

Specifications

		AC100V	
Motor model *1	MSME	5AZG1□	5AZS1□
Applicable driver *2	Model No.	A5 series	MADHT1105
		A5E series	MADHT1105E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.4	
Rated output	(W)	50	
Rated torque	(N-m)	0.16	
Momentary Max. peak torque	(N-m)	0.48	
Rated current	(A(rms))	1.1	
Max. current	(A(o-p))	4.7	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4280	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	6000	
Moment of inertia of rotor ($\times 10^{-4}$ kg-m ²)	Without brake	0.025	
	With brake	0.027	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During operation	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

• For details of Note 1 to Note 5, refer to P.104.

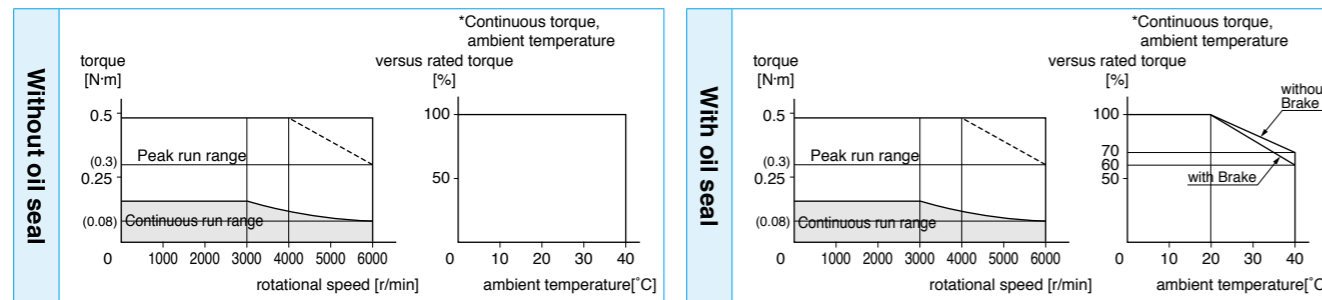
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

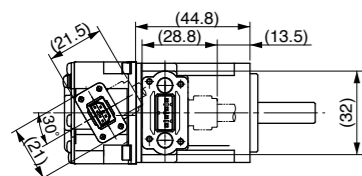
Torque characteristics (at AC100V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

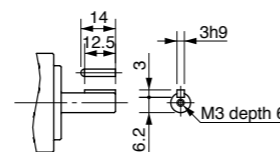
<Without Brake>

Mass (kg)/ 0.32



(1) Encoder connector
(2) Motor connector

Key way dimensions



* For the dimensions of with brake, refer to the right page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	5AZG1□	5AZS1□
Applicable driver *2	Model No.	A5 series	MADHT1505
		A5E series	MADHT1505E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.5	
Rated output	(W)	50	
Rated torque	(N-m)	0.16	
Momentary Max. peak torque	(N-m)	0.48	
Rated current	(A(rms))	1.1	
Max. current	(A(o-p))	4.7	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4280	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	6000	
Moment of inertia of rotor ($\times 10^{-4}$ kg-m ²)	Without brake	0.025	
	With brake	0.027	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During operation	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

• For details of Note 1 to Note 5, refer to P.104.

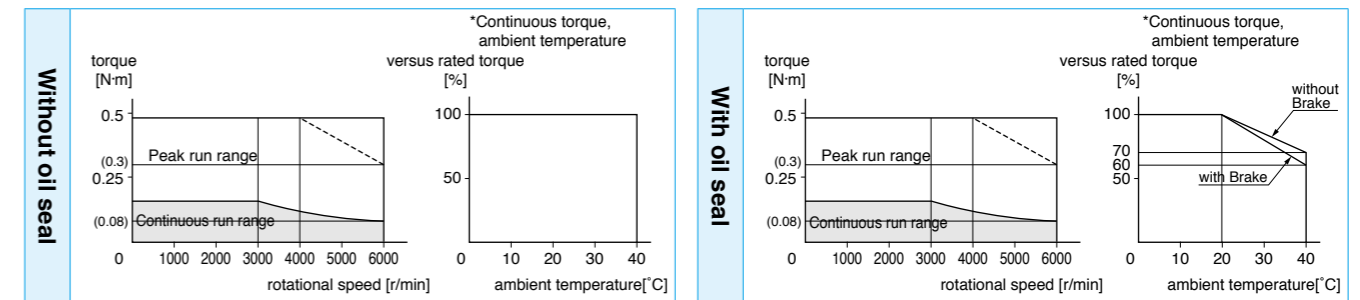
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

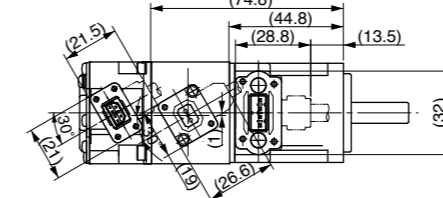
Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

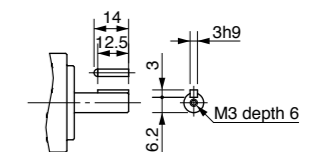
<With Brake>

Mass (kg)/ 0.53



(1) Encoder connector
(2) Brake connector
(3) Motor connector

Key way dimensions



* For the dimensions of without brake, refer to the left page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC100V	
Motor model *1	MSME	011G1□	011S1□
Applicable driver *2	Model No.	A5 series	MADHT1107
		A5E series	MADHT1107E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.4	
Rated output	(W)	100	
Rated torque	(N·m)	0.32	
Momentary Max. peak torque	(N·m)	0.95	
Rated current	(A(rms))	1.6	
Max. current	(A(o-p))	6.9	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4280	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	6000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.051	
	With brake	0.054	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During operation	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

• For details of Note 1 to Note 5, refer to P.104.

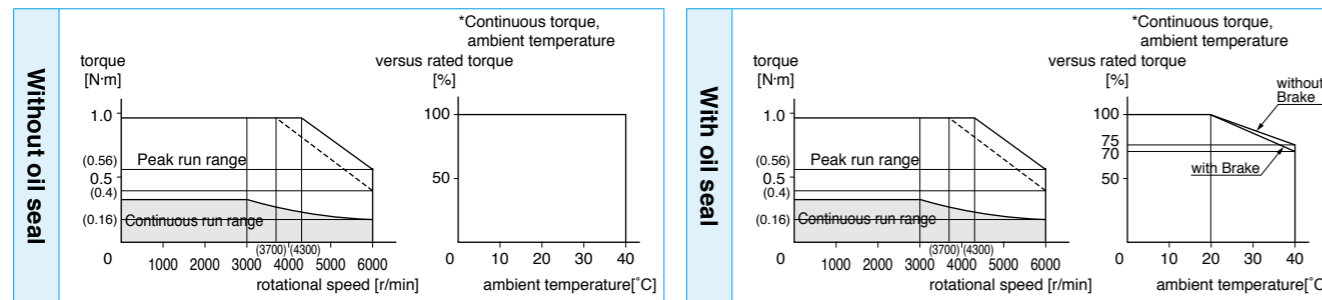
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

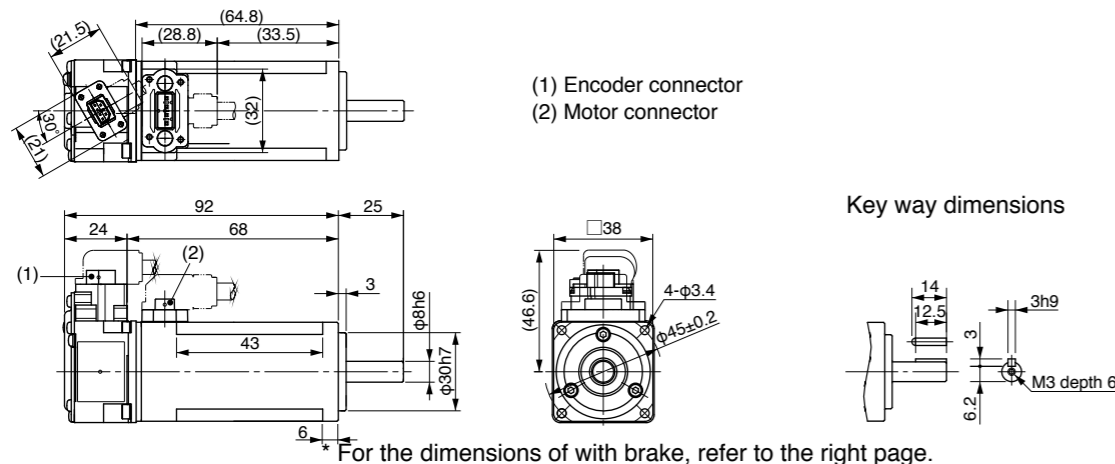
Torque characteristics (at AC100V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake>

Mass (kg)/ 0.47



For the dimensions of with brake, refer to the right page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	012G1□	012S1□
Applicable driver *2	Model No.	A5 series	MADHT1505
		A5E series	MADHT1505E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.5	
Rated output	(W)	100	
Rated torque	(N·m)	0.32	
Momentary Max. peak torque	(N·m)	0.95	
Rated current	(A(rms))	1.1	
Max. current	(A(o-p))	4.7	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4280	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	6000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.051	
	With brake	0.054	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During operation	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

• For details of Note 1 to Note 5, refer to P.104.

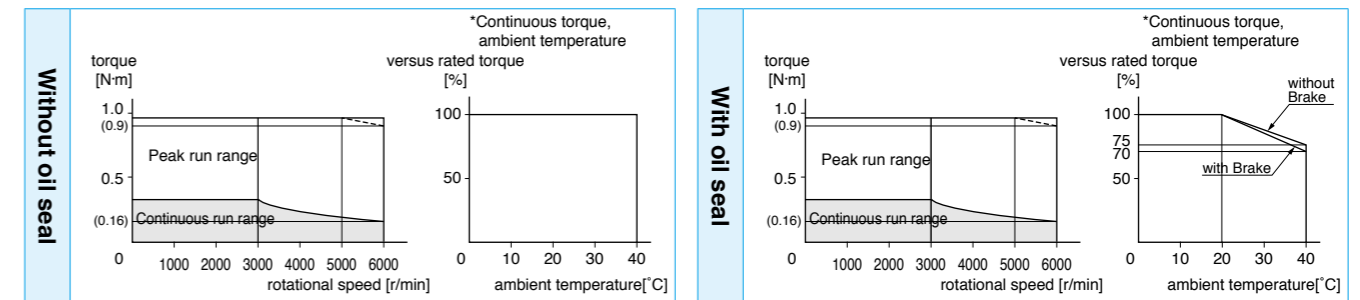
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

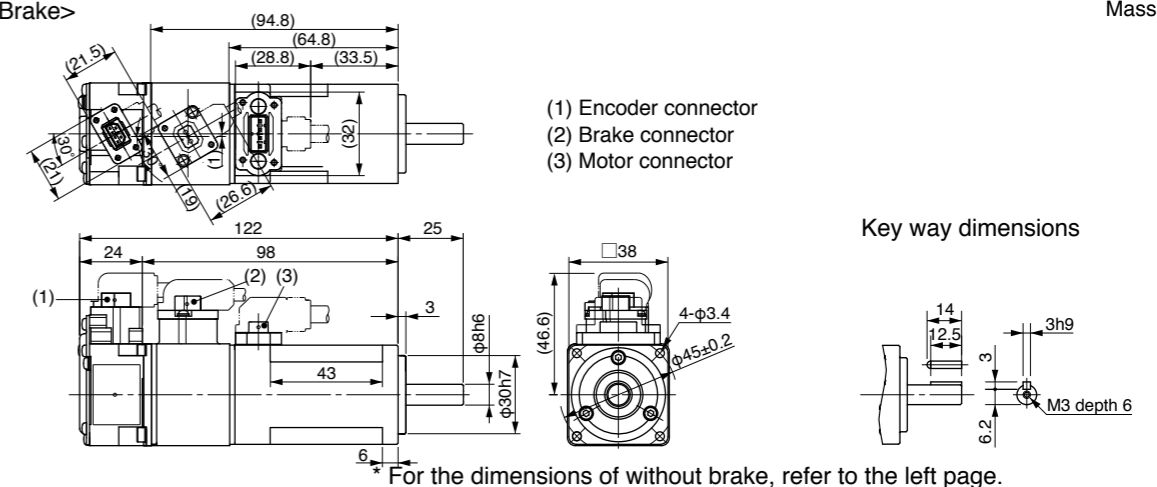
Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<With Brake>

Mass (kg)/ 0.68



For the dimensions of without brake, refer to the left page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC100V	
Motor model *1	MSME	021G1□	021S1□
Applicable driver *2	Model No.	A5 series	MBDHT2110
		A5E series	MBDHT2110E
	Frame symbol		B-frame
Power supply capacity	(kVA)	0.5	
Rated output	(W)	200	
Rated torque	(N-m)	0.64	
Momentary Max. peak torque	(N-m)	1.91	
Rated current	(A(rms))	2.5	
Max. current	(A(o-p))	10.6	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	6000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	0.14	
	With brake	0.16	
Recommended moment of inertia ratio of the load and the rotor Note3		30 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

• For details of Note 1 to Note 5, refer to P.104.

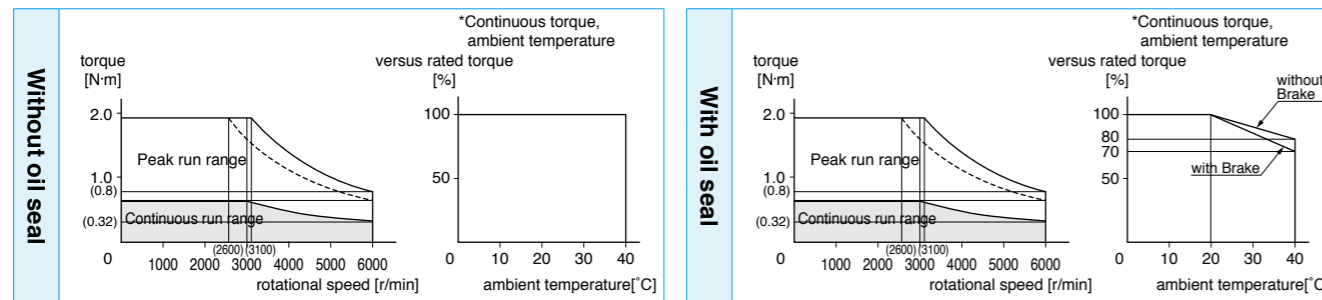
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

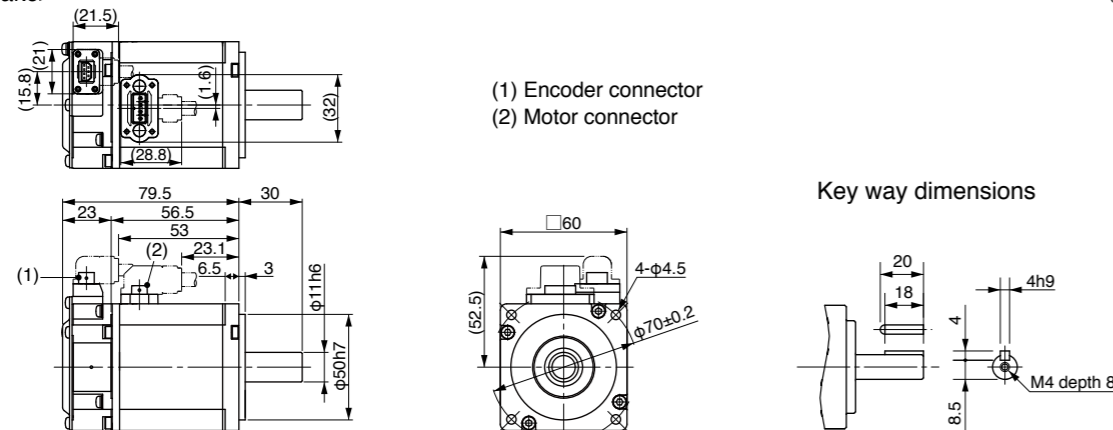
Detail of model designation, refer to P.11.

Torque characteristics (at AC100V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake> Mass (kg)/ 0.82



* For the dimensions of with brake, refer to the right page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	022G1□	022S1□
Applicable driver *2	Model No.	A5 series	MADHT1507
		A5E series	MADHT1507E
	Frame symbol		A-frame
Power supply capacity	(kVA)	0.5	
Rated output	(W)	200	
Rated torque	(N-m)	0.64	
Momentary Max. peak torque	(N-m)	1.91	
Rated current	(A(rms))	1.5	
Max. current	(A(o-p))	6.5	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	6000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	0.14	
	With brake	0.16	
Recommended moment of inertia ratio of the load and the rotor Note3		30 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

• For details of Note 1 to Note 5, refer to P.104.

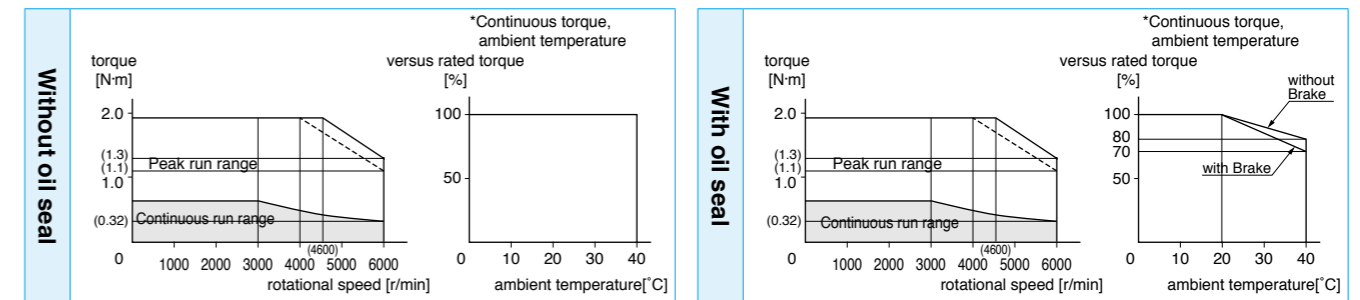
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

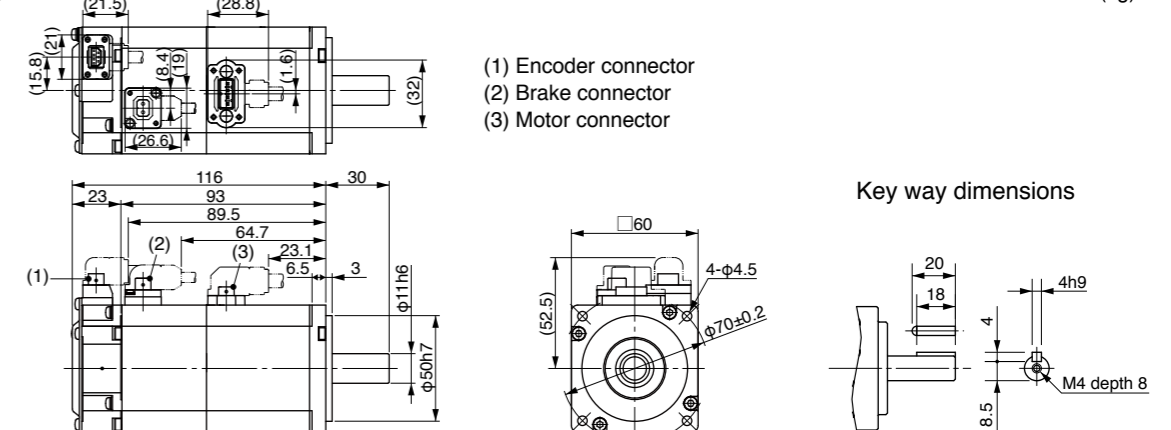
Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<With Brake> Mass (kg)/ 1.30



* For the dimensions of without brake, refer to the left page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC100V	
Motor model *1	MSME	041G1□	041S1□
Applicable driver *2	Model No.	A5 series	MCDHT3120
		A5E series	MCDHT3120E
	Frame symbol	C-frame	
Power supply capacity	(kVA)	0.9	
Rated output	(W)	400	
Rated torque	(N-m)	1.3	
Momentary Max. peak torque	(N-m)	3.8	
Rated current	(A(rms))	4.6	
Max. current	(A(o-p))	19.5	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4282	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	6000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	0.26	
	With brake	0.28	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

• For details of Note 1 to Note 5, refer to P.104.

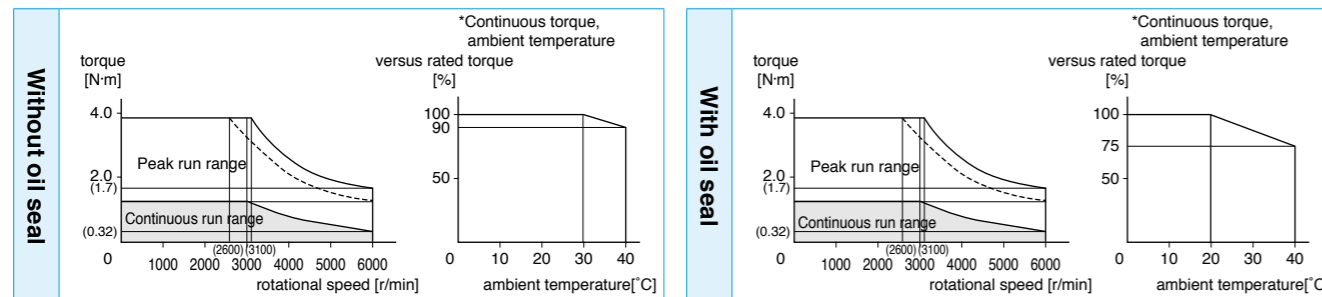
• Dimensions of Driver, refer to P.31.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

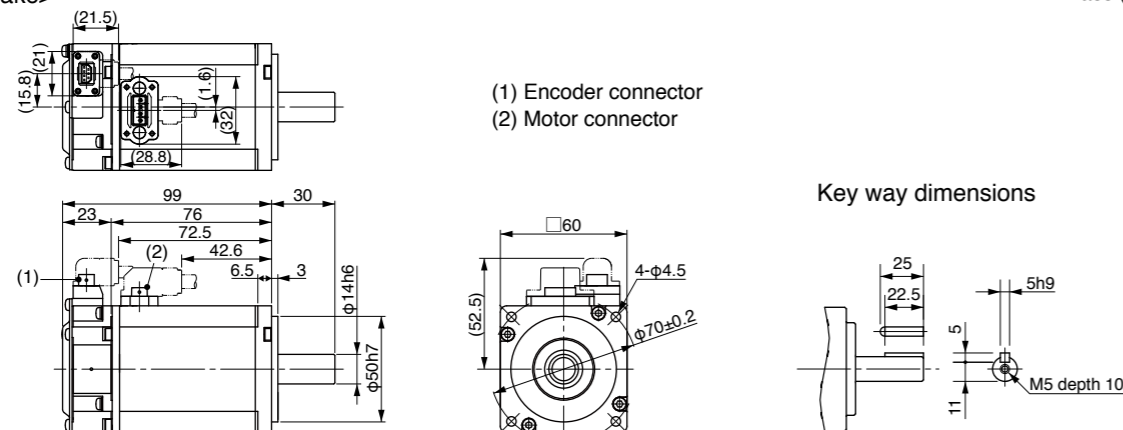
Torque characteristics (at AC100V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake>

Mass (kg)/ 1.2



* For the dimensions of with brake, refer to the right page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	042G1□	042S1□
Applicable driver *2	Model No.	A5 series	MBDHT2510
		A5E series	MBDHT2510E
	Frame symbol	B-frame	
Power supply capacity	(kVA)	0.9	
Rated output	(W)	400	
Rated torque	(N-m)	1.3	
Momentary Max. peak torque	(N-m)	3.8	
Rated current	(A(rms))	2.4	
Max. current	(A(o-p))	10.2	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	6000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	0.26	
	With brake	0.28	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

• For details of Note 1 to Note 5, refer to P.104.

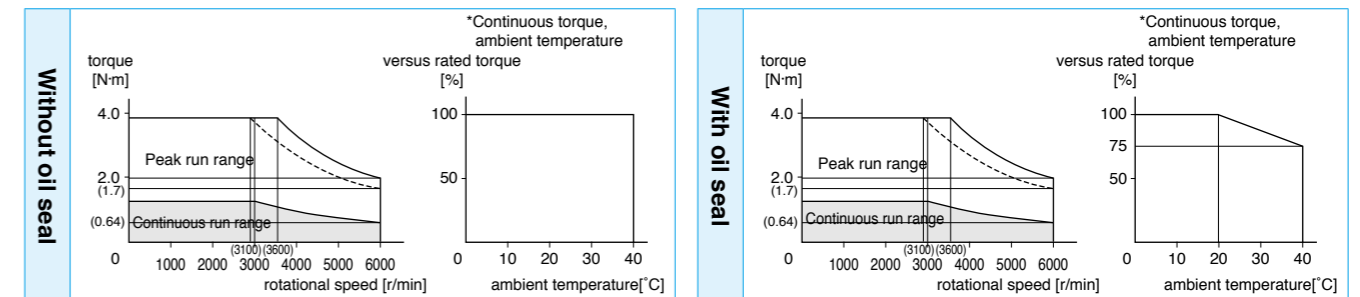
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

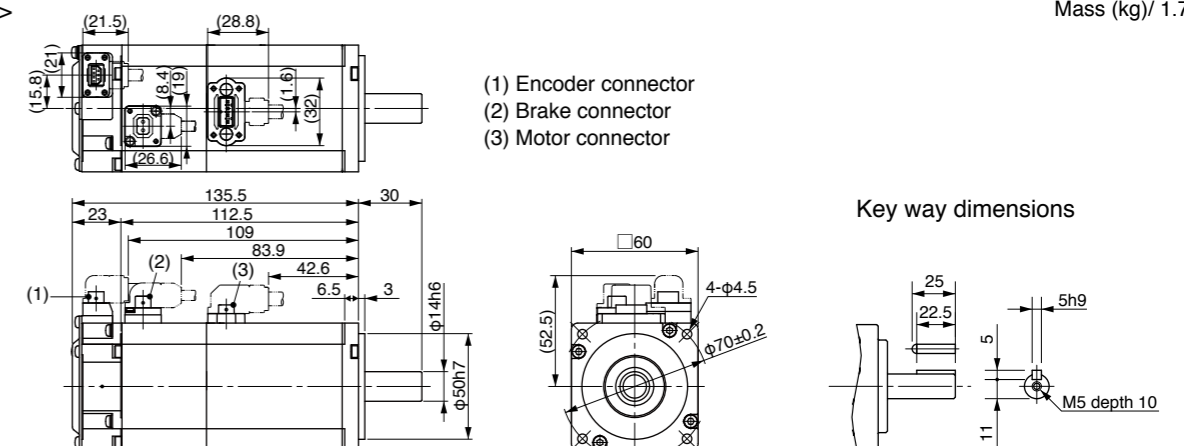
Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<With Brake>

Mass (kg)/ 1.7



* For the dimensions of without brake, refer to the left page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	082G1□	082S1□
Applicable driver *2	Model No.	A5 series	MCDHT3520
		A5E series	MCDHT3520E
	Frame symbol		C-frame
Power supply capacity	(kVA)	1.3	
Rated output	(W)	750	
Rated torque	(N-m)	2.4	
Momentary Max. peak torque	(N-m)	7.1	
Rated current	(A(rms))	4.1	
Max. current	(A(o-p))	17.4	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	6000	
Moment of inertia of rotor (×10 ⁻⁴ kg-m ²)	Without brake	0.87	
	With brake	0.97	
Recommended moment of inertia ratio of the load and the rotor Note3		20 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	2.45 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note4	20 or less
Exciting current (DC) (A)	0.42
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	686
	Thrust load A-direction (N)	294
	Thrust load B-direction (N)	392
During operation	Radial load P-direction (N)	392
	Thrust load A, B-direction (N)	147

• For details of Note 1 to Note 5, refer to P.104.

