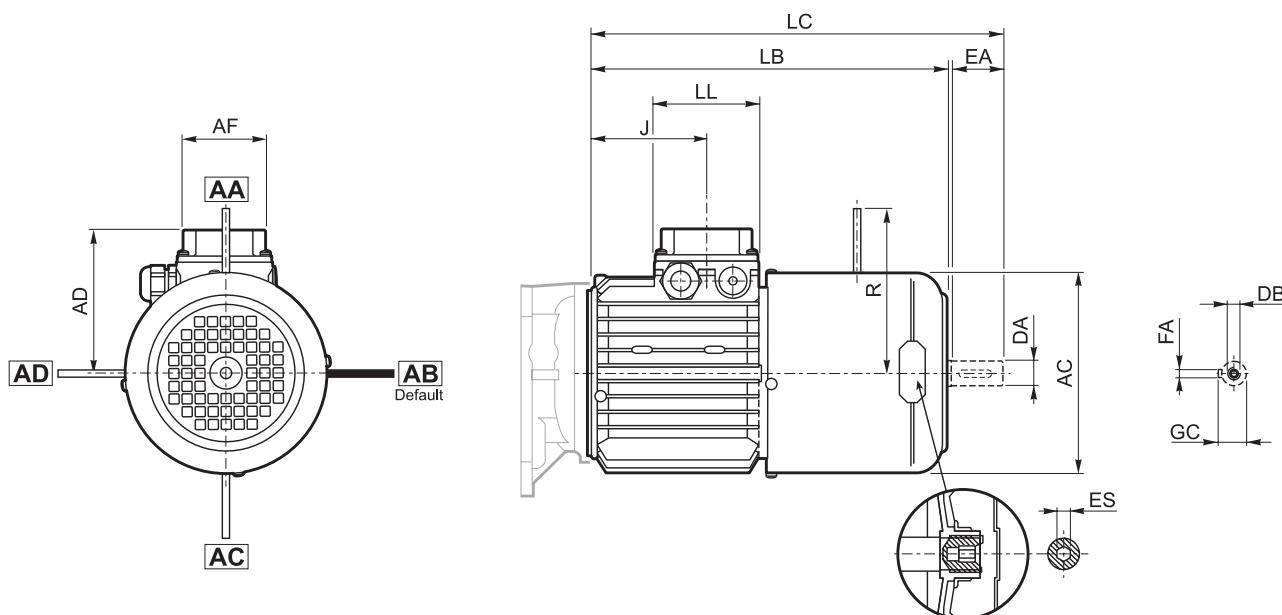
REMARQUE :

1) Pour frein FD07 et AFD07 valeur R=226.

L'hexagone ES n'est pas disponible avec l'option PS.



M_FA



| | Deuxième extrémité de l'arbre | | | | | Moteur | | | | | | | | |
|---------------|-------------------------------|----|-----|----|------|--------|-----|-----|-----|-----|-------|-----|---------|----|
| | DA | EA | DB | FA | GC | AC | LB | LC | AF | LL | J | AD | R | ES |
| M 05 | 11 | 23 | M4 | 4 | 12.5 | 121 | 231 | 256 | 74 | 80 | 48 | 95 | 116 | 5 |
| M 1 | 14 | 30 | M5 | 5 | 16 | 138 | 248 | 280 | 74 | 80 | 73 | 108 | 124 | 5 |
| M 2 S | 19 | 40 | M6 | 6 | 21.5 | 156 | 272 | 314 | 74 | 80 | 88 | 119 | 134 | 5 |
| M 3 S | 28 | 60 | M10 | 8 | 31 | 195 | 326 | 389 | 98 | 98 | 124.5 | 142 | 160 | 6 |
| M 3 L | 28 | 60 | M10 | 8 | 31 | 195 | 353 | 416 | 98 | 98 | 124.5 | 142 | 160 | 6 |
| M 4 | 38 | 80 | M14 | 10 | 41 | 258 | 470 | 553 | 118 | 118 | 185.5 | 193 | 200 (1) | 6 |
| M 4 LC | 38 | 80 | M14 | 10 | 41 | 258 | 495 | 578 | 118 | 118 | 64.5 | 193 | 217 | 6 |
| M 5 S | 38 | 80 | M12 | 10 | 41 | 310 | 558 | 642 | 187 | 187 | 77 | 245 | 247 | — |
| M 5 L | 38 | 80 | M12 | 10 | 41 | 310 | 602 | 686 | 187 | 187 | 77 | 245 | 247 | — |

REMARQUE :


1) Pour frein FA07 valeur R=217.

Les dimensions AD, AF, LL et V relatives à la boîte à bornes des moteurs M...FA équipés d'alimentation séparée du frein (option SA) sont identiques à celles des moteurs M...FD et AFD de la même taille.

L'hexagone ES n'est pas disponible avec l'option PS.



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HEADQUARTERS

Bonfiglioli Riduttori S.p.A.
Via Giovanni XXIII, 7/A
40012 Lippo di Calderara di Reno
Bologna (Italy)

tel: +39 051 647 3111
fax: +39 051 647 3126
bonfiglioli@bonfiglioli.com
www.bonfiglioli.com

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