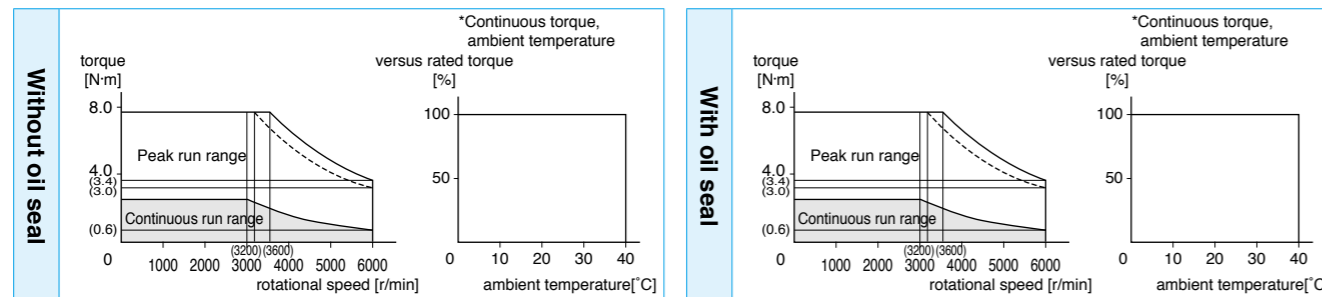
• Dimensions of Driver, refer to P.31.

*1 Rotary encoder specifications: □

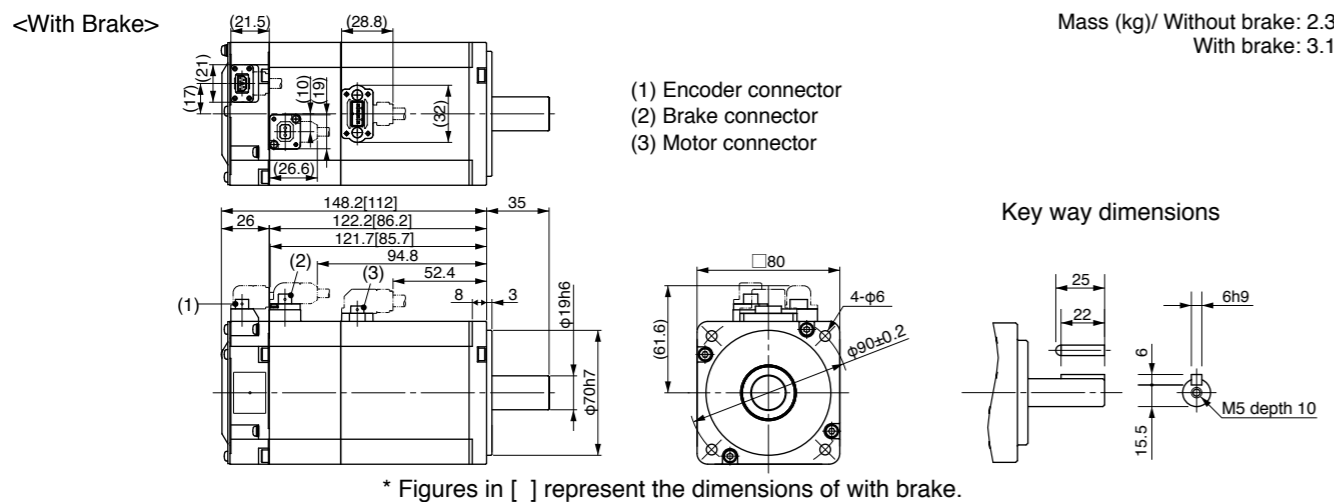
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	102G1□	102S1□
Applicable driver *2	Model No.	A5 series	MDDHT5540
		A5E series	MDDHT5540E
	Frame symbol		D-frame
Power supply capacity	(kVA)	1.8	
Rated output	(W)	1.0	
Rated torque	(N-m)	3.18	
Momentary Max. peak torque	(N-m)	9.55	
Rated current	(A(rms))	6.6	
Max. current	(A(o-p))	28	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4284	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg-m ²)	Without brake	2.03	
	With brake	2.35	
Recommended moment of inertia ratio of the load and the rotor Note3		15 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.81±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

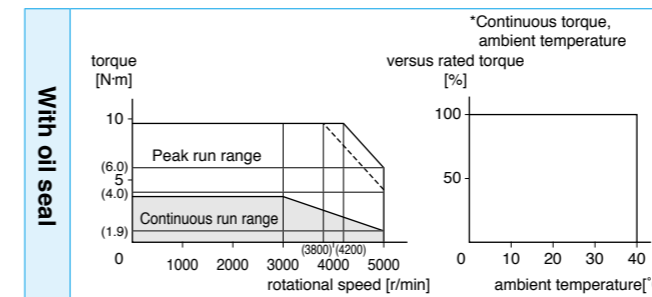
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

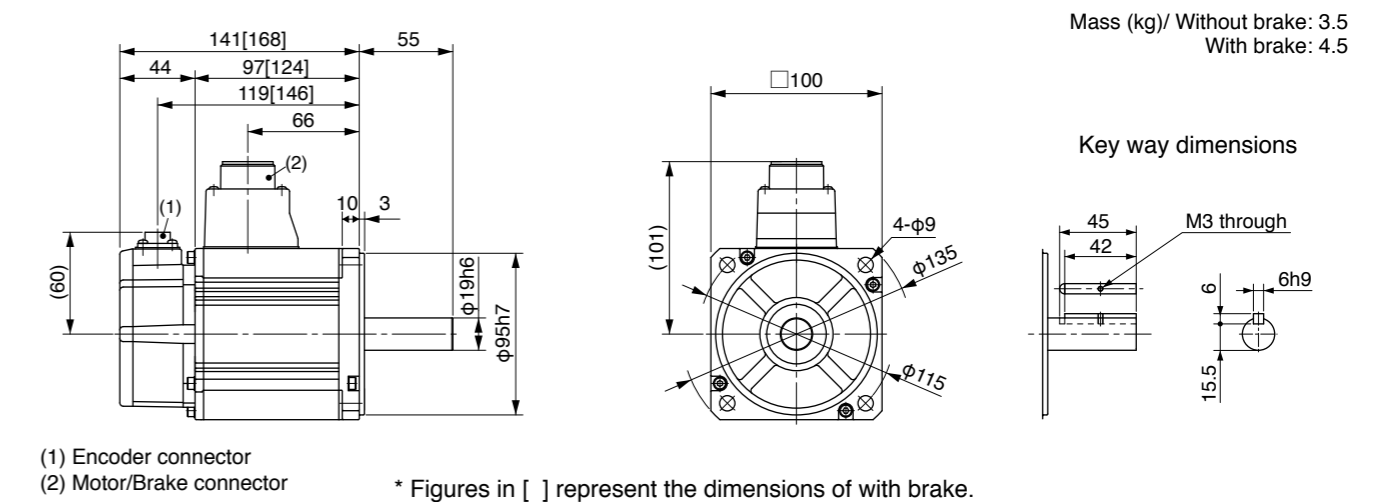
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	152G1□	152S1□
Applicable driver *2	Model No.	A5 series	MDDHT5540
		A5E series	MDDHT5540E
	Frame symbol		D-frame
Power supply capacity	(kVA)	2.3	
Rated output	(W)	1.5	
Rated torque	(N·m)	4.77	
Momentary Max. peak torque	(N·m)	14.3	
Rated current	(A(rms))	8.2	
Max. current	(A(o-p))	35	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4284	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	2.84	
	With brake	3.17	
Recommended moment of inertia ratio of the load and the rotor Note3		15 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.81±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

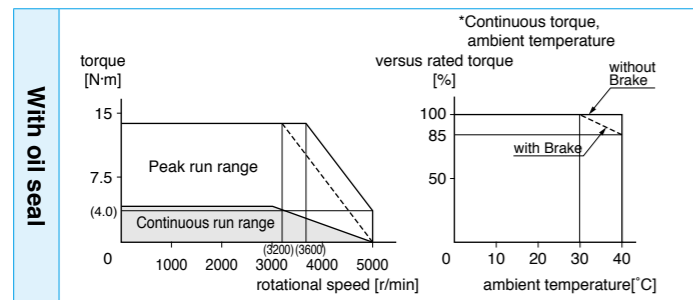
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

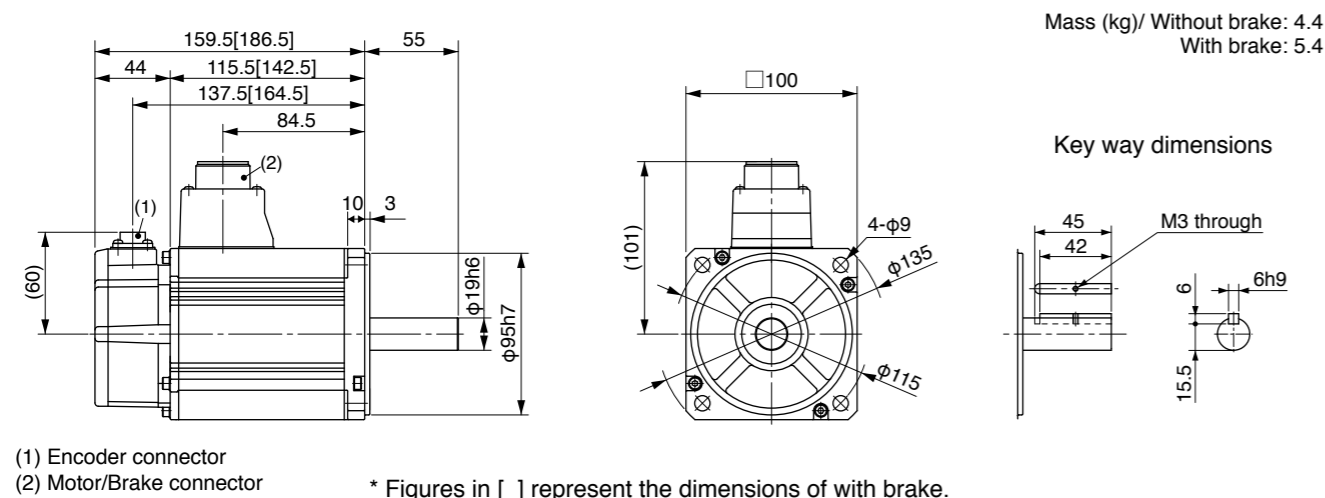
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	202G1□	202S1□
Applicable driver *2	Model No.	A5 series	MEDHT7364
		A5E series	MEDHT7364E
	Frame symbol		E-frame
Power supply capacity	(kVA)	3.3	
Rated output	(W)	2.0	
Rated torque	(N·m)	6.37	
Momentary Max. peak torque	(N·m)	19.1	
Rated current	(A(rms))	11.3	
Max. current	(A(o-p))	48	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	3.68	
	With brake	4.01	
Recommended moment of inertia ratio of the load and the rotor Note3		15 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.81±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

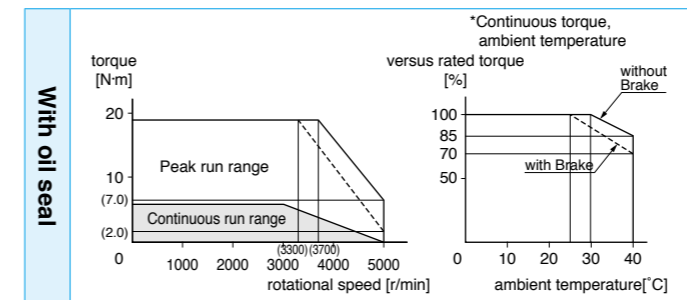
• Dimensions of Driver, refer to P.33.

*1 Rotary encoder specifications: □

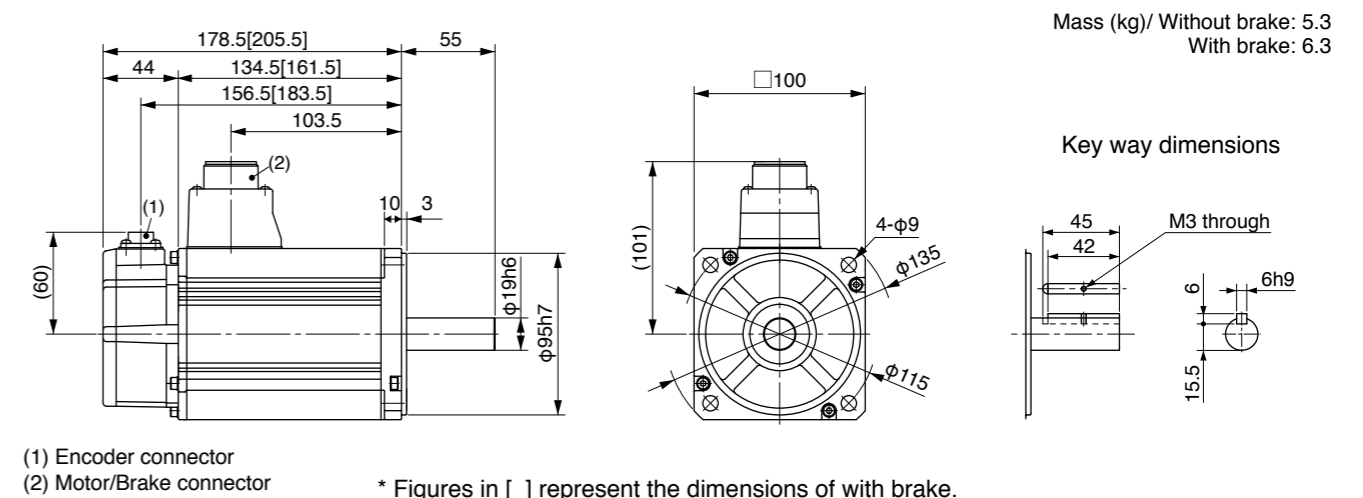
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	302G1□	302S1□
Applicable driver *2	Model No.	A5 series	MFDHTA390
		A5E series	MFDHTA390E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	4.5	
Rated output	(W)	3.0	
Rated torque	(N-m)	9.55	
Momentary Max. peak torque	(N-m)	28.6	
Rated current	(A(rms))	18.1	
Max. current	(A(o-p))	77	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285×2	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg-m ²)	Without brake	6.50	
	With brake	7.85	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	11.8 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.81±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

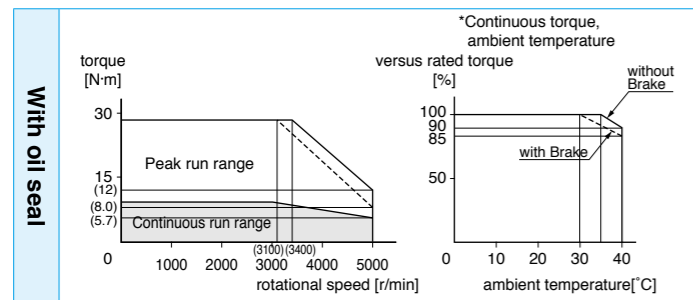
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

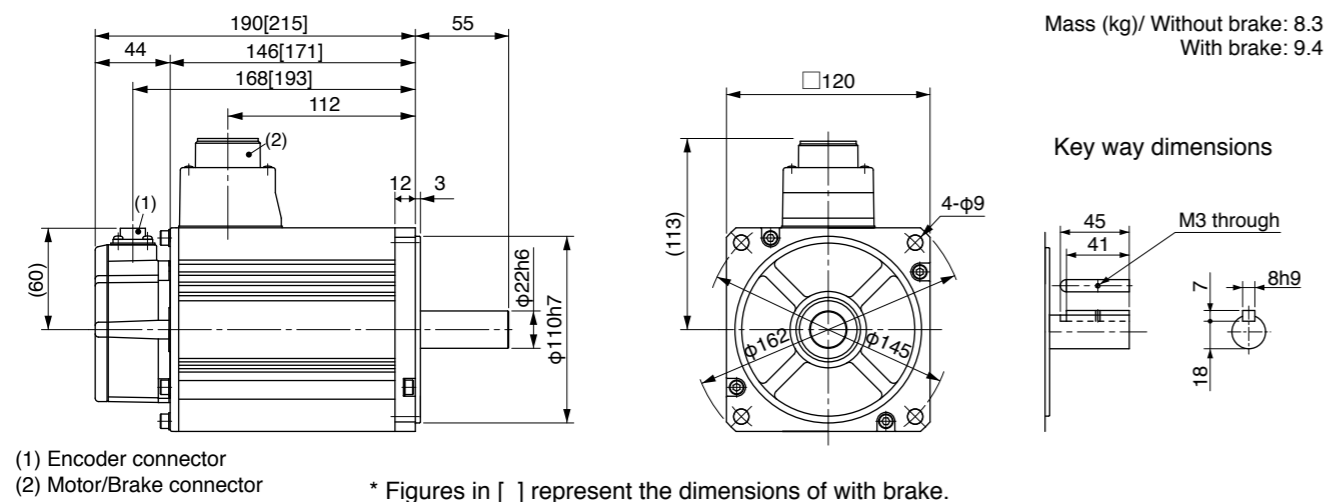
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
 Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
 Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	402G1□	402S1□
Applicable driver *2	Model No.	A5 series	MFDHTB3A2
		A5E series	MFDHTB3A2E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	6.0	
Rated output	(W)	4.0	
Rated torque	(N-m)	12.7	
Momentary Max. peak torque	(N-m)	38.2	
Rated current	(A(rms))	19.6	
Max. current	(A(o-p))	83	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285×2	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	4500	
Moment of inertia of rotor (×10 ⁻⁴ kg-m ²)	Without brake	12.9	
	With brake	14.2	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	16.1 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.90±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

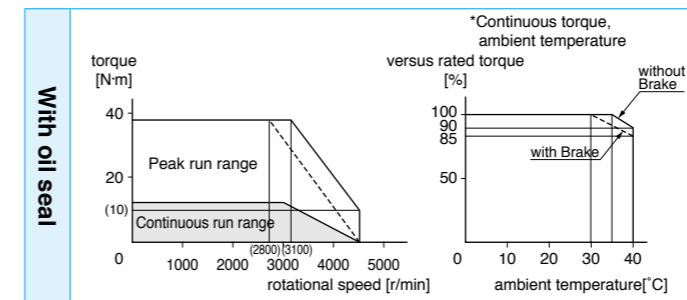
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

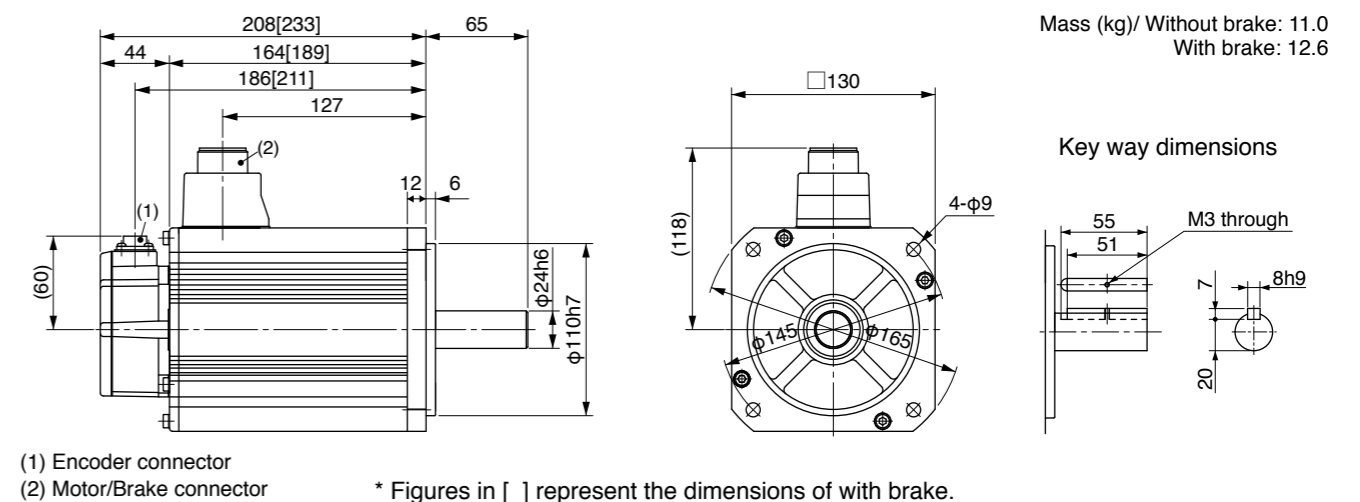
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
 Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
 Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSME	502G1 <input type="checkbox"/>	502S1 <input type="checkbox"/>
Applicable driver *2	Model No.	A5 series	MFDHTB3A2
		A5E series	MFDHTB3A2E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	7.5	
Rated output	(W)	5.0	
Rated torque	(N-m)	15.9	
Momentary Max. peak torque	(N-m)	47.7	
Rated current	(A(rms))	24.0	
Max. current	(A(o-p))	102	
Regenerative brake frequency (times/min) Note1	Without option	357	
	DV0P4285x2	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	4500	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	17.4	
	With brake	18.6	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	16.1 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.90±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

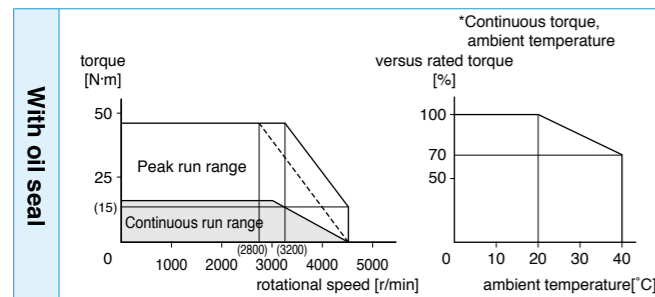
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications:

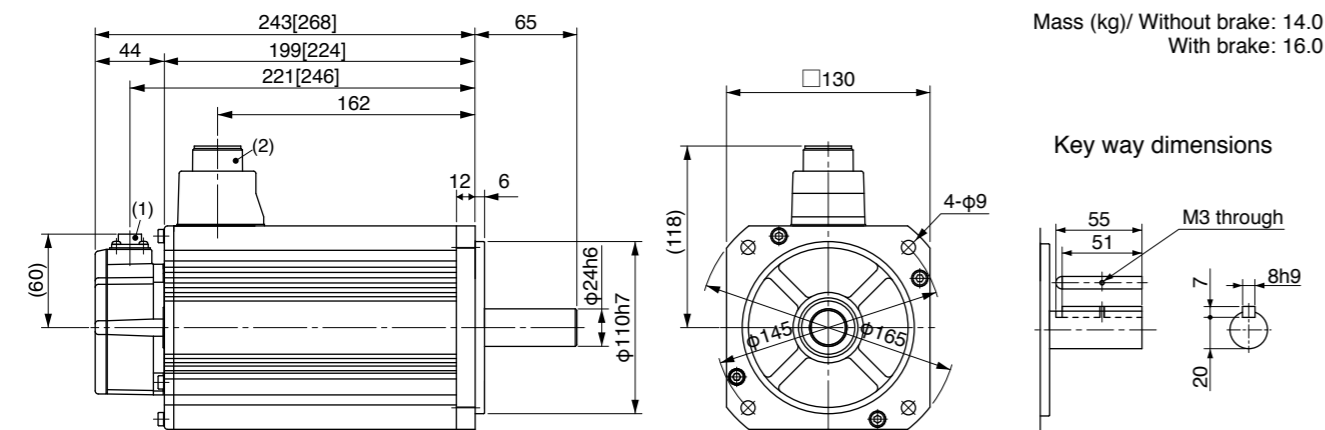
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MDME	102G1 <input type="checkbox"/>	102S1 <input type="checkbox"/>
Applicable driver *2	Model No.	A5 series	MDDHT3530
		A5E series	MDDHT3530E
	Frame symbol	D-frame	
Power supply capacity	(kVA)	1.8	
Rated output	(W)	1.0	
Rated torque	(N-m)	4.77	
Momentary Max. peak torque	(N-m)	14.3	
Rated current	(A(rms))	5.7	
Max. current	(A(o-p))	24	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4284	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	4.60	
	With brake	5.90	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	70 or less
Exciting current (DC) (A)	0.59±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

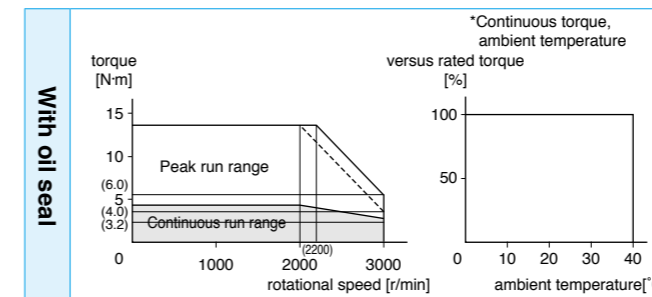
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications:

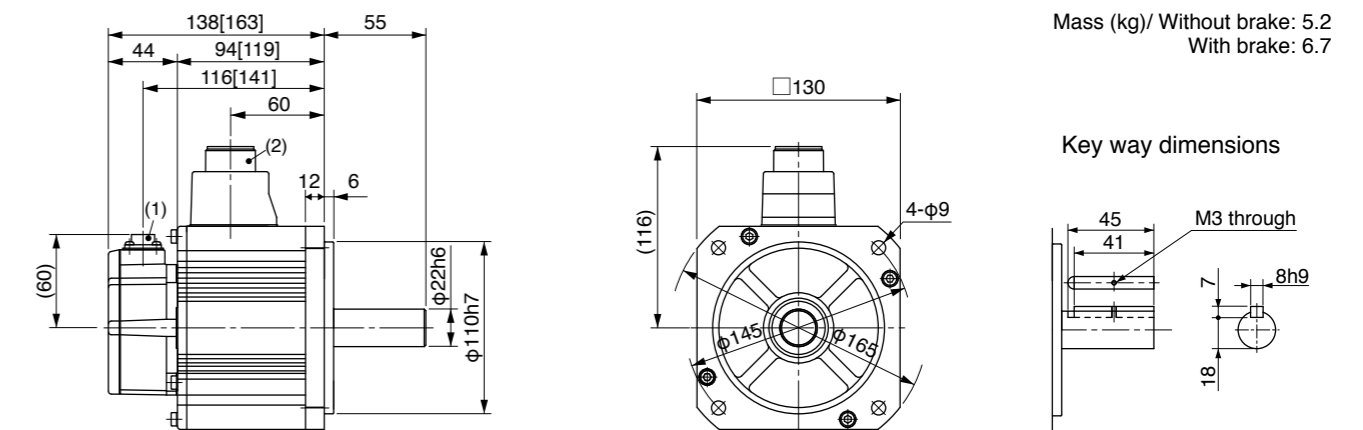
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MDME	152G1□	152S1□
Applicable driver *2	Model No.	A5 series	MDDHT5540
		A5E series	MDDHT5540E
	Frame symbol		D-frame
Power supply capacity	(kVA)	2.3	
Rated output	(W)	1.5	
Rated torque	(N-m)	7.16	
Momentary Max. peak torque	(N-m)	21.5	
Rated current	(A(rms))	9.4	
Max. current	(A(o-p))	40	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4284	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	6.70	
	With brake	7.99	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

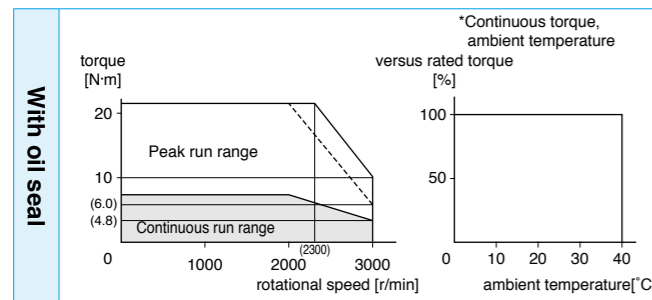
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

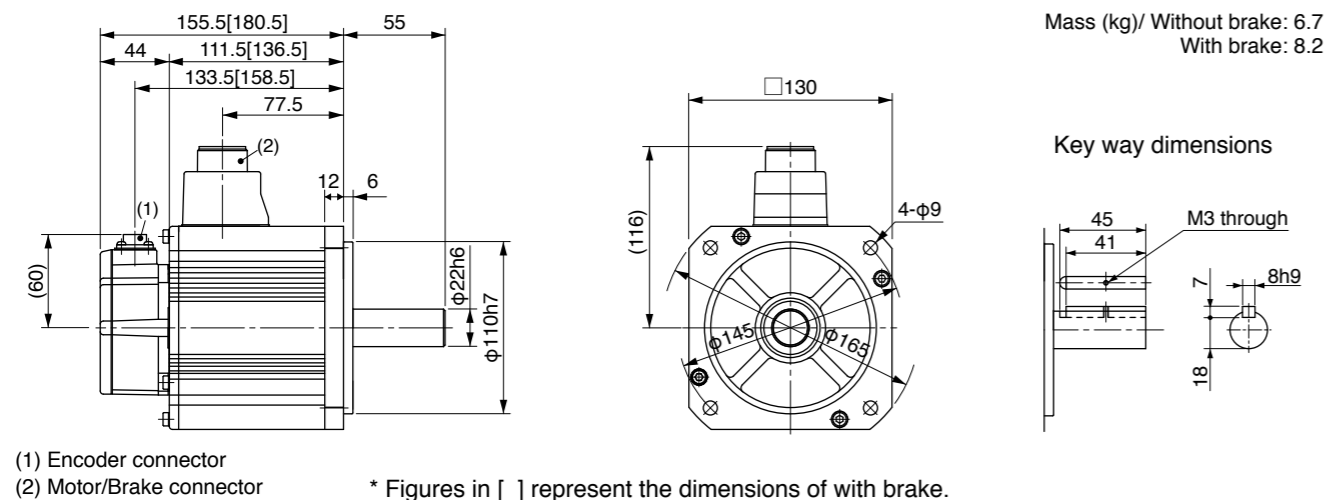
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



(1) Encoder connector
(2) Motor/Brake connector
* Figures in [] represent the dimensions of with brake.
<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MDME	202G1□	202S1□
Applicable driver *2	Model No.	A5 series	MEDHT7364
		A5E series	MEDHT7364E
	Frame symbol		E-frame
Power supply capacity	(kVA)	3.3	
Rated output	(W)	2.0	
Rated torque	(N-m)	9.55	
Momentary Max. peak torque	(N-m)	28.6	
Rated current	(A(rms))	11.5	
Max. current	(A(o-p))	49	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	8.72	
	With brake	10.0	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

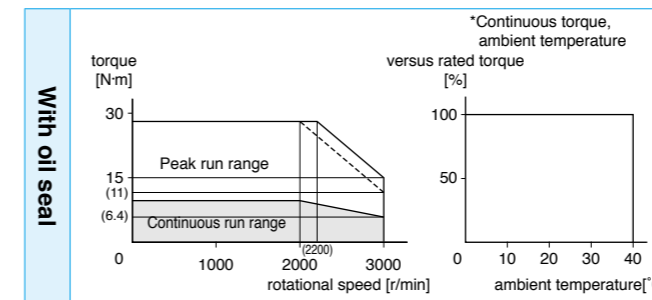
• Dimensions of Driver, refer to P.33.

*1 Rotary encoder specifications: □

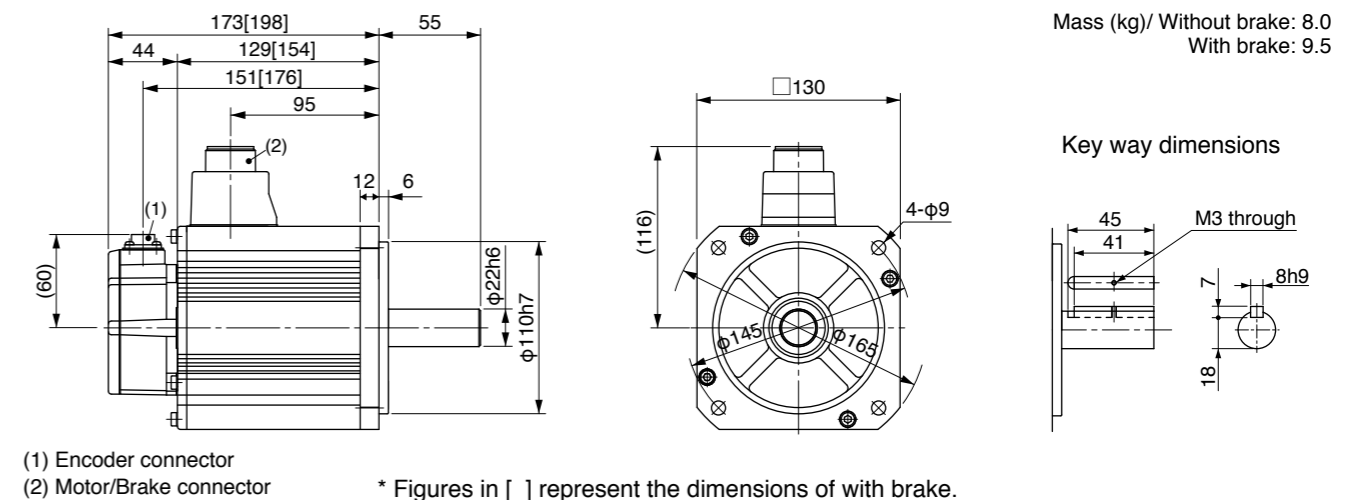
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



(1) Encoder connector
(2) Motor/Brake connector
* Figures in [] represent the dimensions of with brake.
<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MDME	302G1□	302S1□
Applicable driver *2	Model No.	A5 series	MFDHTA390
		A5E series	MFDHTA390E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	4.5	
Rated output	(W)	3.0	
Rated torque	(N-m)	14.3	
Momentary Max. peak torque	(N-m)	43.0	
Rated current	(A(rms))	17.4	
Max. current	(A(o-p))	74	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285×2	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	12.9	
	With brake	14.2	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	16.2 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.90±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

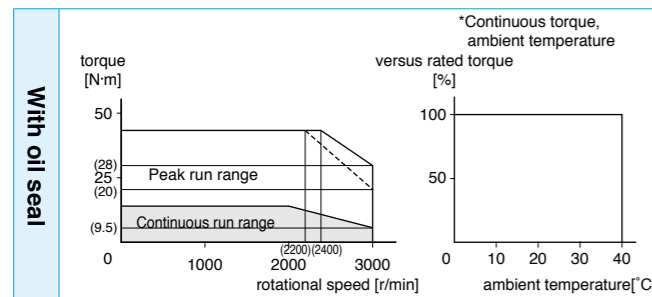
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

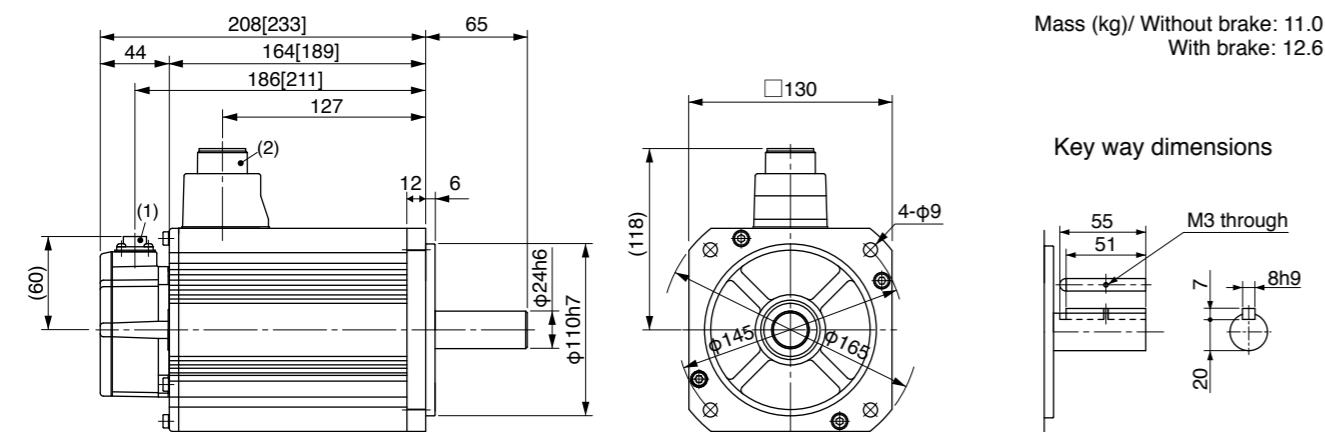
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 11.0
With brake: 12.6

(1) Encoder connector
(2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MDME	402G1□	402S1□
Applicable driver *2	Model No.	A5 series	MFDHTB3A2
		A5E series	MFDHTB3A2E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	6.0	
Rated output	(W)	4.0	
Rated torque	(N-m)	19.1	
Momentary Max. peak torque	(N-m)	57.3	
Rated current	(A(rms))	21.0	
Max. current	(A(o-p))	89	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285×2	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	37.6	
	With brake	38.6	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

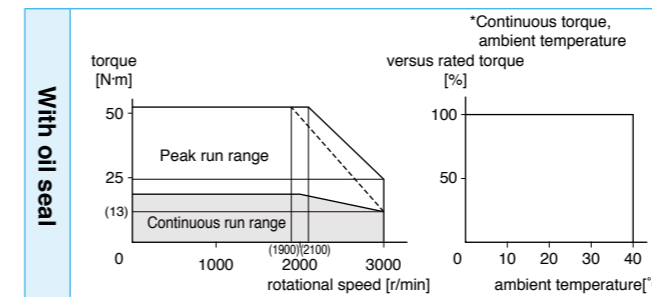
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

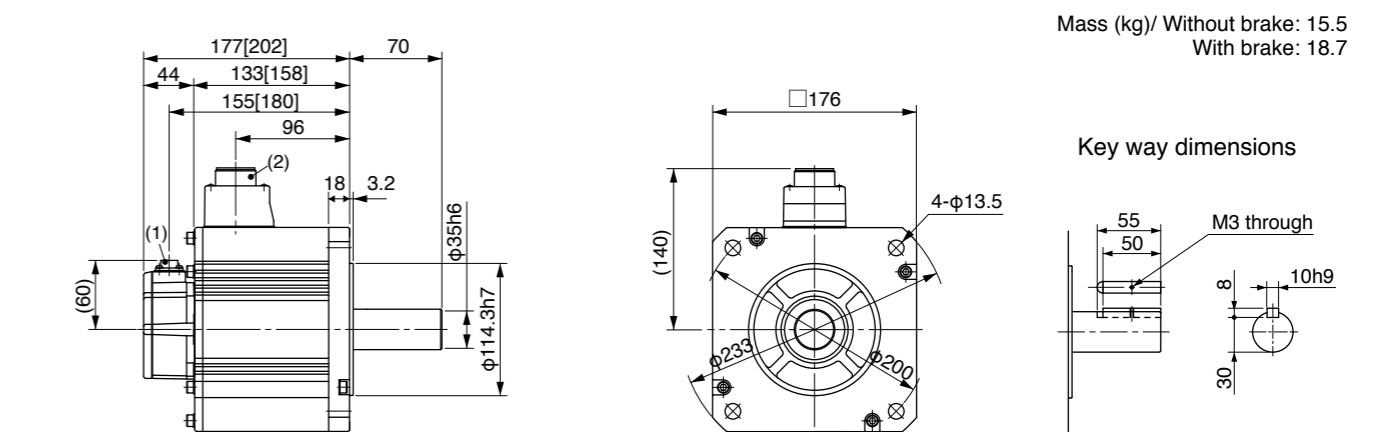
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 15.5
With brake: 18.7

(1) Encoder connector
(2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MDME	502G1	502S1
Applicable driver *2	Model No.	MFDHTB3A2	
		MFDHTB3A2E	
	Frame symbol	F-frame	
Power supply capacity	(kVA)	7.5	
Rated output	(W)	5.0	
Rated torque	(N-m)	23.9	
Momentary Max. peak torque	(N-m)	71.6	
Rated current	(A(rms))	25.9	
Max. current	(A(o-p))	110	
Regenerative brake frequency (times/min) Note1	Without option	120	
	DV0P4285x2	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	48.0	
	With brake	48.8	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

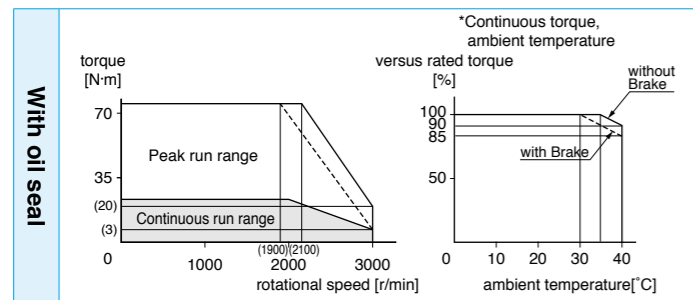
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

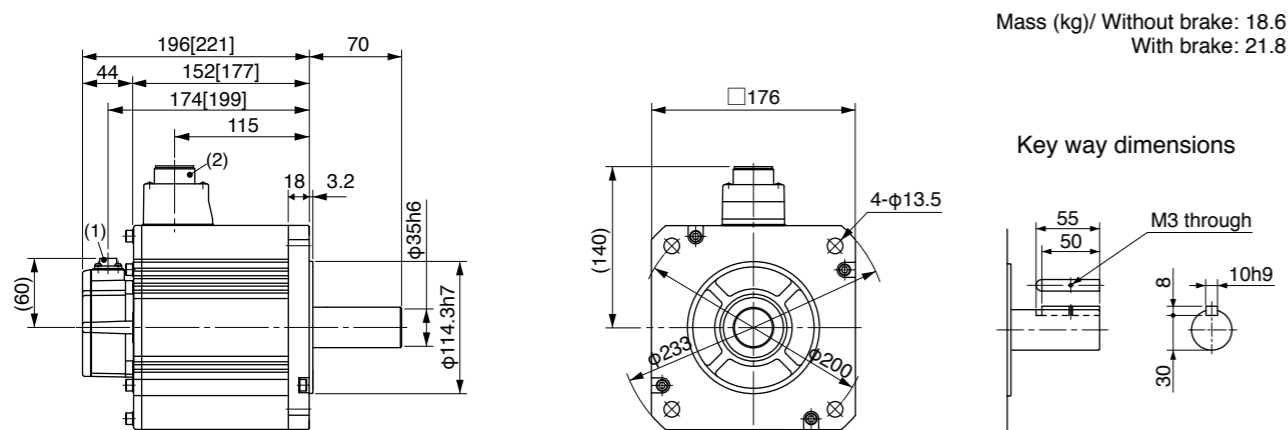
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MGME	092G1	092S1
Applicable driver *2	Model No.	MDDHT5540	
		MDDHT5540E	
	Frame symbol	D-frame	
Power supply capacity	(kVA)	1.8	
Rated output	(W)	0.9	
Rated torque	(N-m)	8.59	
Momentary Max. peak torque	(N-m)	19.3	
Rated current	(A(rms))	7.6	
Max. current	(A(o-p))	24	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4284	No limit Note2	
Rated rotational speed	(r/min)	1000	
Max. rotational speed	(r/min)	2000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	6.70	
	With brake	7.99	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	686
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

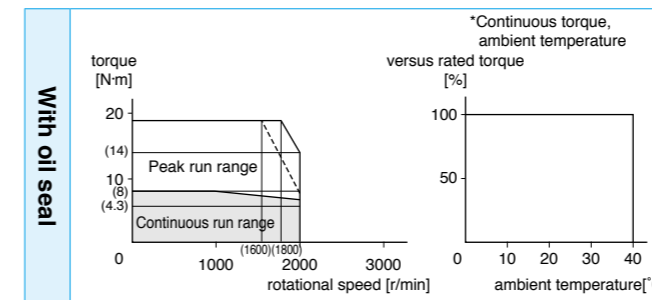
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

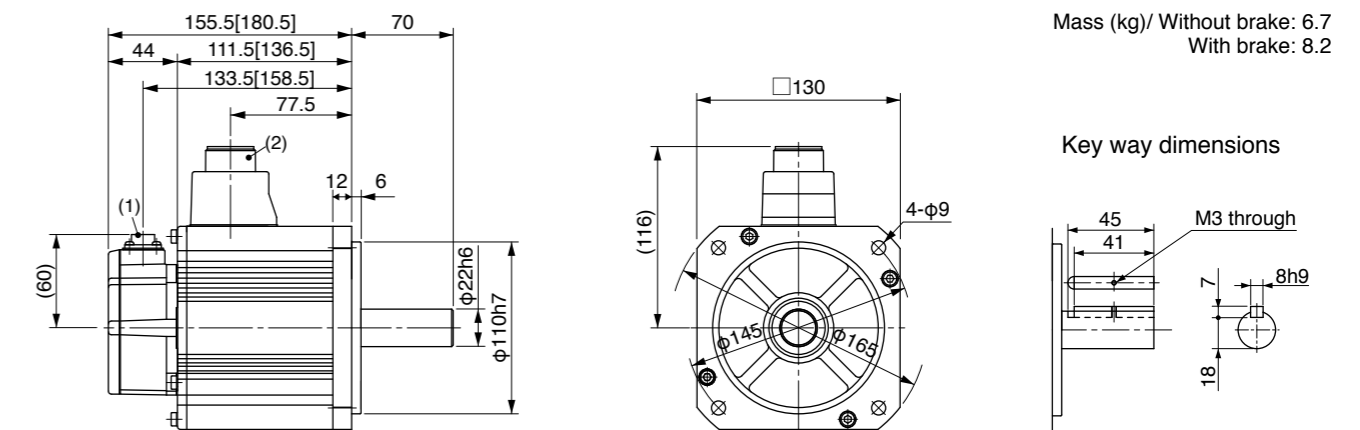
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MGME	202G1	202S1
Applicable driver *2	Model No.	A5 series	MFDHTA390
		A5E series	MFDHTA390E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	3.8	
Rated output	(W)	2.0	
Rated torque	(N-m)	19.1	
Momentary Max. peak torque	(N-m)	47.7	
Rated current	(A(rms))	17.0	
Max. current	(A(o-p))	60	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285x2	No limit Note2	
Rated rotational speed	(r/min)	1000	
Max. rotational speed	(r/min)	2000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	30.3	
	With brake	31.4	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• Brake specifications (For details, refer to P.105)

(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	1176
	Thrust load A, B-direction (N)	490

• For details of Note 1 to Note 5, refer to P.104.

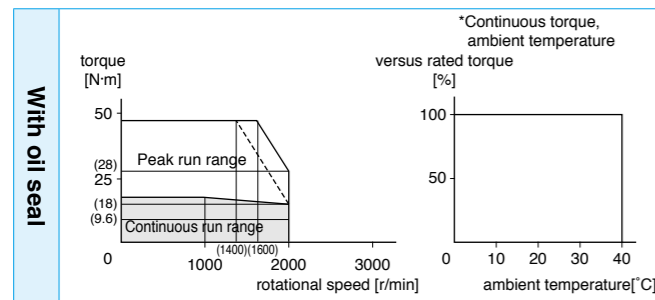
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

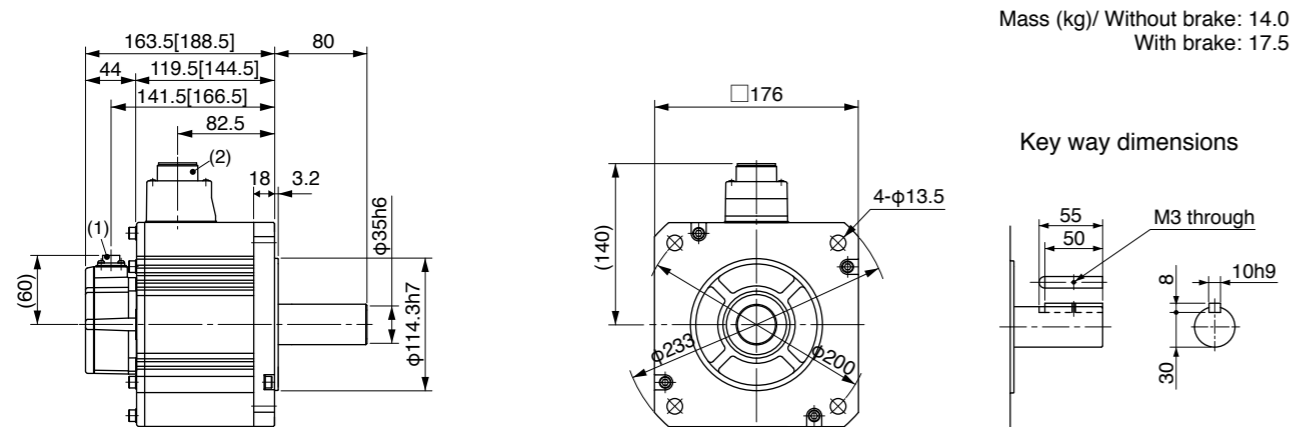
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 14.0
With brake: 17.5

(1) Encoder connector
(2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MGME	302G1	302S1
Applicable driver *2	Model No.	A5 series	MFDHTB3A2
		A5E series	MFDHTB3A2E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	4.5	
Rated output	(W)	3.0	
Rated torque	(N-m)	28.7	
Momentary Max. peak torque	(N-m)	71.7	
Rated current	(A(rms))	22.6	
Max. current	(A(o-p))	80	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285x2	No limit Note2	
Rated rotational speed	(r/min)	1000	
Max. rotational speed	(r/min)	2000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	48.4	
	With brake	49.2	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• Brake specifications (For details, refer to P.105)

(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	1.4±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.104)

During assembly	Radial load P-direction (N)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1470
	Thrust load A, B-direction (N)	490

• For details of Note 1 to Note 5, refer to P.104.

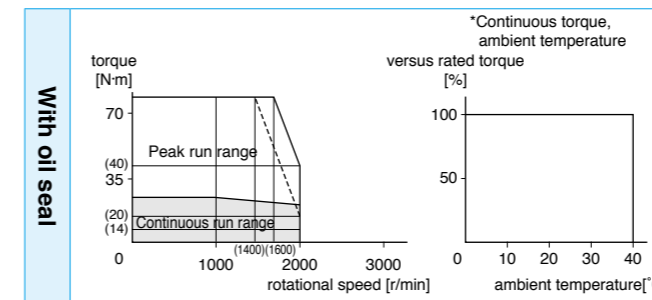
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

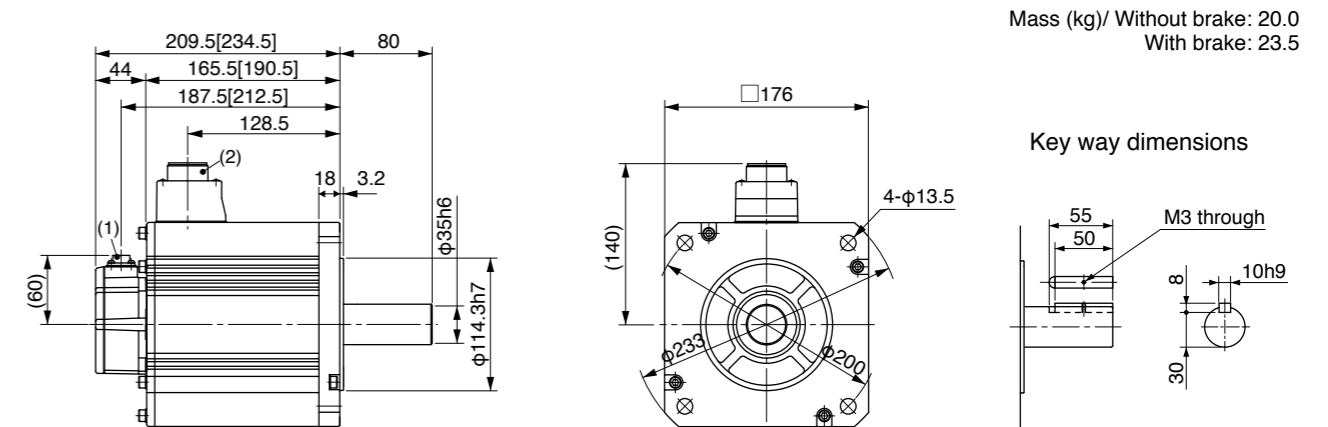
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 20.0
With brake: 23.5

(1) Encoder connector
(2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MHME	102G1□	102S1□
Applicable driver *2	Model No.	MDDHT3530	
	A5 series		
	A5E series	MDDHT3530E	
	Frame symbol	D-frame	
Power supply capacity	(kVA)	1.8	
Rated output	(W)	1.0	
Rated torque	(N-m)	4.77	
Momentary Max. peak torque	(N-m)	14.3	
Rated current	(A(rms))	5.7	
Max. current	(A(o-p))	24	
Regenerative brake frequency (times/min) Note1	Without option	83	
	DV0P4284	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	24.7	
	With brake	26.0	
Recommended moment of inertia ratio of the load and the rotor Note3		5 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	4.9
Engaging time (ms)	80 or less
Releasing time (ms) Note4	70 or less
Exciting current (DC) (A)	0.59±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

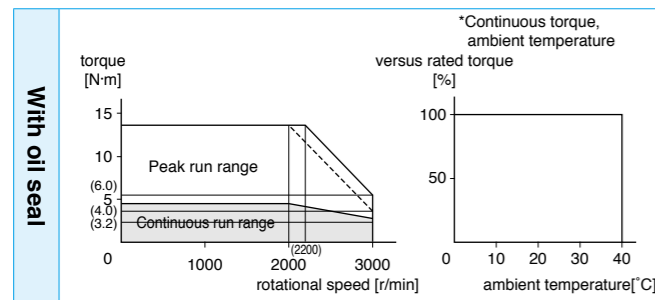
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

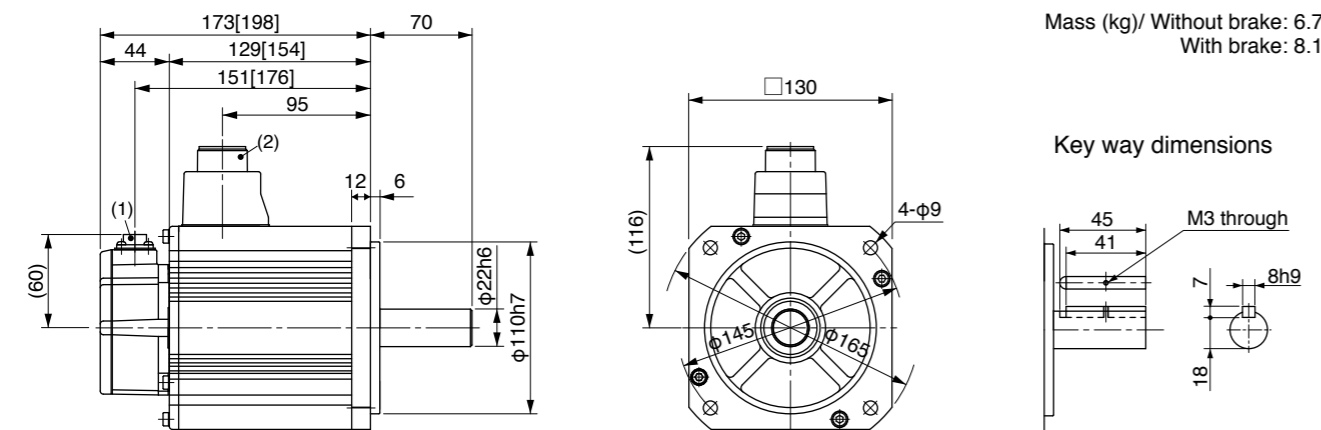
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 6.7
 With brake: 8.1

Key way dimensions

(1) Encoder connector
 (2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MHME	152G1□	152S1□
Applicable driver *2	Model No.	MDDHT5540	
	A5 series		
	A5E series	MDDHT5540E	
	Frame symbol	D-frame	
Power supply capacity	(kVA)	2.3	
Rated output	(W)	1.5	
Rated torque	(N-m)	7.16	
Momentary Max. peak torque	(N-m)	21.5	
Rated current	(A(rms))	9.4	
Max. current	(A(o-p))	40	
Regenerative brake frequency (times/min) Note1	Without option	22	
	DV0P4284	130	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	37.1	
	With brake	38.4	
Recommended moment of inertia ratio of the load and the rotor Note3		5 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

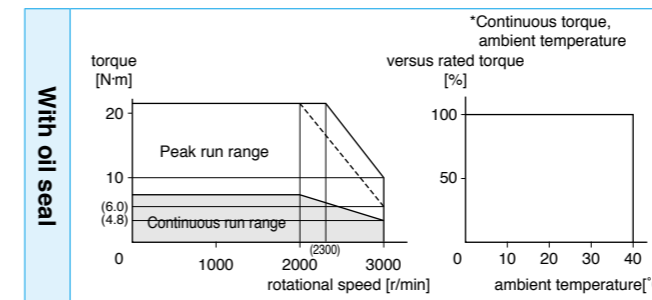
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

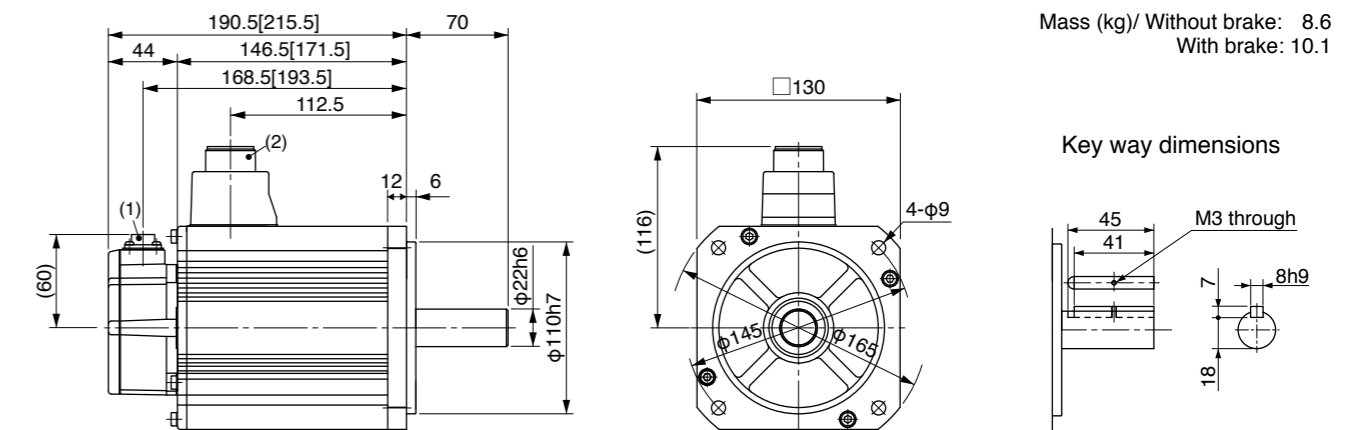
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 8.6
 With brake: 10.1

Key way dimensions

(1) Encoder connector
 (2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MHME	202G1□	202S1□
Applicable driver *2	Model No.	MEDHT7364	
		MEDHT7364E	
	Frame symbol	E-frame	
Power supply capacity	(kVA)	3.3	
Rated output	(W)	2.0	
Rated torque	(N-m)	9.55	
Momentary Max. peak torque	(N-m)	28.6	
Rated current	(A(rms))	11.1	
Max. current	(A(o-p))	47	
Regenerative brake frequency (times/min) Note1	Without option	45	
	DV0P4285	142	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	57.8	
	With brake	59.6	
Recommended moment of inertia ratio of the load and the rotor Note3		5 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

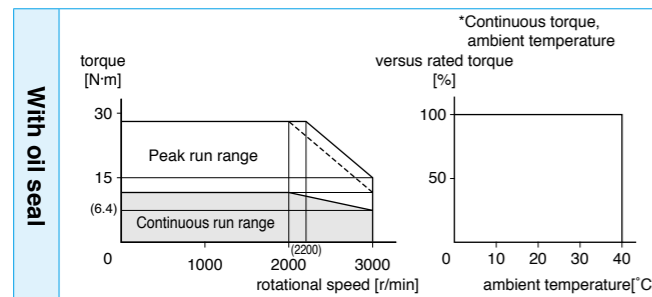
• Dimensions of Driver, refer to P.33.

*1 Rotary encoder specifications: □

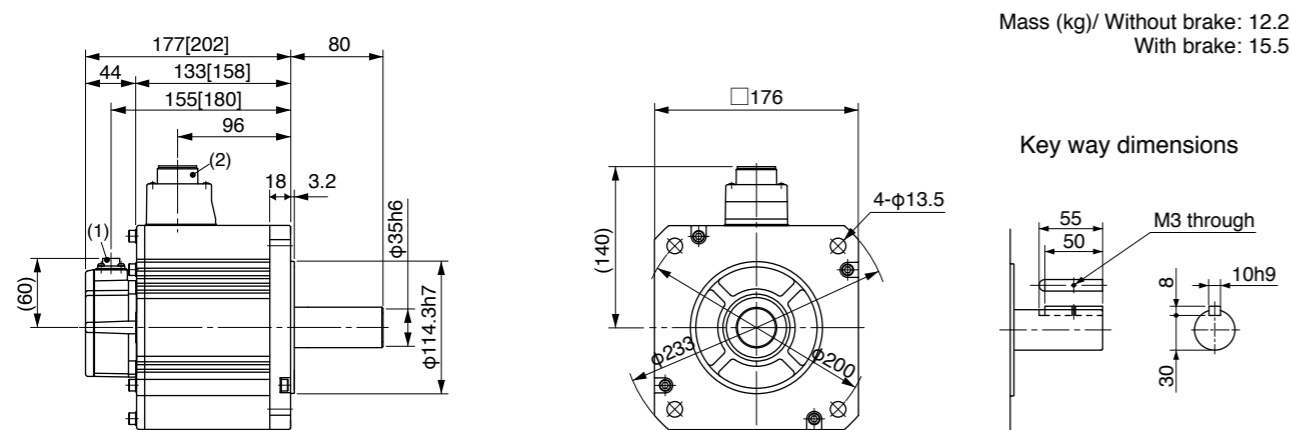
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



(1) Encoder connector
(2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MHME	302G1□	302S1□
Applicable driver *2	Model No.	MFDHTA390	
		MFDHTA390E	
	Frame symbol	F-frame	
Power supply capacity	(kVA)	4.5	
Rated output	(W)	3.0	
Rated torque	(N-m)	14.3	
Momentary Max. peak torque	(N-m)	43.0	
Rated current	(A(rms))	16.0	
Max. current	(A(o-p))	68	
Regenerative brake frequency (times/min) Note1	Without option	19	
	DV0P4285x2	142	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	90.5	
	With brake	92.1	
Recommended moment of inertia ratio of the load and the rotor Note3		5 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

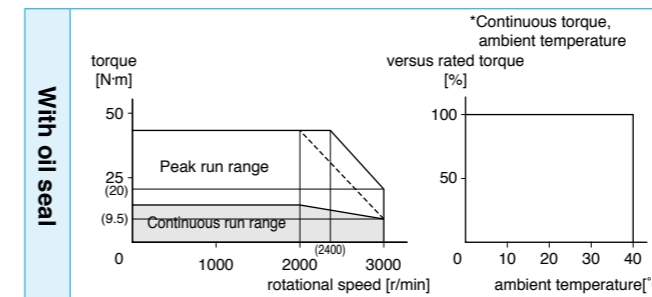
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

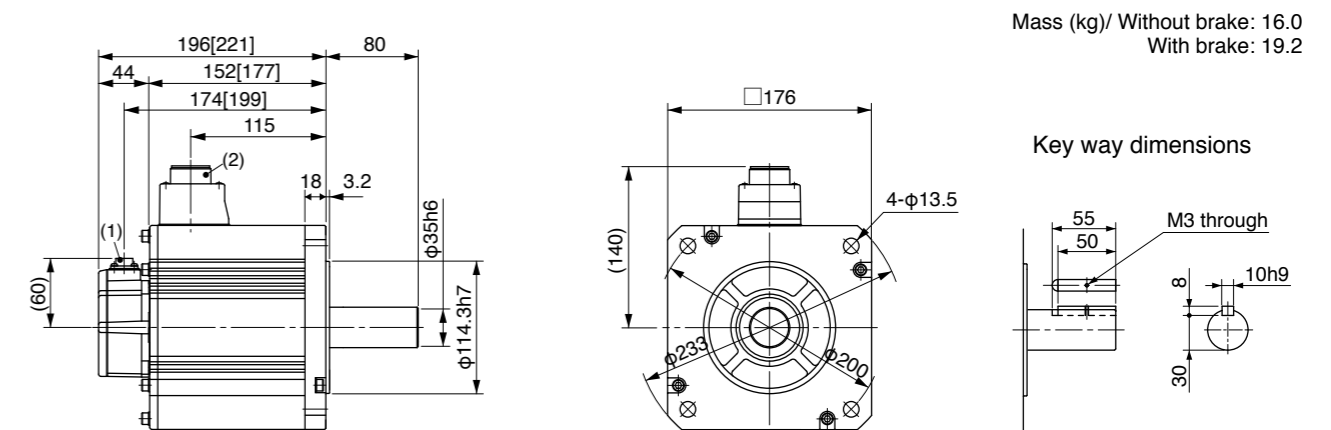
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



(1) Encoder connector
(2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MHME	402G1□	402S1□
Applicable driver *2	Model No.	A5 series	MFDHTB3A2
		A5E series	MFDHTB3A2E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	6.0	
Rated output	(W)	4.0	
Rated torque	(N-m)	19.1	
Momentary Max. peak torque	(N-m)	57.3	
Rated current	(A(rms))	21.0	
Max. current	(A(o-p))	89	
Regenerative brake frequency (times/min) Note1	Without option	17	
	DV0P4285×2	125	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (×10 ⁻⁴ kg-m ²)	Without brake	112	
	With brake	114	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

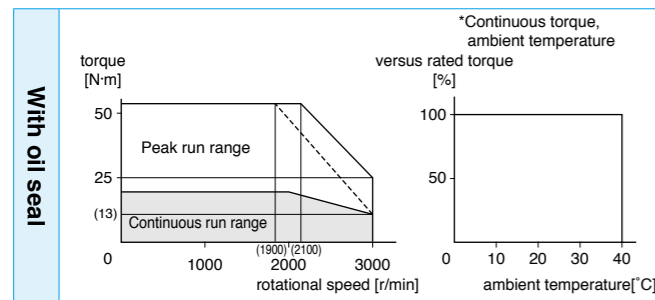
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

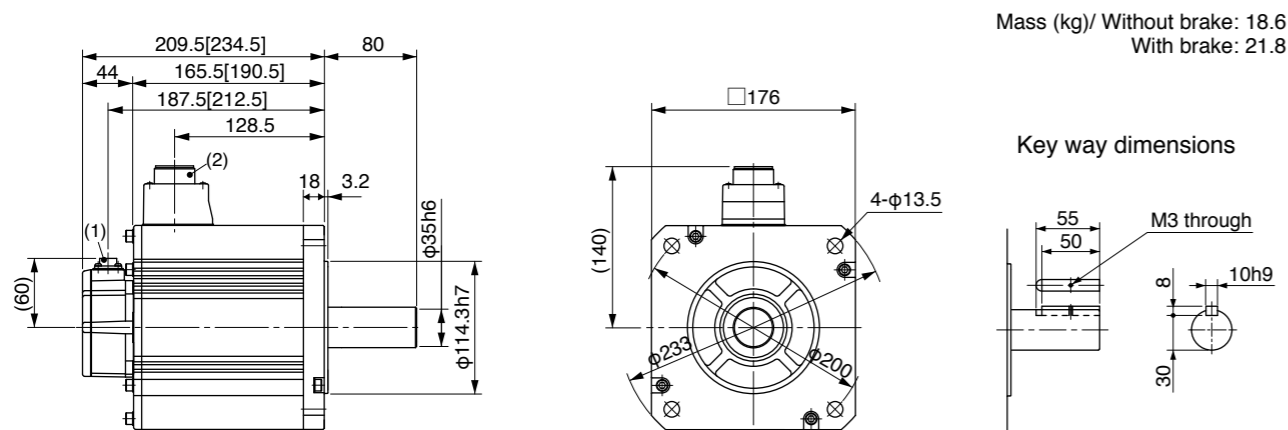
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 18.6
 With brake: 21.8

(1) Encoder connector
 (2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MHME	502G1□	502S1□
Applicable driver *2	Model No.	A5 series	MFDHTB3A2
		A5E series	MFDHTB3A2E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	7.5	
Rated output	(W)	5.0	
Rated torque	(N-m)	23.9	
Momentary Max. peak torque	(N-m)	71.6	
Rated current	(A(rms))	25.9	
Max. current	(A(o-p))	110	
Regenerative brake frequency (times/min) Note1	Without option	10	
	DV0P4285×2	76	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (×10 ⁻⁴ kg-m ²)	Without brake	162	
	With brake	164	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

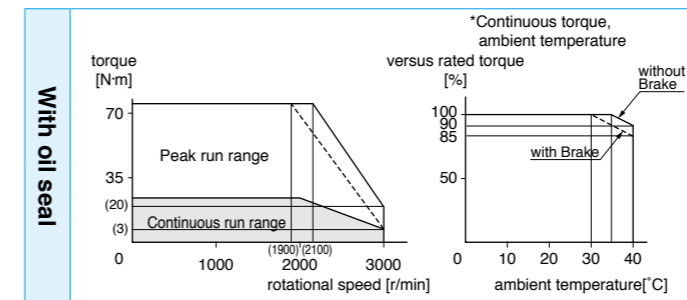
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

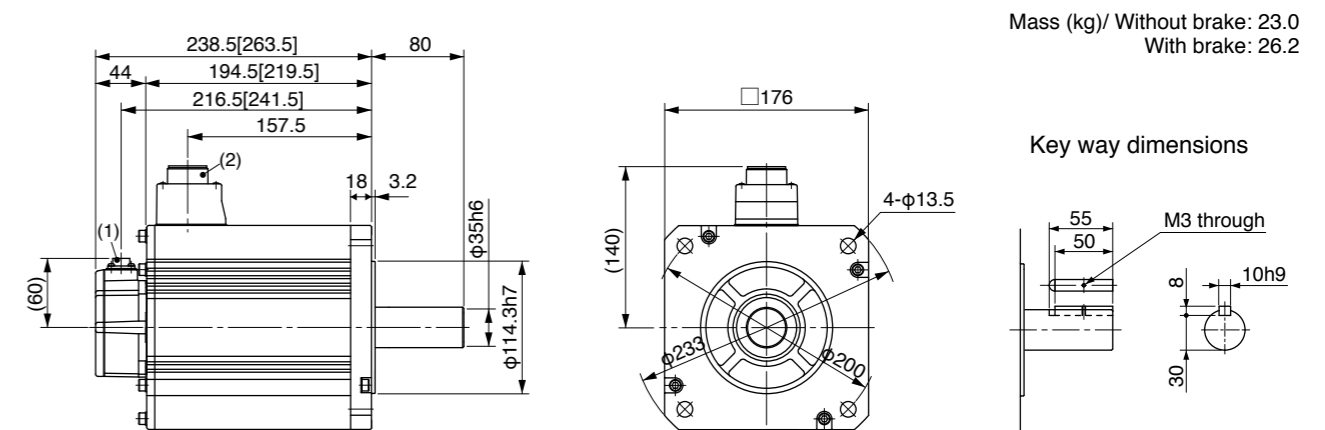
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 23.0
 With brake: 26.2

(1) Encoder connector
 (2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC100V	
Motor model *1	MSMD	5AZG1□	5AZS1□
Applicable driver *2	Model No.	A5 series	MADHT1105
		A5E series	MADHT1105E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.5	
Rated output	(W)	50	
Rated torque	(N-m)	0.16	
Momentary Max. peak torque	(N-m)	0.48	
Rated current	(A(rms))	1.1	
Max. current	(A(o-p))	4.7	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4280	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor ($\times 10^{-4}$ kg-m ²)	Without brake	0.025	
	With brake	0.027	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During operation	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

• For details of Note 1 to Note 5, refer to P.104.

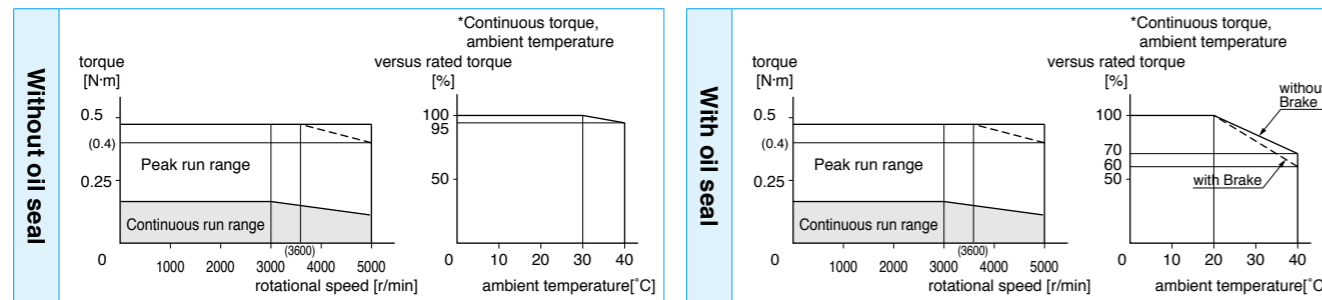
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

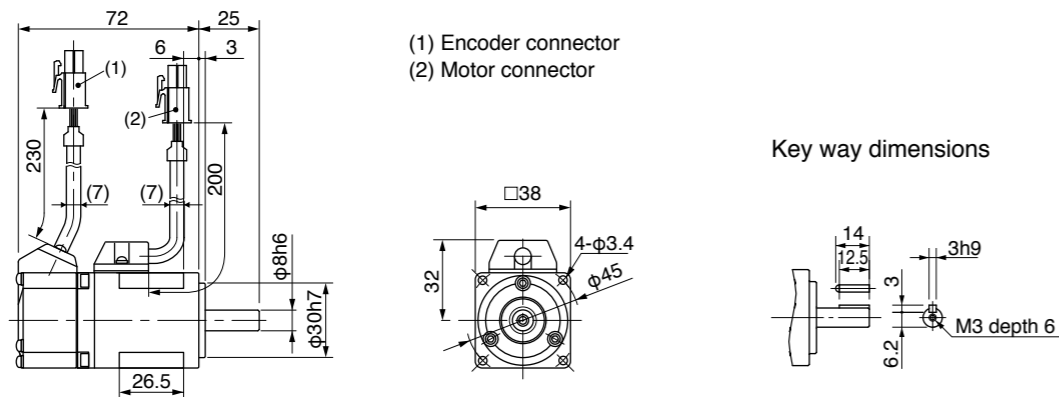
Torque characteristics (at AC100V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake>

Mass (kg)/ 0.32



* For the dimensions of with brake, refer to the right page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSMD	5AZG1□	5AZS1□
Applicable driver *2	Model No.	A5 series	MADHT1505
		A5E series	MADHT1505E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.5	
Rated output	(W)	50	
Rated torque	(N-m)	0.16	
Momentary Max. peak torque	(N-m)	0.48	
Rated current	(A(rms))	1.1	
Max. current	(A(o-p))	4.7	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4281	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor ($\times 10^{-4}$ kg-m ²)	Without brake	0.025	
	With brake	0.027	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During operation	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

• For details of Note 1 to Note 5, refer to P.104.

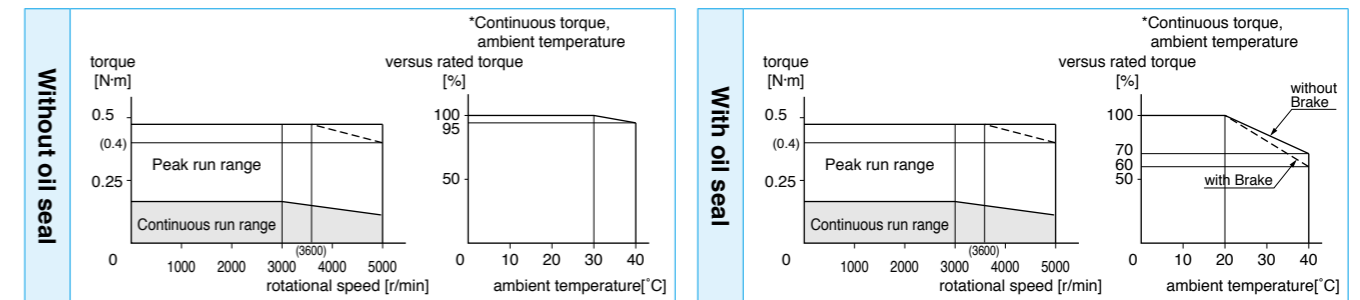
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

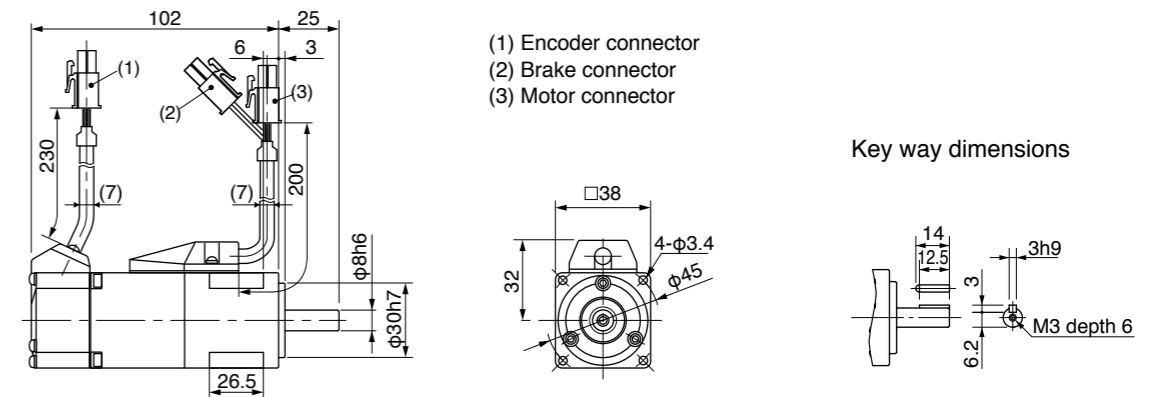
Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<With Brake>

Mass (kg)/ 0.53



* For the dimensions of without brake, refer to the left page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC100V	
Motor model *1	MSMD	011G1□	011S1□
Applicable driver *2	Model No.	A5 series	MADHT1107
		A5E series	MADHT1107E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.4	
Rated output	(W)	100	
Rated torque	(N·m)	0.32	
Momentary Max. peak torque	(N·m)	0.95	
Rated current	(A(rms))	1.7	
Max. current	(A(o-p))	7.2	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4280	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.051	
	With brake	0.054	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During operation	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

• For details of Note 1 to Note 5, refer to P.104.

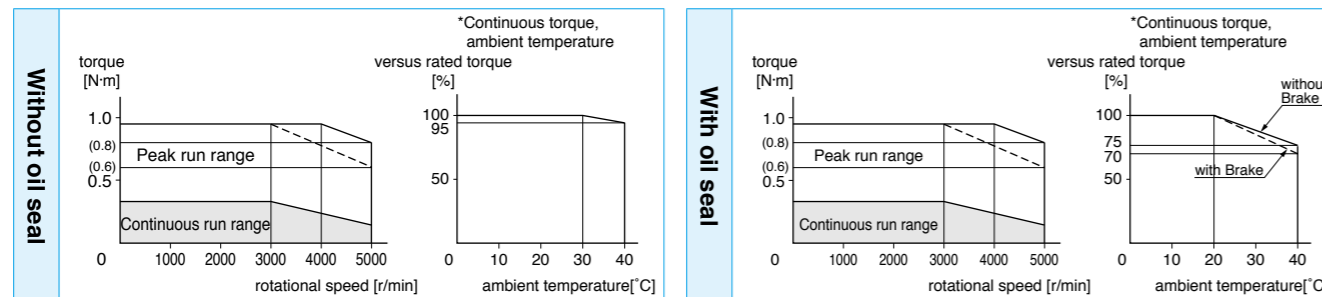
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

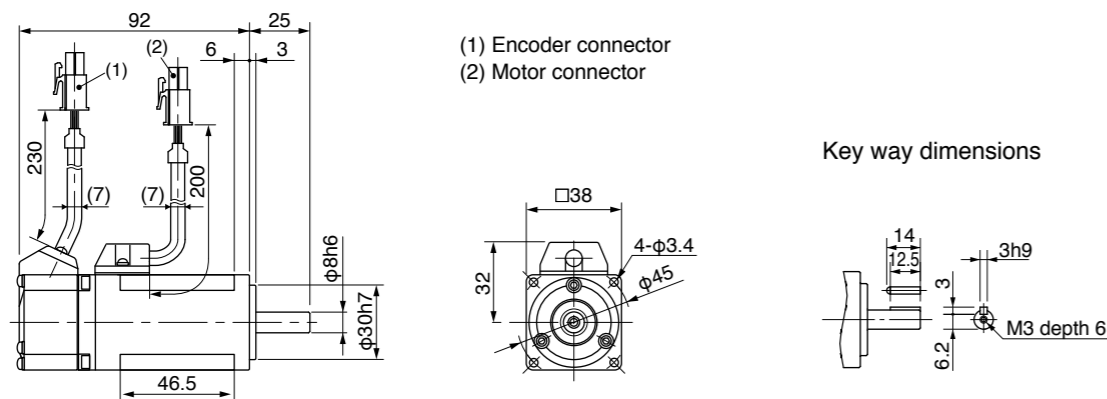
Torque characteristics (at AC100V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake>

Mass (kg)/ 0.47



* For the dimensions of with brake, refer to the right page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSMD	012G1□	012S1□
Applicable driver *2	Model No.	A5 series	MADHT1505
		A5E series	MADHT1505E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.5	
Rated output	(W)	100	
Rated torque	(N·m)	0.32	
Momentary Max. peak torque	(N·m)	0.95	
Rated current	(A(rms))	1.1	
Max. current	(A(o-p))	4.7	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4281	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.051	
	With brake	0.054	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During operation	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

• For details of Note 1 to Note 5, refer to P.104.

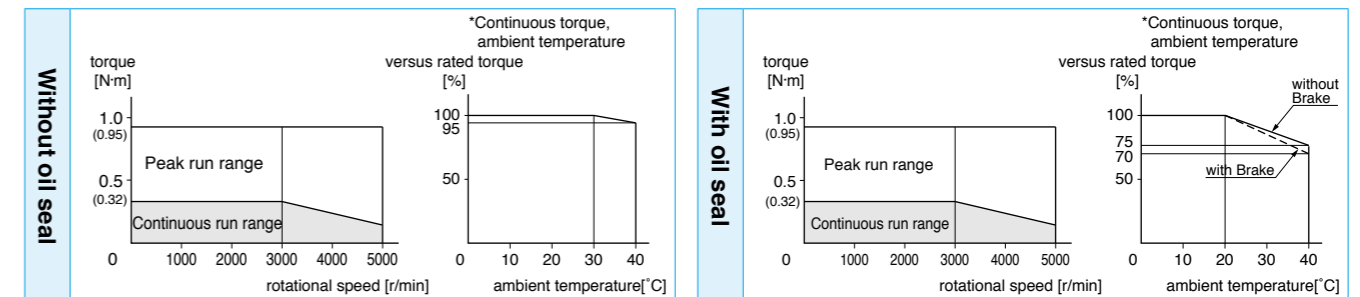
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

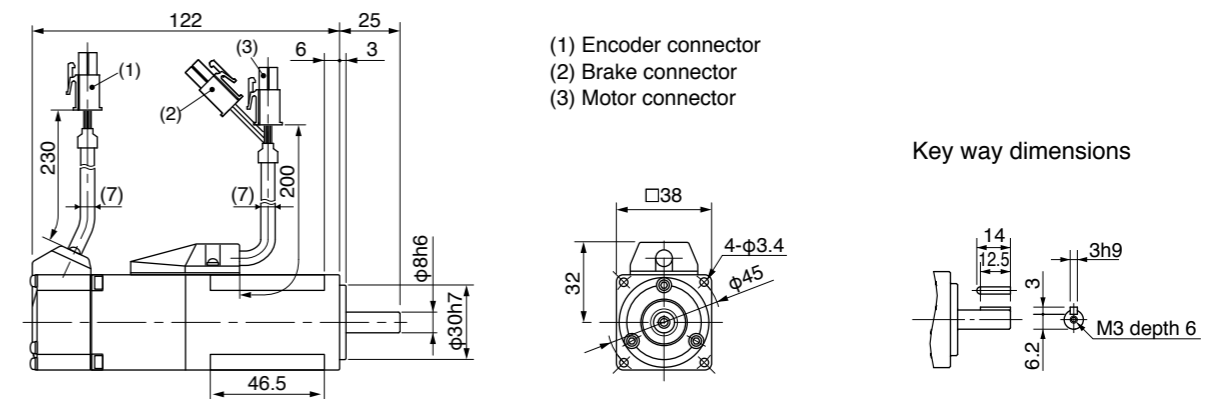
Torque characteristics (at AC200V of power voltage)



Dimensions

<With Brake>

Mass (kg)/ 0.68



* For the dimensions of without brake, refer to the left page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC100V	
Motor model *1	MSMD	021G1□	021S1□
Applicable driver *2	Model No.	A5 series	MBDHT2110
		A5E series	MBDHT2110E
	Frame symbol	B-frame	
Power supply capacity	(kVA)	0.5	
Rated output	(W)	200	
Rated torque	(N·m)	0.64	
Momentary Max. peak torque	(N·m)	1.91	
Rated current	(A(rms))	2.5	
Max. current	(A(o-p))	10.6	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.14	
	With brake	0.16	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

• For details of Note 1 to Note 5, refer to P.104.

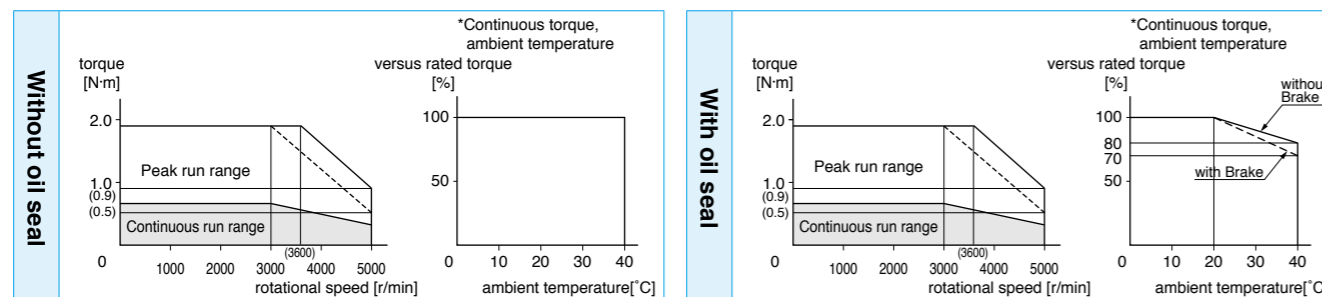
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

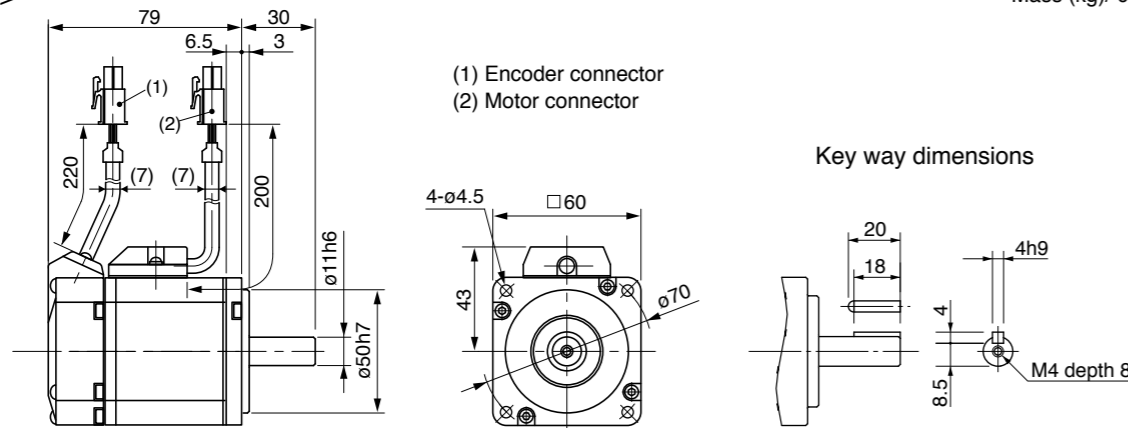
Detail of model designation, refer to P.11.

Torque characteristics (at AC100V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake> Mass (kg)/ 0.82



* For the dimensions of with brake, refer to the right page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MSMD	022G1□	022S1□
Applicable driver *2	Model No.	A5 series	MADHT1507
		A5E series	MADHT1507E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.5	
Rated output	(W)	200	
Rated torque	(N·m)	0.64	
Momentary Max. peak torque	(N·m)	1.91	
Rated current	(A(rms))	1.6	
Max. current	(A(o-p))	6.9	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.14	
	With brake	0.16	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

• For details of Note 1 to Note 5, refer to P.104.

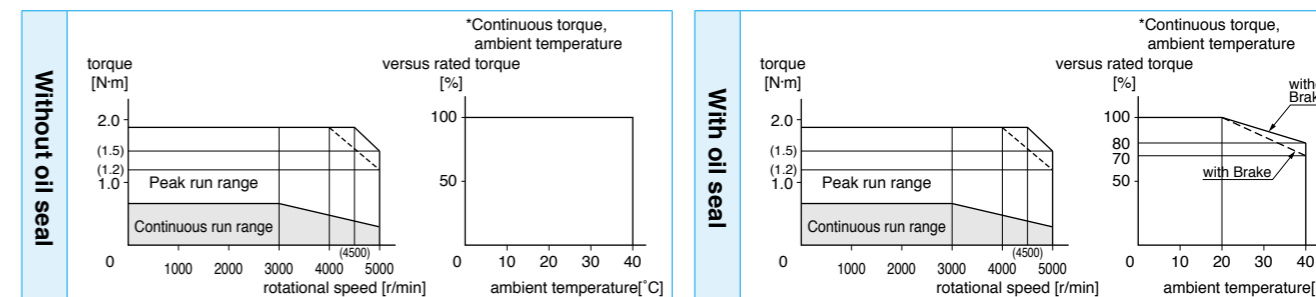
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

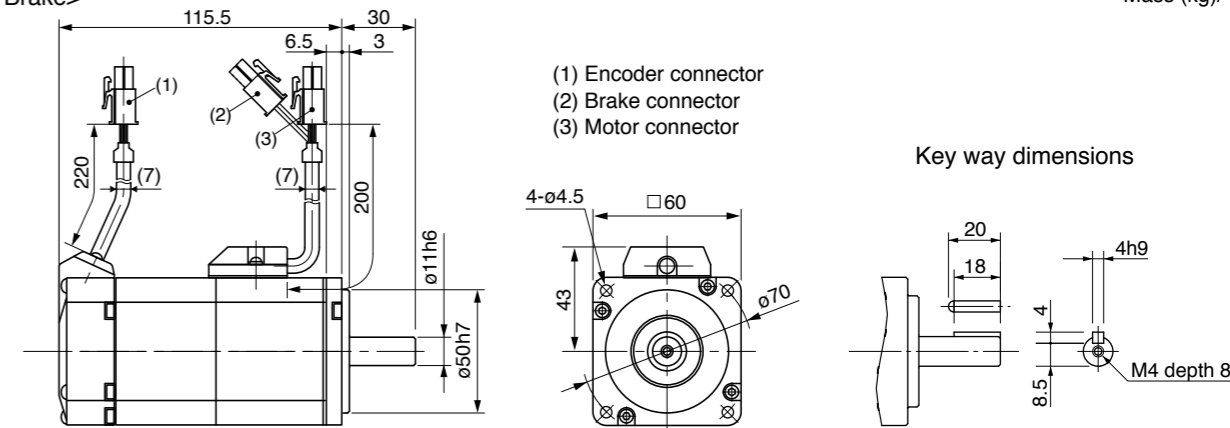
Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<With Brake> Mass (kg)/ 1.3



* For the dimensions of without brake, refer to the left page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC100V	
Motor model *1	MHMD	021G1□	021S1□
Applicable driver *2	Model No.	A5 series	MBDHT2110
		A5E series	MBDHT2110E
	Frame symbol		B-frame
Power supply capacity	(kVA)	0.5	
Rated output	(W)	200	
Rated torque	(N·m)	0.64	
Momentary Max. peak torque	(N·m)	1.91	
Rated current	(A(rms))	2.5	
Max. current	(A(o-p))	10.6	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.42	
	With brake	0.45	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

• For details of Note 1 to Note 5, refer to P.104.

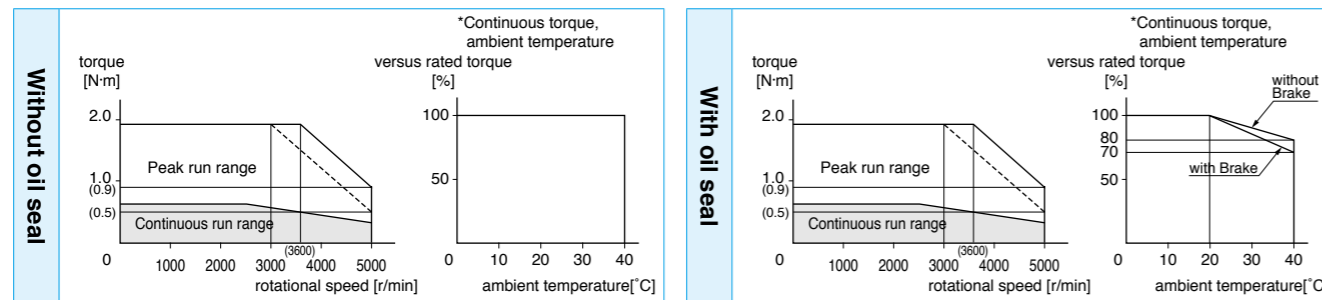
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

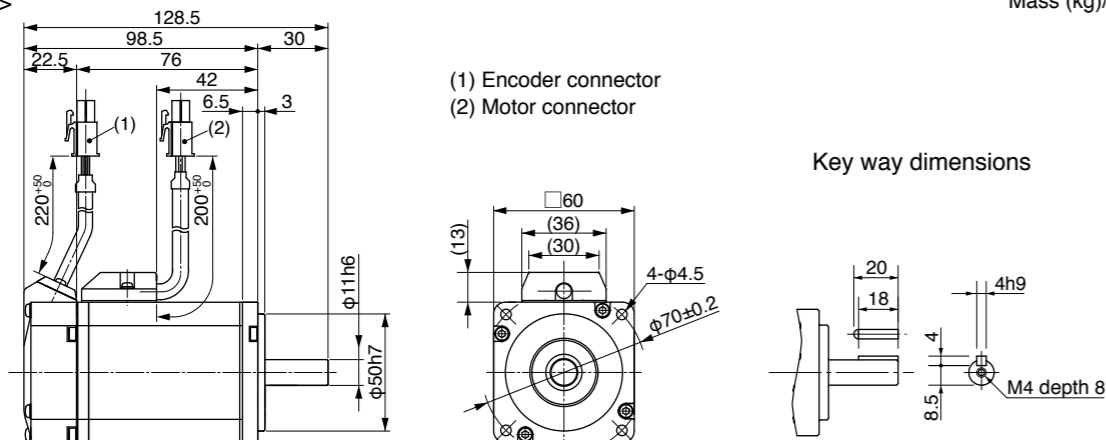
Detail of model designation, refer to P.11.

Torque characteristics (at AC100V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake> Mass (kg)/ 0.96



* For the dimensions of with brake, refer to the right page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MHMD	022G1□	022S1□
Applicable driver *2	Model No.	A5 series	MADHT1507
		A5E series	MADHT1507E
	Frame symbol		A-frame
Power supply capacity	(kVA)	0.5	
Rated output	(W)	200	
Rated torque	(N·m)	0.64	
Momentary Max. peak torque	(N·m)	1.91	
Rated current	(A(rms))	1.6	
Max. current	(A(o-p))	6.9	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.42	
	With brake	0.45	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

• For details of Note 1 to Note 5, refer to P.104.

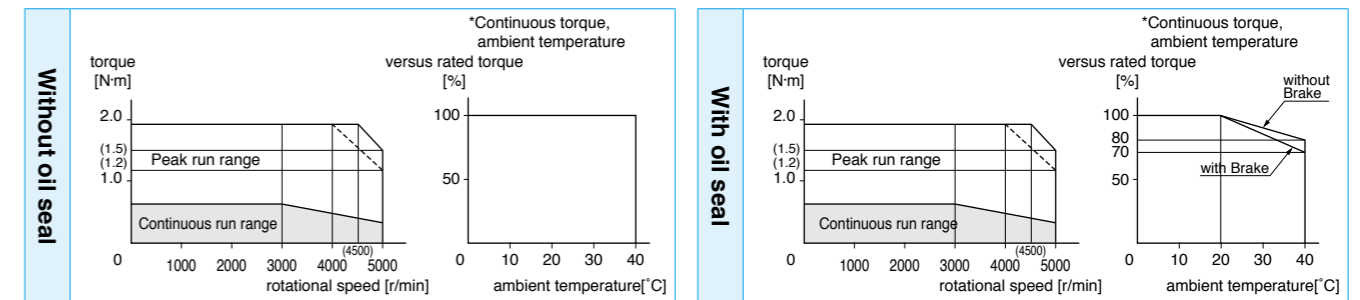
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

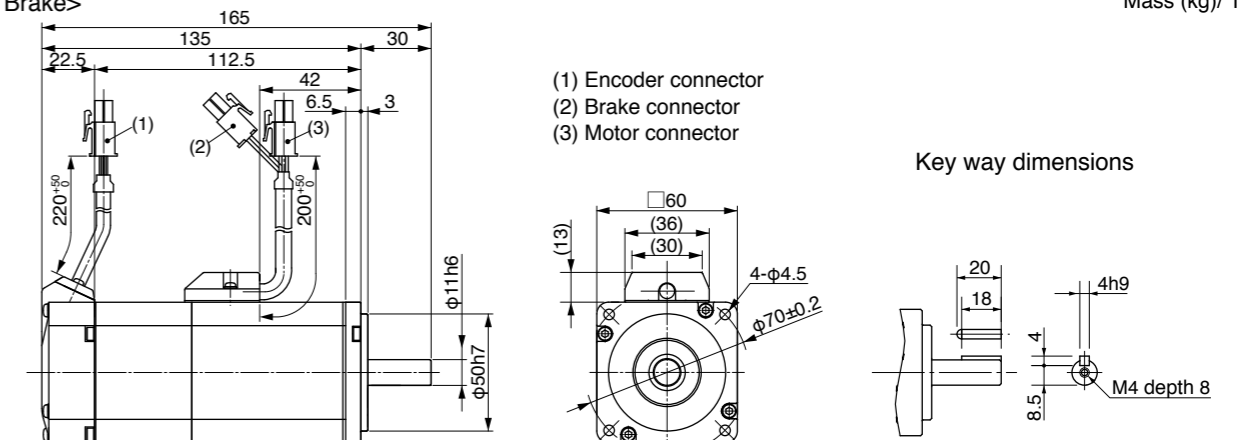
Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<With Brake> Mass (kg)/ 1.4



* For the dimensions of without brake, refer to the left page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC100V	
Motor model *1	MHMD	041G1□	041S1□
Applicable driver *2	Model No.	A5 series	MCDHT3120
		A5E series	MCDHT3120E
	Frame symbol	C-frame	
Power supply capacity	(kVA)	0.9	
Rated output	(W)	400	
Rated torque	(N·m)	1.3	
Momentary Max. peak torque	(N·m)	3.8	
Rated current	(A(rms))	4.6	
Max. current	(A(o-p))	19.5	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4282	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.67	
	With brake	0.70	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

• For details of Note 1 to Note 5, refer to P.104.

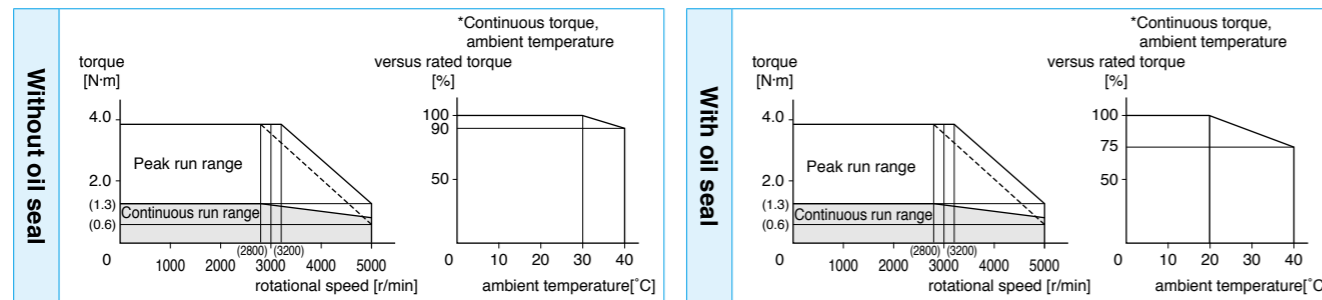
• Dimensions of Driver, refer to P.31.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

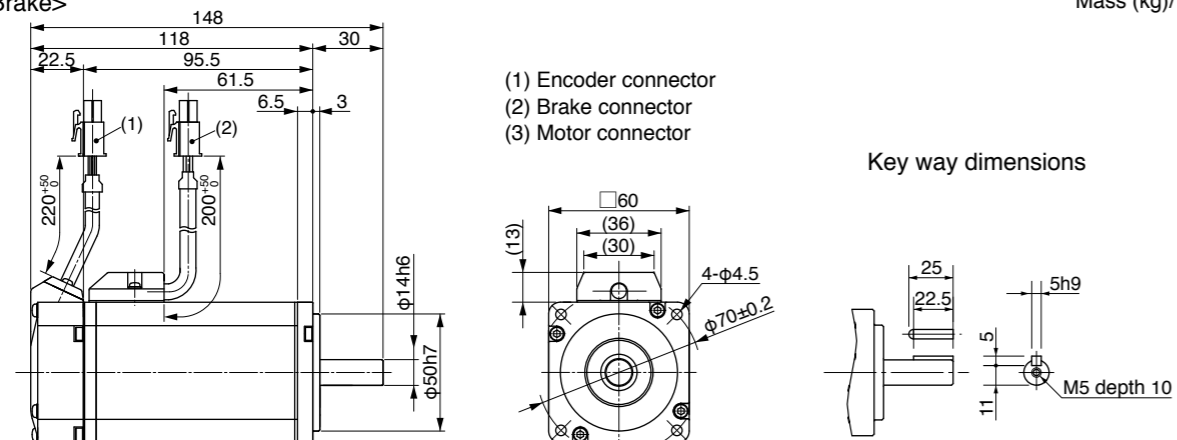
Detail of model designation, refer to P.11.

Torque characteristics (at AC100V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake> Mass (kg)/ 1.4



* For the dimensions of with brake, refer to the right page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200V	
Motor model *1	MHMD	042G1□	042S1□
Applicable driver *2	Model No.	A5 series	MBDHT2510
		A5E series	MBDHT2510E
	Frame symbol	B-frame	
Power supply capacity	(kVA)	0.9	
Rated output	(W)	400	
Rated torque	(N·m)	1.3	
Momentary Max. peak torque	(N·m)	3.8	
Rated current	(A(rms))	2.6	
Max. current	(A(o-p))	11.0	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.67	
	With brake	0.70	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

• For details of Note 1 to Note 5, refer to P.104.

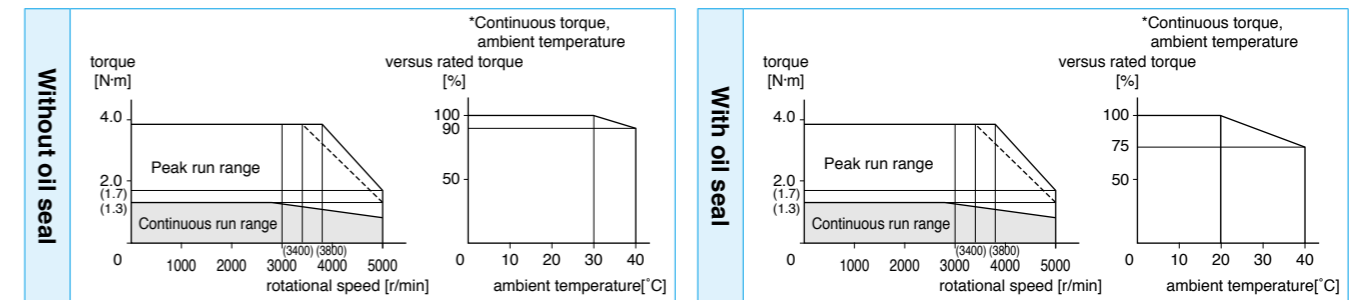
• Dimensions of Driver, refer to P.30.

*1 Rotary encoder specifications: □

*2 The product that the end of driver model designation has "E" is "positioning type".

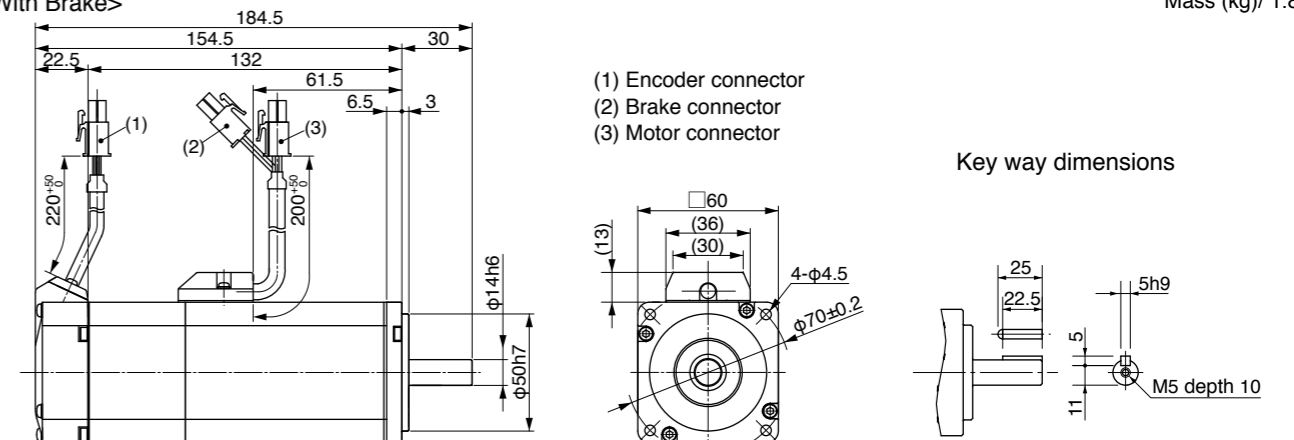
Detail of model designation, refer to P.11.

Torque characteristics (at AC200V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<With Brake> Mass (kg)/ 1.8



* For the dimensions of without brake, refer to the left page.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MSME	104G1□	104S1□
Applicable driver *2	Model No.	A5 series	MDDHT3420
		A5E series	MDDHT3420E
	Frame symbol		D-frame
Power supply capacity	(kVA)	1.8	
Rated output	(W)	1.0	
Rated torque	(N-m)	3.18	
Momentary Max. peak torque	(N-m)	9.55	
Rated current	(A(rms))	3.3	
Max. current	(A(o-p))	14	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	2.03	
	With brake	2.35	
Recommended moment of inertia ratio of the load and the rotor Note3		15 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.81±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

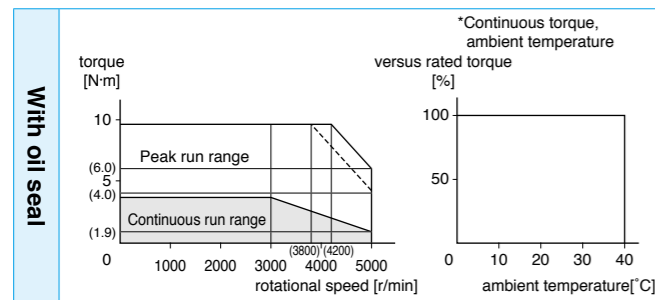
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

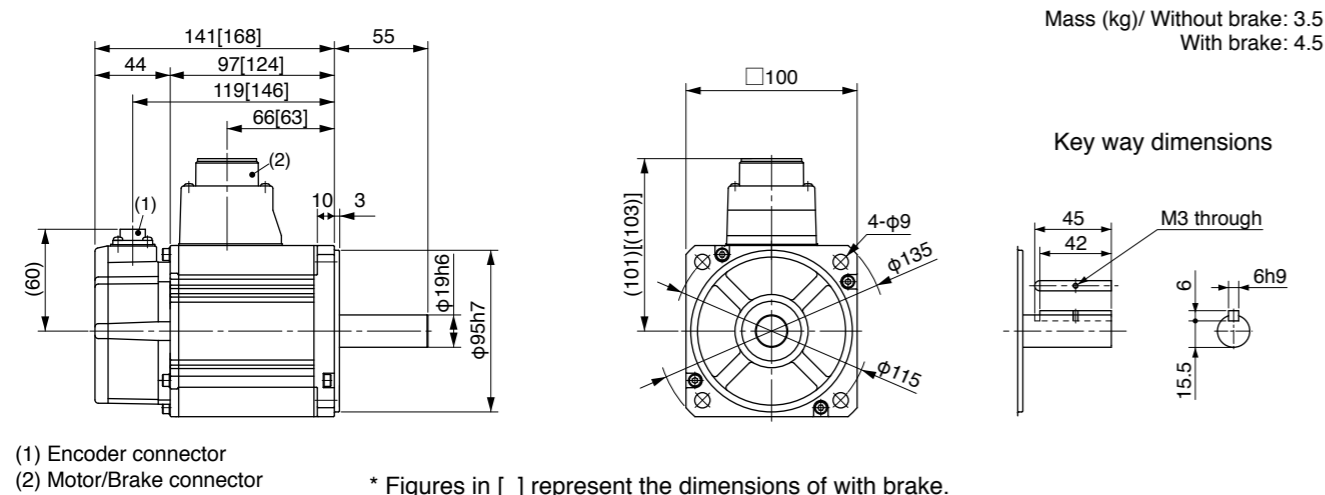
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MSME	154G1□	154S1□
Applicable driver *2	Model No.	A5 series	MDDHT3420
		A5E series	MDDHT3420E
	Frame symbol		D-frame
Power supply capacity	(kVA)	2.3	
Rated output	(W)	1.5	
Rated torque	(N-m)	4.77	
Momentary Max. peak torque	(N-m)	14.3	
Rated current	(A(rms))	4.2	
Max. current	(A(o-p))	18	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	2.84	
	With brake	3.17	
Recommended moment of inertia ratio of the load and the rotor Note3		15 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.81±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

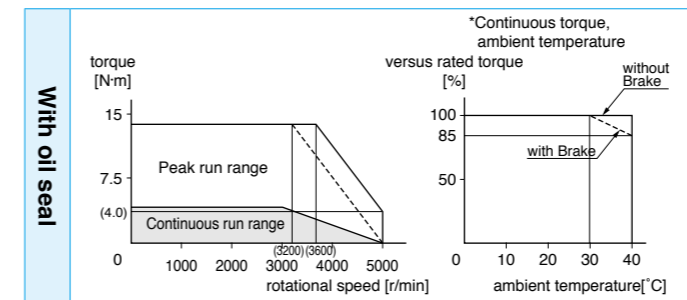
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

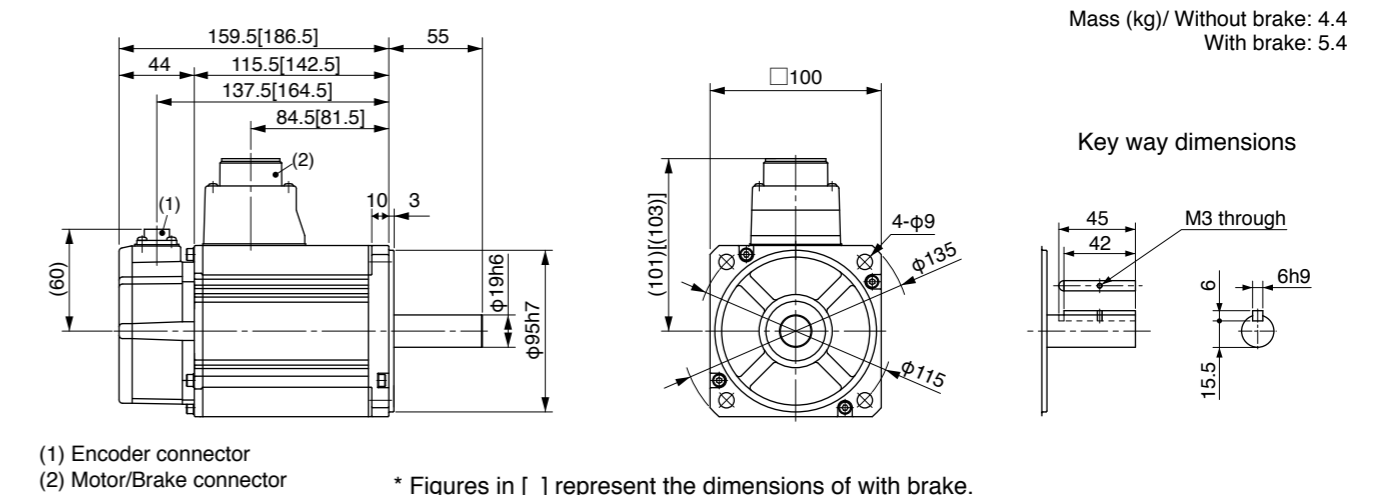
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MSME	204G1	204S1
Applicable driver *2	Model No.	A5 series	MEDHT4430
		A5E series	MEDHT4430E
	Frame symbol		E-frame
Power supply capacity (kVA)		3.3	
Rated output (W)		2.0	
Rated torque (N-m)		6.37	
Momentary Max. peak torque (N-m)		19.1	
Rated current (A(rms))		5.7	
Max. current (A(o-p))		24	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		5000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	3.68	
	With brake	4.01	
Recommended moment of inertia ratio of the load and the rotor Note3		15 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.81±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

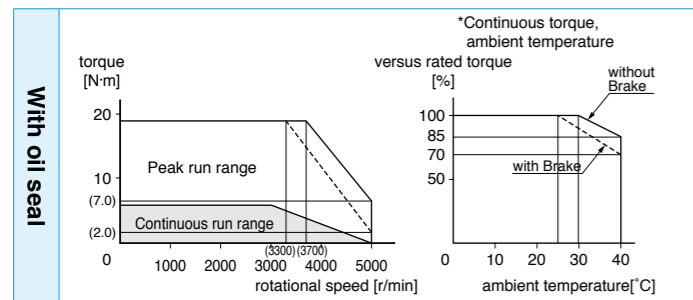
• Dimensions of Driver, refer to P.33.

*1 Rotary encoder specifications: □

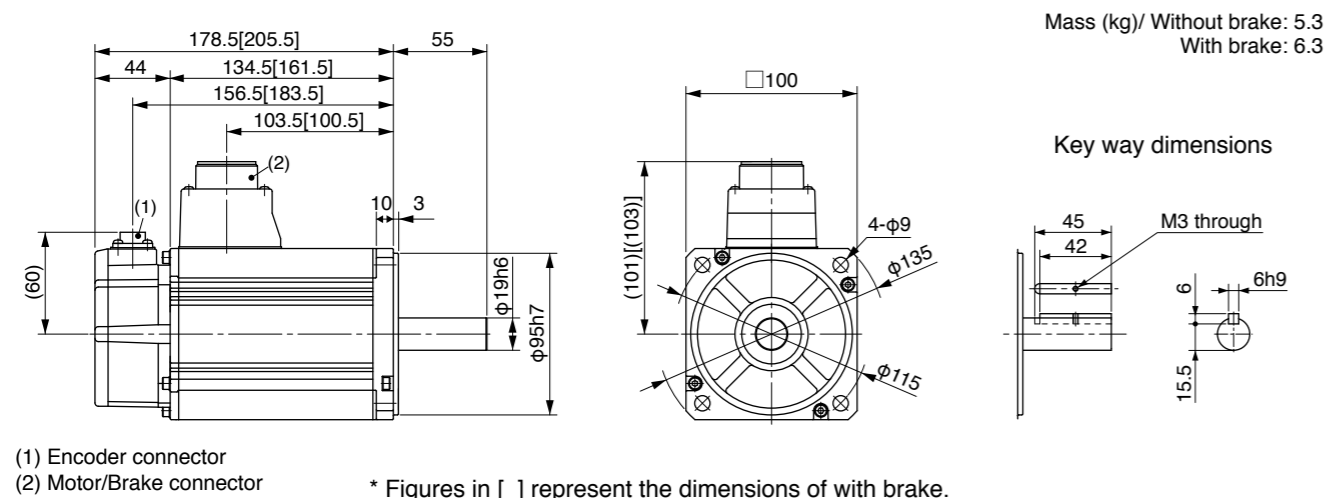
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
 Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
 Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MSME	304G1	304S1
Applicable driver *2	Model No.	A5 series	MFDHT5440
		A5E series	MFDHT5440E
	Frame symbol		F-frame
Power supply capacity (kVA)		4.5	
Rated output (kW)		3.0	
Rated torque (N-m)		9.55	
Momentary Max. peak torque (N-m)		28.6	
Rated current (A(rms))		9.2	
Max. current (A(o-p))		39	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049x2	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		5000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	6.50	
	With brake	7.85	
Recommended moment of inertia ratio of the load and the rotor Note3		15 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	11.8 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.81±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

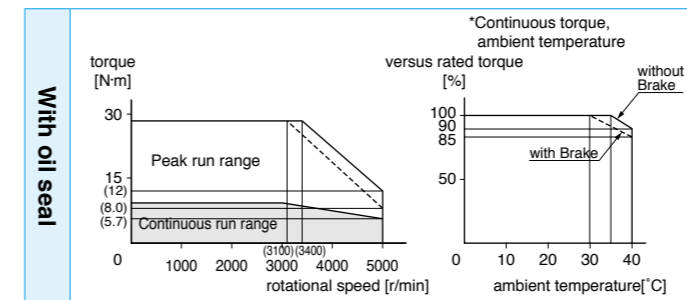
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

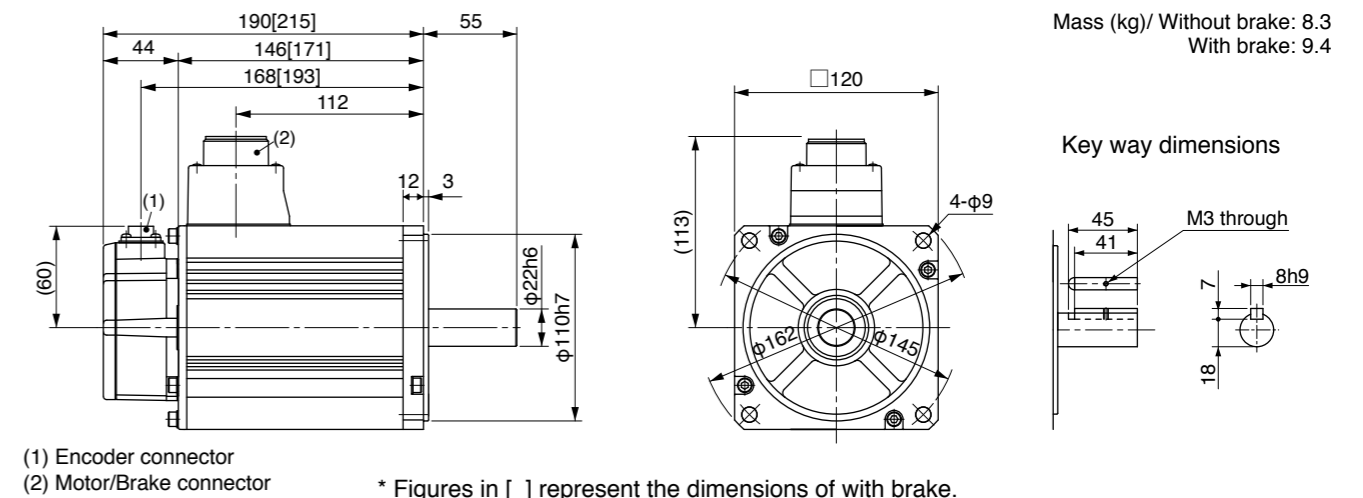
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
 Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
 Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MSME	404G1□	404S1□
Applicable driver *2	Model No.	A5 series	MFDHTA464
		A5E series	MFDHTA464E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	6.8	
Rated output	(kW)	4.0	
Rated torque	(N-m)	12.7	
Momentary Max. peak torque	(N-m)	38.2	
Rated current	(A(rms))	9.9	
Max. current	(A(o-p))	42	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049x2	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	4500	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	12.9	
	With brake	14.2	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	16.1 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.90±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

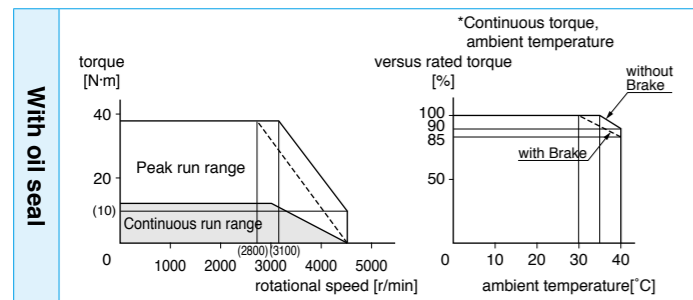
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

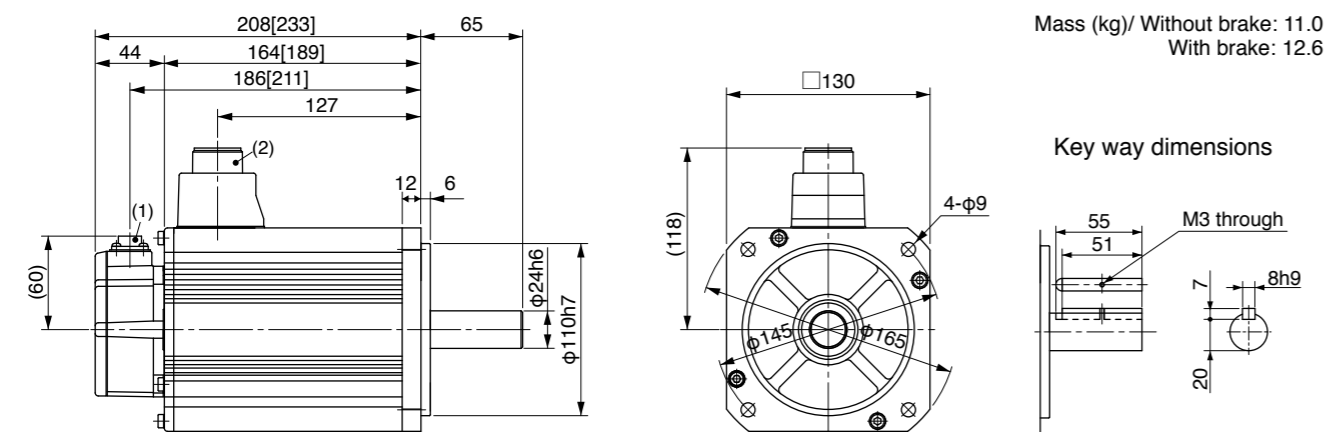
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
 Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
 Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MSME	504G1□	504S1□
Applicable driver *2	Model No.	A5 series	MFDHTA464
		A5E series	MFDHTA464E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	7.5	
Rated output	(kW)	5.0	
Rated torque	(N-m)	15.9	
Momentary Max. peak torque	(N-m)	47.7	
Rated current	(A(rms))	12.0	
Max. current	(A(o-p))	51	
Regenerative brake frequency (times/min) Note1	Without option	357	
	DV0PM20049x2	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	4500	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	17.4	
	With brake	18.6	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	16.1 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.90±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

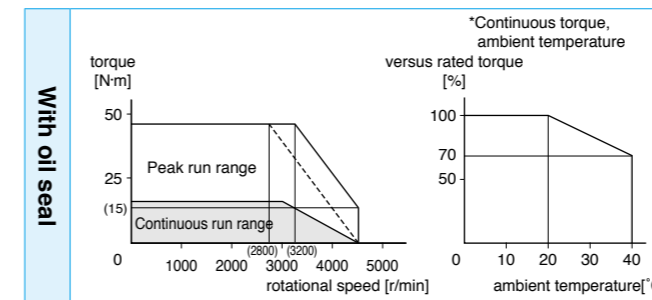
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

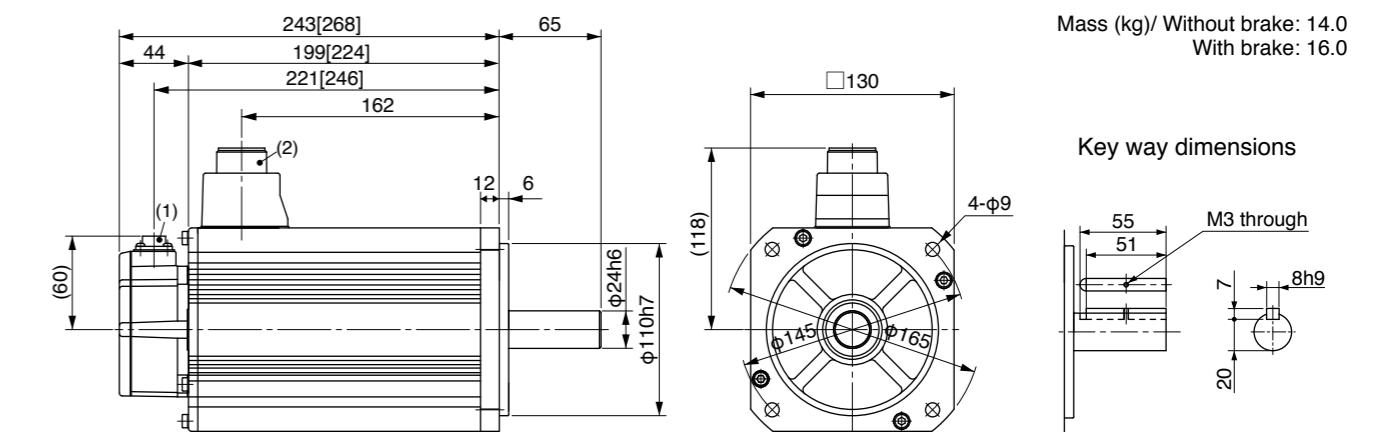
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
 Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
 Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MDME	104G1□	104S1□
Applicable driver *2	Model No.	A5 series	MDDHT2412
		A5E series	MDDHT2412E
	Frame symbol		D-frame
Power supply capacity	(kVA)	1.8	
Rated output	(W)	1.0	
Rated torque	(N-m)	4.77	
Momentary Max. peak torque	(N-m)	14.3	
Rated current	(A(rms))	2.8	
Max. current	(A(o-p))	12	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	4.60	
	With brake	5.90	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	70 or less
Exciting current (DC) (A)	0.59±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

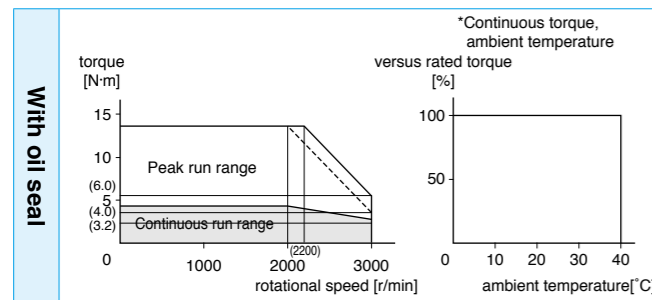
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

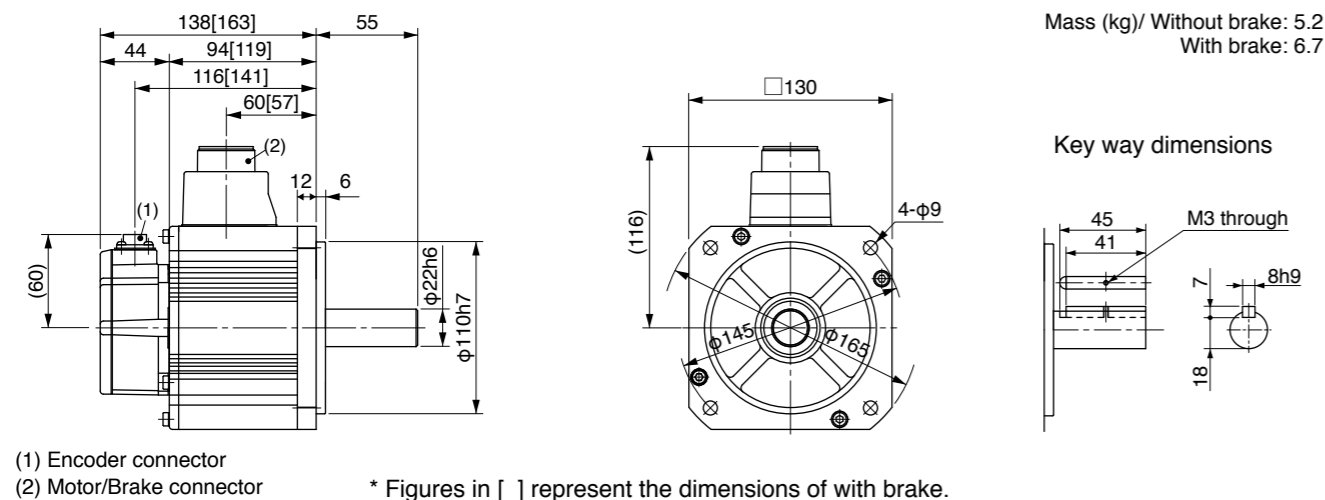
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



(1) Encoder connector
(2) Motor/Brake connector
* Figures in [] represent the dimensions of with brake.
<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MDME	154G1□	154S1□
Applicable driver *2	Model No.	A5 series	MDDHT3420
		A5E series	MDDHT3420E
	Frame symbol		D-frame
Power supply capacity	(kVA)	2.3	
Rated output	(W)	1.5	
Rated torque	(N-m)	7.16	
Momentary Max. peak torque	(N-m)	21.5	
Rated current	(A(rms))	4.7	
Max. current	(A(o-p))	20	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	6.70	
	With brake	7.99	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

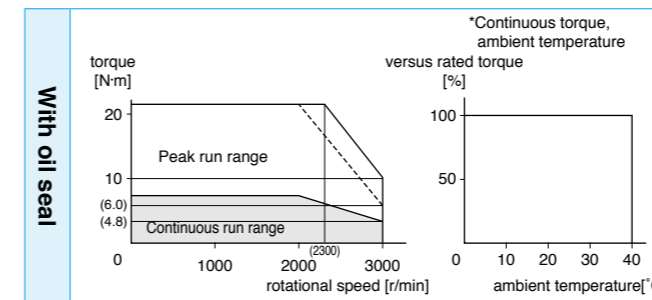
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

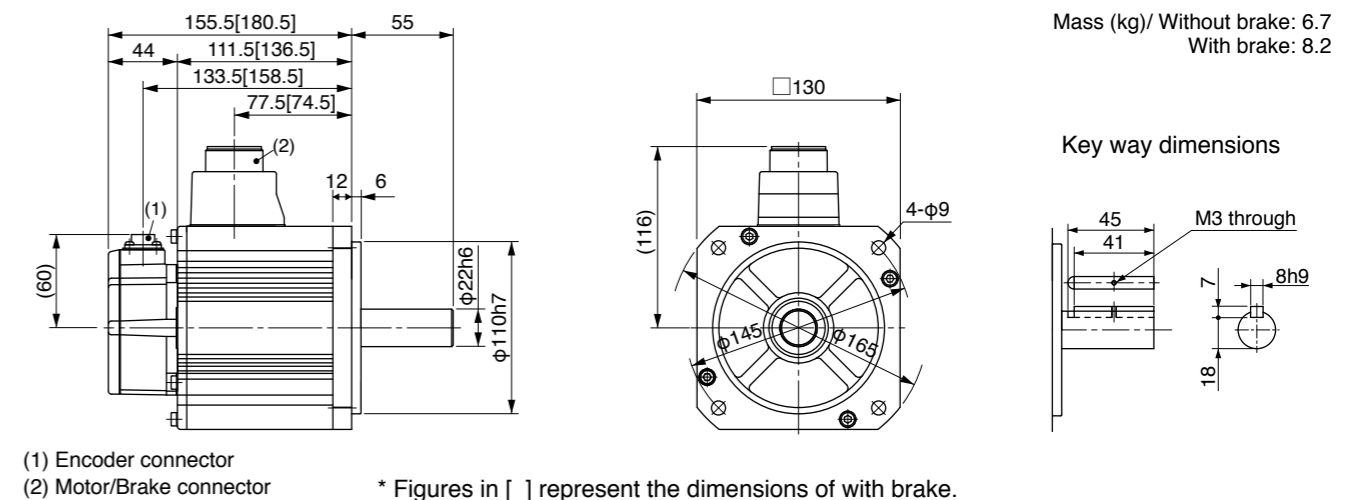
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



(1) Encoder connector
(2) Motor/Brake connector
* Figures in [] represent the dimensions of with brake.
<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MDME	204G1□	204S1□
Applicable driver *2	Model No.	A5 series	MEDHT4430
		A5E series	MEDHT4430E
	Frame symbol	E-frame	
Power supply capacity	(kVA)	3.3	
Rated output	(W)	2.0	
Rated torque	(N-m)	9.55	
Momentary Max. peak torque	(N-m)	28.6	
Rated current	(A(rms))	5.9	
Max. current	(A(o-p))	25	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	8.72	
	With brake	10.0	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• Brake specifications (For details, refer to P.105)

(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

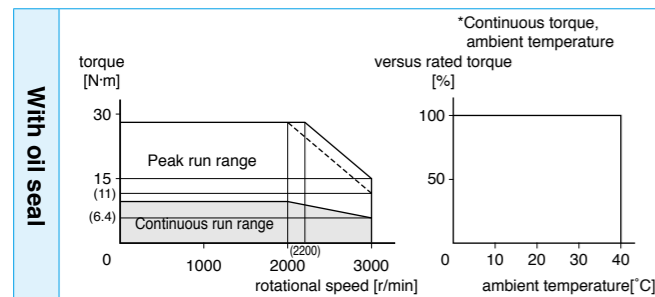
• Dimensions of Driver, refer to P.33.

*1 Rotary encoder specifications: □

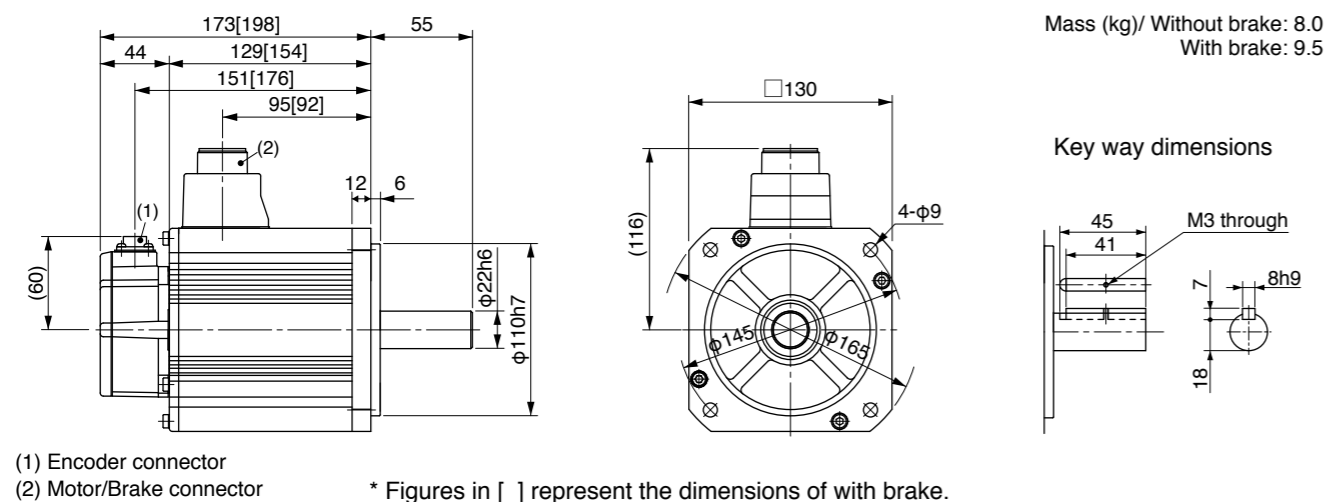
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MDME	304G1□	304S1□
Applicable driver *2	Model No.	A5 series	MFDHT5440
		A5E series	MFDHT5440E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	4.5	
Rated output	(W)	3.0	
Rated torque	(N-m)	14.3	
Momentary Max. peak torque	(N-m)	43.0	
Rated current	(A(rms))	8.7	
Max. current	(A(o-p))	37	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049x2	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	12.9	
	With brake	14.2	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• Brake specifications (For details, refer to P.105)

(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	16.2 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.90±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

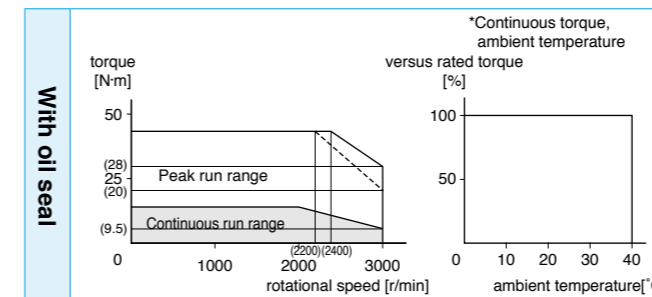
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

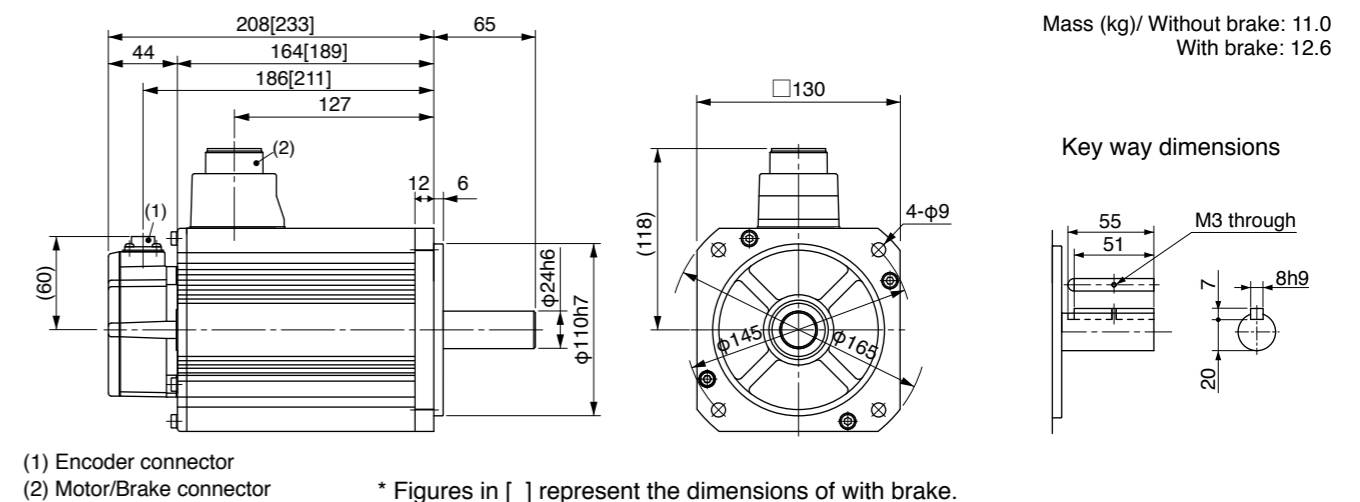
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MDME	404G1	404S1
Applicable driver *2	Model No.	A5 series	MFDHTA464
		A5E series	MFDHTA464E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	6.8	
Rated output	(W)	4.0	
Rated torque	(N-m)	19.1	
Momentary Max. peak torque	(N-m)	57.3	
Rated current	(A(rms))	10.6	
Max. current	(A(o-p))	45	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049x2	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	37.6	
	With brake	38.6	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

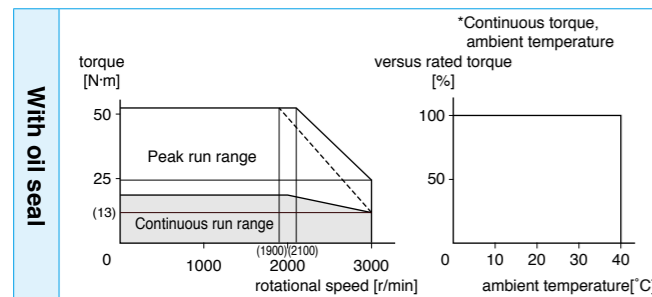
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

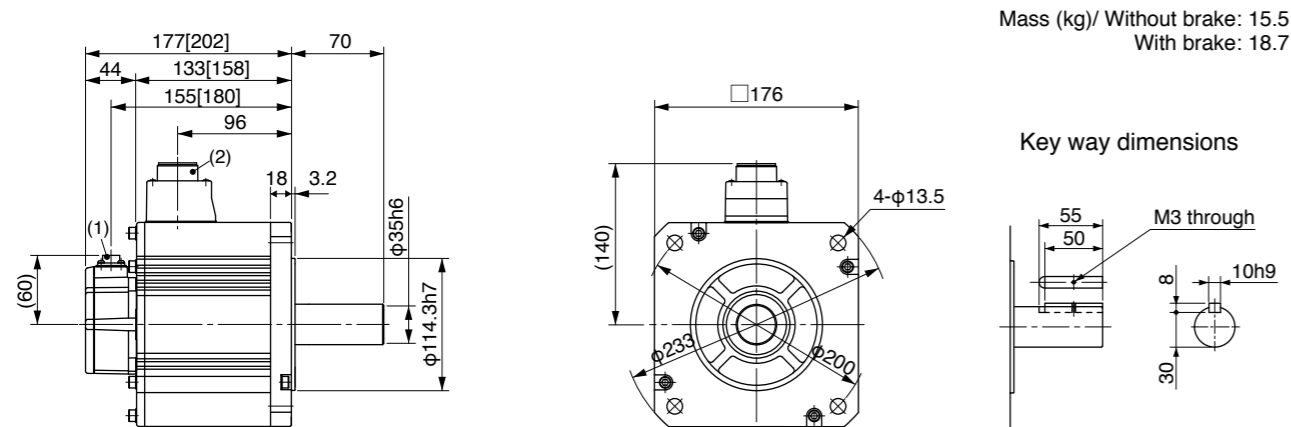
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 15.5
 With brake: 18.7

(1) Encoder connector
 (2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MDME	504G1	504S1
Applicable driver *2	Model No.	A5 series	MFDHTA464
		A5E series	MFDHTA464E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	7.5	
Rated output	(W)	5.0	
Rated torque	(N-m)	23.9	
Momentary Max. peak torque	(N-m)	71.6	
Rated current	(A(rms))	13.0	
Max. current	(A(o-p))	55	
Regenerative brake frequency (times/min) Note1	Without option	120	
	DV0PM20049x2	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	48.0	
	With brake	48.8	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

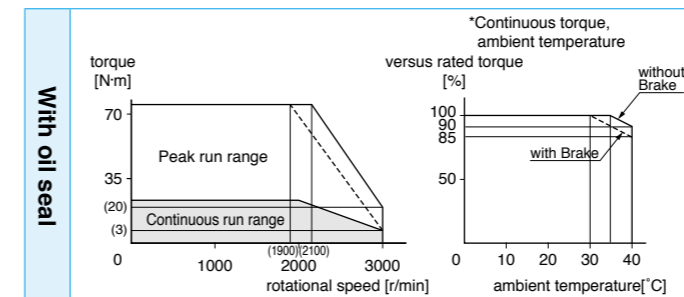
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

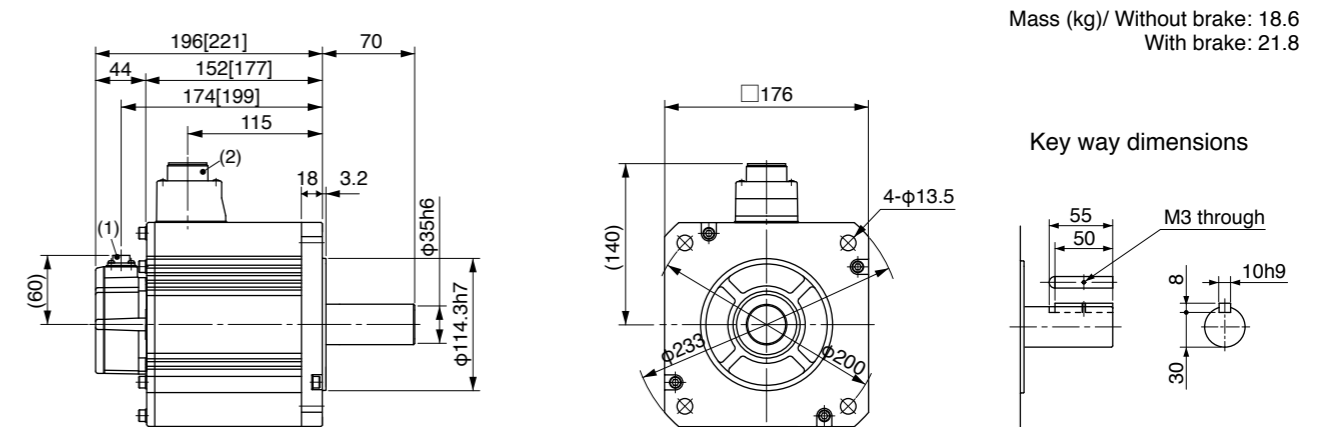
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 18.6
 With brake: 21.8

(1) Encoder connector
 (2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MGME	094G1□	094S1□
Applicable driver *2	Model No.	A5 series	MDDHT3420
		A5E series	MDDHT3420E
	Frame symbol	D-frame	
Power supply capacity	(kVA)	1.8	
Rated output	(W)	0.9	
Rated torque	(N-m)	8.59	
Momentary Max. peak torque	(N-m)	19.3	
Rated current	(A(rms))	3.8	
Max. current	(A(o-p))	12	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed	(r/min)	1000	
Max. rotational speed	(r/min)	2000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	6.70	
	With brake	7.99	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	686
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

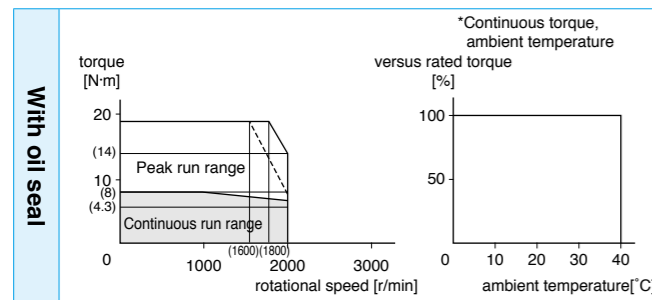
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

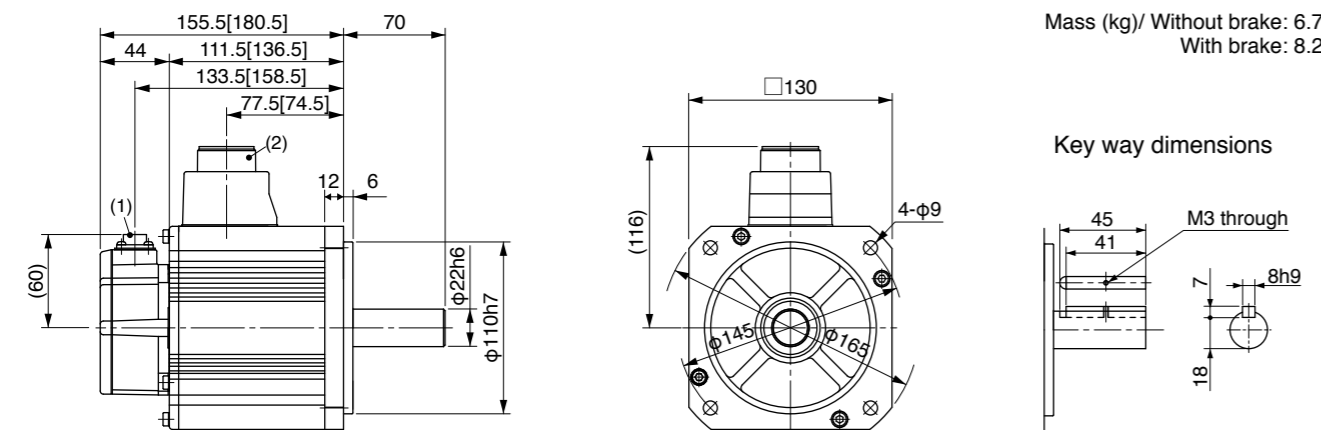
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 6.7
With brake: 8.2

Key way dimensions

(1) Encoder connector
(2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MGME	204G1□	204S1□
Applicable driver *2	Model No.	A5 series	MFDHT5440
		A5E series	MFDHT5440E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	3.8	
Rated output	(W)	2.0	
Rated torque	(N-m)	19.1	
Momentary Max. peak torque	(N-m)	47.7	
Rated current	(A(rms))	8.5	
Max. current	(A(o-p))	30	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049x2	No limit Note2	
Rated rotational speed	(r/min)	1000	
Max. rotational speed	(r/min)	2000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	30.3	
	With brake	31.4	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	1176
	Thrust load A, B-direction (N)	490

• For details of Note 1 to Note 5, refer to P.104.

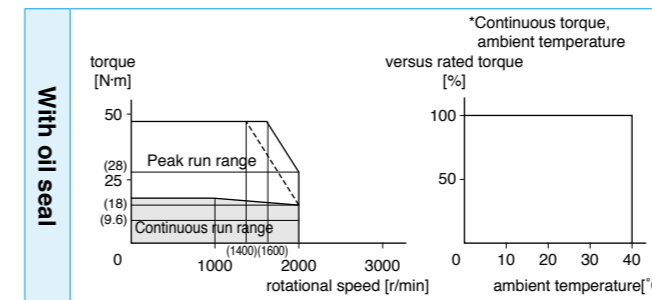
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

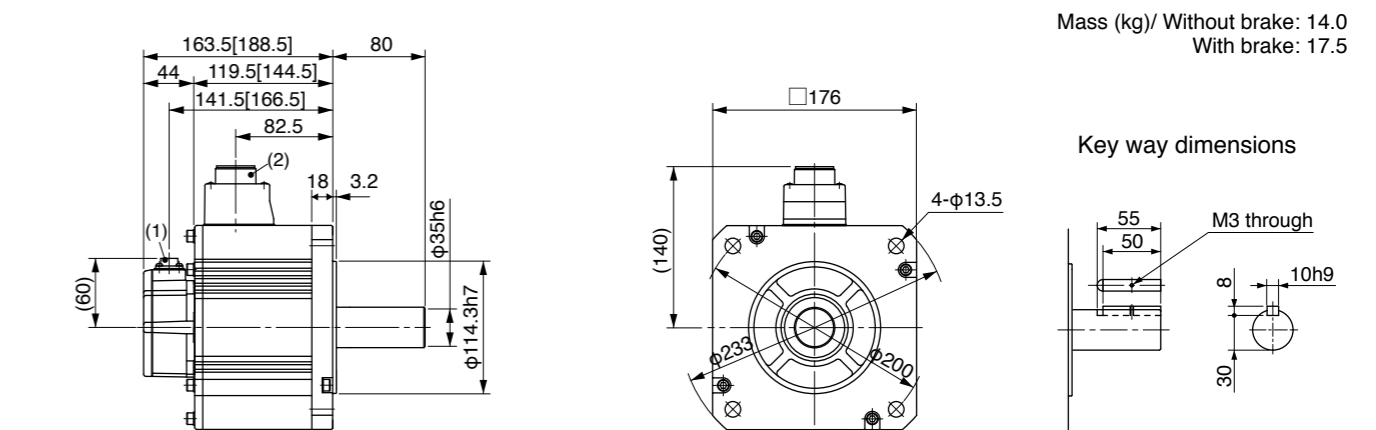
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 14.0
With brake: 17.5

Key way dimensions

(1) Encoder connector
(2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MHME	104G1□	104S1□
Applicable driver *2	Model No.	A5 series	MDDHT2412
		A5E series	MDDHT2412E
	Frame symbol	D-frame	
Power supply capacity	(kVA)	1.8	
Rated output	(W)	1.0	
Rated torque	(N·m)	4.77	
Momentary Max. peak torque	(N·m)	14.3	
Rated current	(A(rms))	2.9	
Max. current	(A(o-p))	12	
Regenerative brake frequency (times/min) Note1	Without option	83	
	DV0PM20048	No limit Note2	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	24.7	
	With brake	26.0	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• Brake specifications (For details, refer to P.105)

(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	70 or less
Exciting current (DC) (A)	0.59±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

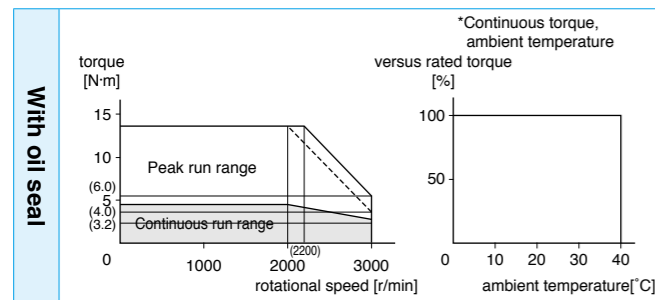
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

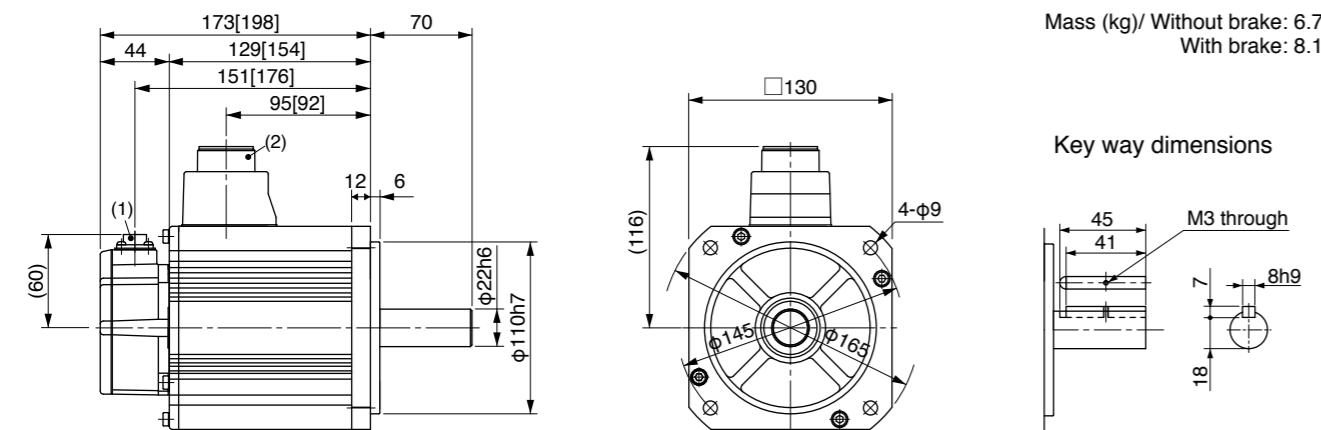
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MHME	154G1□	154S1□
Applicable driver *2	Model No.	A5 series	MDDHT3420
		A5E series	MDDHT3420E
	Frame symbol	D-frame	
Power supply capacity	(kVA)	2.3	
Rated output	(W)	1.5	
Rated torque	(N·m)	7.16	
Momentary Max. peak torque	(N·m)	21.5	
Rated current	(A(rms))	4.7	
Max. current	(A(o-p))	20	
Regenerative brake frequency (times/min) Note1	Without option	22	
	DV0PM20048	130	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	37.1	
	With brake	38.4	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• Brake specifications (For details, refer to P.105)

(This brake will be released when it is energized.)
(Do not use this for braking the motor in motion.)

Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.104)

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.104.

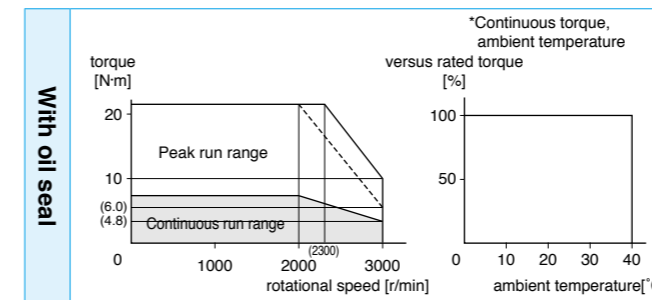
• Dimensions of Driver, refer to P.32.

*1 Rotary encoder specifications: □

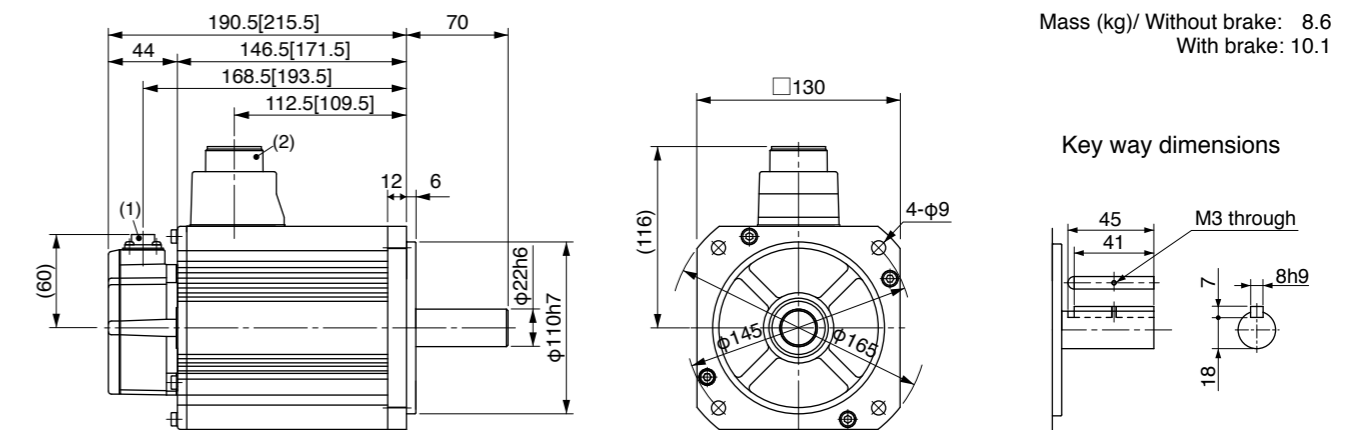
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MHME	204G1□	204S1□
Applicable driver *2	Model No.	MEDHT4430	
		MEDHT4430E	
	Frame symbol	E-frame	
Power supply capacity	(kVA)	3.3	
Rated output	(W)	2.0	
Rated torque	(N-m)	9.55	
Momentary Max. peak torque	(N-m)	28.6	
Rated current	(A(rms))	5.5	
Max. current	(A(o-p))	24	
Regenerative brake frequency (times/min) Note1	Without option	45	
	DV0PM20048	142	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	57.8	
	With brake	59.6	
Recommended moment of inertia ratio of the load and the rotor Note3		5 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

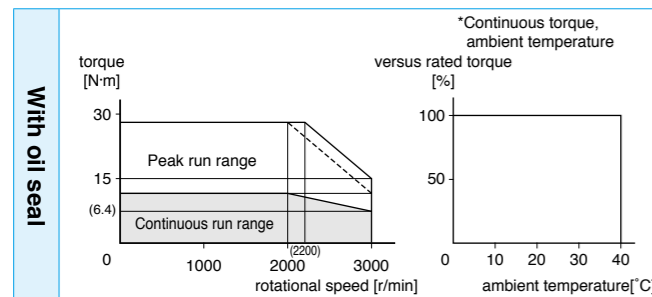
• Dimensions of Driver, refer to P.33.

*1 Rotary encoder specifications: □

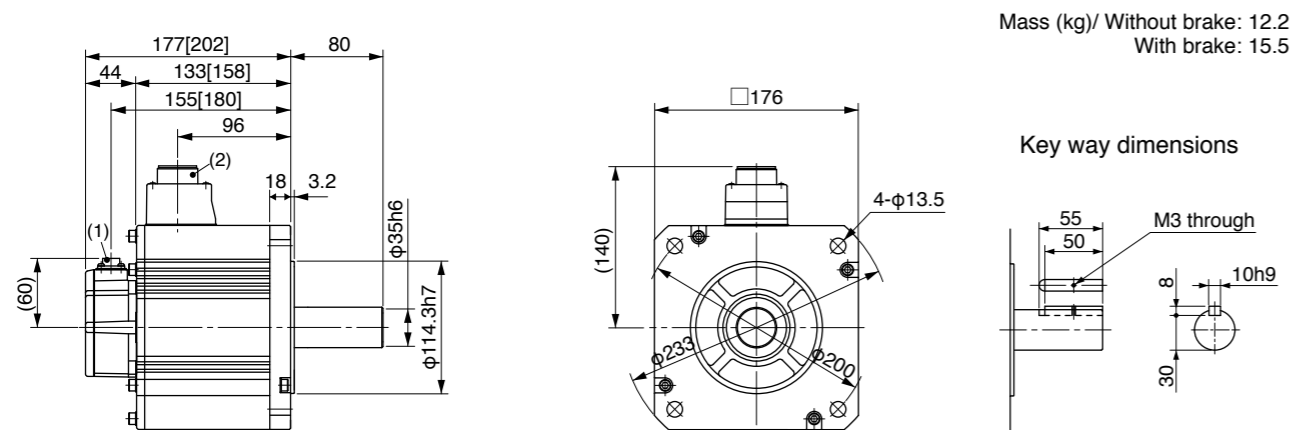
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 12.2
 With brake: 15.5

(1) Encoder connector
 (2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MHME	304G1□	304S1□
Applicable driver *2	Model No.	MFDHT5440	
		MFDHT5440E	
	Frame symbol	F-frame	
Power supply capacity	(kVA)	4.5	
Rated output	(W)	3.0	
Rated torque	(N-m)	14.3	
Momentary Max. peak torque	(N-m)	43.0	
Rated current	(A(rms))	8.0	
Max. current	(A(o-p))	34	
Regenerative brake frequency (times/min) Note1	Without option	19	
	DV0PM20049x2	142	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (x10 ⁻⁴ kg-m ²)	Without brake	90.5	
	With brake	92.1	
Recommended moment of inertia ratio of the load and the rotor Note3		5 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1,048,576	131,072

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N-m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

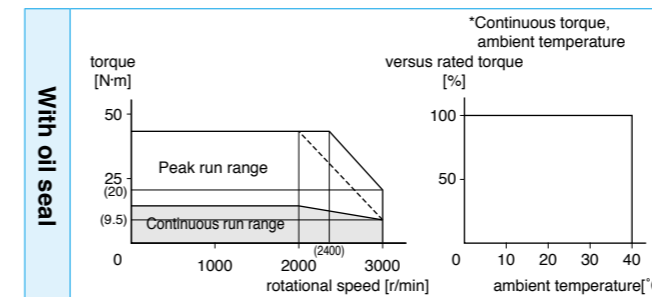
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

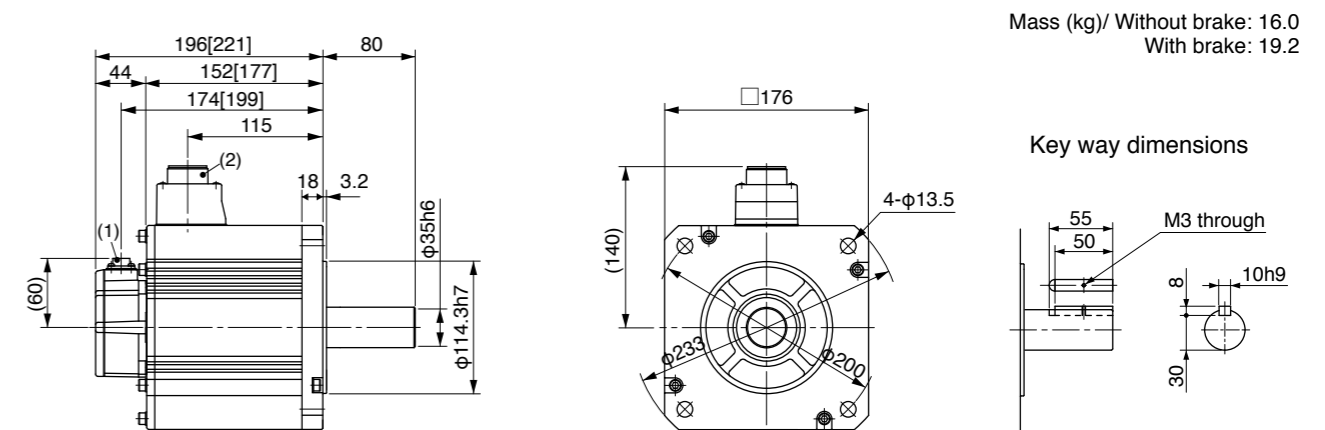
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Mass (kg)/ Without brake: 16.0
 With brake: 19.2

(1) Encoder connector
 (2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MHME	404G1□	404S1□
Applicable driver *2	Model No.	A5 series	MFDHTA464
		A5E series	MFDHTA464E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	6.8	
Rated output	(W)	4.0	
Rated torque	(N·m)	19.1	
Momentary Max. peak torque	(N·m)	57.3	
Rated current	(A(rms))	10.5	
Max. current	(A(o-p))	45	
Regenerative brake frequency (times/min) Note1	Without option	17	
	DV0PM20049×2	125	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	112	
	With brake	114	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

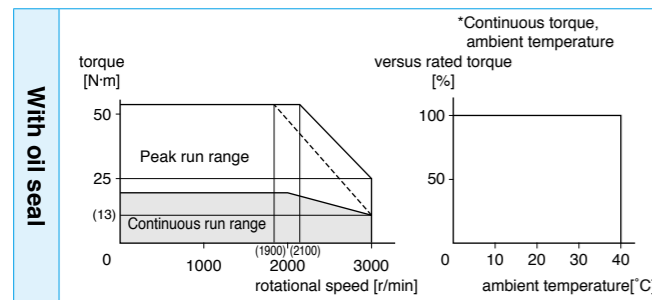
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

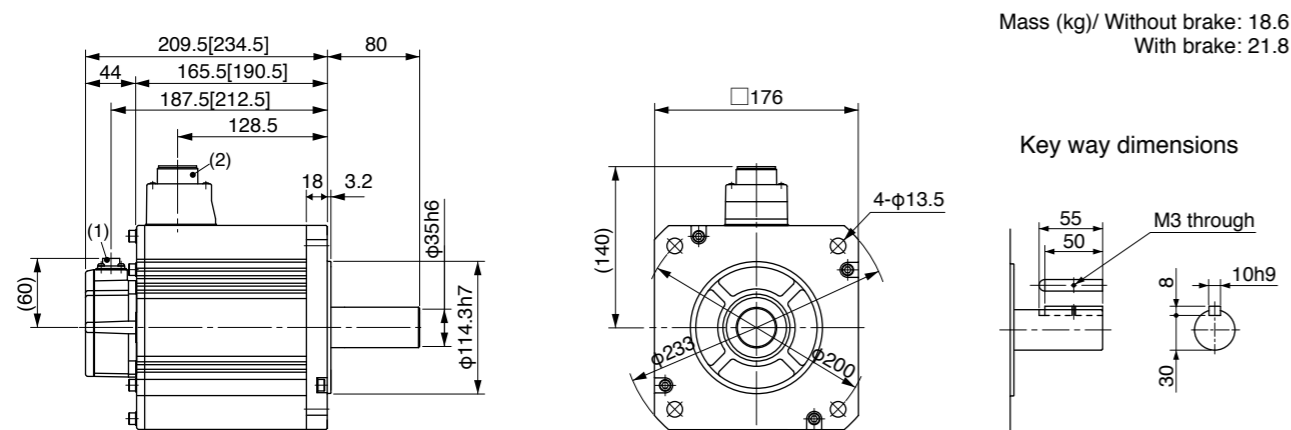
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



(1) Encoder connector
 (2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC400V	
Motor model *1	MHME	504G1□	504S1□
Applicable driver *2	Model No.	A5 series	MFDHTA464
		A5E series	MFDHTA464E
	Frame symbol	F-frame	
Power supply capacity	(kVA)	7.5	
Rated output	(W)	5.0	
Rated torque	(N·m)	23.9	
Momentary Max. peak torque	(N·m)	71.6	
Rated current	(A(rms))	13.0	
Max. current	(A(o-p))	55	
Regenerative brake frequency (times/min) Note1	Without option	10	
	DV0PM20049×2	76	
Rated rotational speed	(r/min)	2000	
Max. rotational speed	(r/min)	3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	162	
	With brake	164	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
Rotary encoder specifications Note5	20-bit Incremental	1,048,576	
	17-bit Absolute	131,072	

• **Brake specifications** (For details, refer to P.105)
 (This brake will be released when it is energized.)
 (Do not use this for braking the motor in motion.)

Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	25 or less
Exciting current (DC) (A)	1.3±10%
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **Permissible load** (For details, refer to P.104)

During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.104.

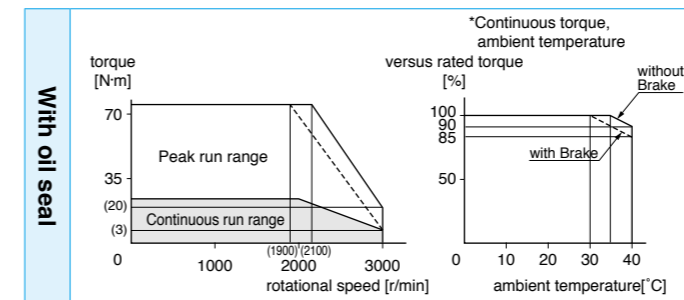
• Dimensions of Driver, refer to P.34.

*1 Rotary encoder specifications: □

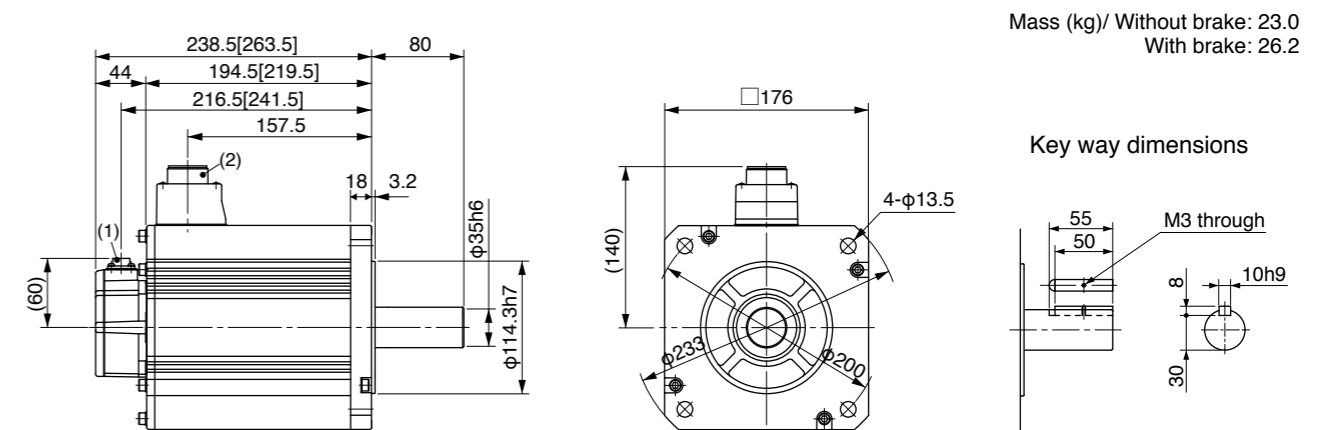
*2 The product that the end of driver model designation has "E" is "positioning type".

Detail of model designation, refer to P.11.

Torque characteristics (at AC400V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



(1) Encoder connector
 (2) Motor/Brake connector

* Figures in [] represent the dimensions of with brake.

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Notes on [Motor specification] page

Note) 1. [At AC100V of power voltage]

Regenerative brake frequency represents the frequency of the motor's stops from the rated speed with deceleration without load.

- If the load is connected, frequency will be defines as $1/(m+1)$, where m =load moment of inertia/rotor moment of inertia.
- When the motor speed exceeds the rated speed, regenerative brake frequency is in inverse proportion to the square of (running speed/rated speed).
- Power supply voltage is AC115V (at 100V of the main voltage).
If the supply voltage fluctuates, frequency is in inverse proportion to the square of (Running supply voltage/115) relative to the value in the table.
- When regeneration occurs continuously such cases as running speed frequently changes or vertical feeding, consult us or a dealer.

[At AC200V of power voltage]

Regenerative brake frequency represents the frequency of the motor's stops from the rated speed with deceleration without load.

- If the load is connected, frequency will be defines as $1/(m+1)$, where m =load moment of inertia/rotor moment of inertia.
- When the motor speed exceeds the rated speed, regenerative brake frequency is in inverse proportion to the square of (running speed/rated speed).
- Power supply voltage is AC230V (at 200V of the main voltage).
If the supply voltage fluctuates, frequency is in inverse proportion to the square of (Running supply voltage/230) relative to the value in the table.
- When regeneration occurs continuously such cases as running speed frequently changes or vertical feeding, consult us or a dealer.

[At AC400V of power voltage]

Regenerative brake frequency represents the frequency of the motor's stops from the rated speed with deceleration without load.

- If the load is connected, frequency will be defines as $1/(m+1)$, where m =load moment of inertia/rotor moment of inertia.
- When the motor speed exceeds the rated speed, regenerative brake frequency is in inverse proportion to the square of (running speed/rated speed).
- Power supply voltage is AC460V (at 400V of the main voltage).
If the supply voltage fluctuates, frequency is in inverse proportion to the square of (Running supply voltage/460) relative to the value in the table.
- When regeneration occurs continuously such cases as running speed frequently changes or vertical feeding, consult us or a dealer.

Note) 2. If the effective torque is within the rated torque, there is no limit in generative brake.

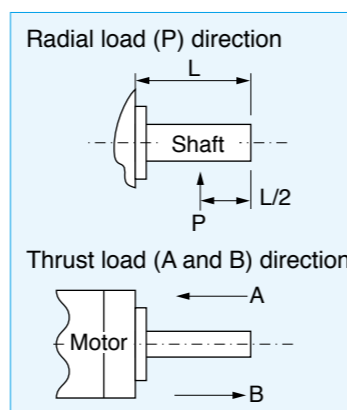
Note) 3. Consult us or a dealer if the load moment of inertia exceeds the specified value.

Note) 4. Releasing time values represent the ones with DC-cutoff using a varistor.

Note) 5. The 17-bit absolute encoder can also be used as a 17-bit incremental encoder.

Permissible Load at Output Shaft

The radial load is defined as a load applied to the output shaft in the right-angle direction. This load is generated when the gear head is coupled to the machine using a chain, belt, etc., but not when the gear head is directly connected to the coupling. As shown in the right figure, the permissible value is determined based on the load applied to the $L/2$ position of the output shaft. The thrust load is defined as a load applied to the output shaft in the axial direction.



Because the radial load and thrust load significantly affect the life of the bearing, take care not to allow the load during operation to exceed the permissible radial load and thrust load shown in the table below.

Built-in Holding Brake

In the applications where the motor drives the vertical axis, this brake would be used to hold and prevent the work (moving load) from falling by gravity while the power to the servo is shut off.

Use this built-in brake for "Holding" purpose only, that is to hold the stalling status. Never use this for "Brake" purpose to stop the load in motion.

• Output Timing of BRK-OFF Signal

- For the brake release timing at power-on, or braking timing at Servo-OFF/Servo-Alarm while the motor is in motion, refer to the Operating Instructions (Overall).
- With the parameter, Pr4.38 (Setup of mechanical brake action while the motor is in motion), you can set up a time between when the motor enters to a free-run from energized status and when BRK-OFF signal turns off (brake will be engaged), when the Servo-OFF or alarm occurs while the motor is in motion. For details, download a copy of the instruction manual from our website.

<Note>

1. The lining sound of the brake (chattering and etc.) might be generated while running the motor with built-in brake, however this does not affect any functionality.
2. Magnetic flux might be generated through the motor shaft while the brake coil is energized (brake is open). Pay an extra attention when magnetic sensors are used nearby the motor.

• Specifications of Built-in Holding Brake

Motor series	Motor output	Static friction torque N·m	Rotor inertia $\times 10^{-4}$ kg·m ²	Engaging time ms	Releasing time ms	Exciting current DC A (at cool-off)	Releasing voltage	Permissible work (J) per one braking	Permissible total work $\times 10^3$ J	Permissible angular acceleration rad/s ²	
MSMD	50W, 100W	0.29 or more	0.002	35 or less	20 or less	0.3	DC1V or more	39.2	4.9	30000	
	200W, 400W	1.27 or more	0.018	50 or less	15 or less	0.36		137	44.1		
	750W	2.45 or more	0.075	70 or less	20 or less	0.42		196	147		
MSME	50W, 100W	0.29 or more	0.002	35 or less	20 or less	0.3	DC1V or more	39.2	4.9	30000	
	200W, 400W	1.27 or more	0.018	50 or less	15 or less	0.36		137	44.1		
	750W	2.45 or more	0.075	70 or less	20 or less	0.42		196	147		
	1.0kW, 1.5kW, 2.0kW	7.8 or more	0.33	50 or less	15 or less (100)	0.81	DC2V or more	392	490	10000	
	3.0kW	11.8 or more		80 or less							
4.0kW, 5.0kW	16.1 or more	1.35	110 or less	50 or less (130)	0.9	1470	2200				
MDME	1.0kW	4.9 or more	1.35	80 or less	70 or less (200)	0.59	DC2V or more	588	780	10000	
	1.5kW, 2.0kW	13.7 or more		100 or less	50 or less (130)			0.79	1176		1500
	3.0kW	16.2 or more		110 or less	0.9			1470	2200		
	4.0kW, 5.0kW	24.5 or more	4.7	80 or less	25 or less (200)	1.3	1372	2900	5440		
MGME	900W	13.7 or more	1.35	100 or less	50 or less (130)	0.79	DC2V or more	1176	1500	10000	
	2.0kW	24.5 or more	4.7	80 or less	25 or less (200)			1.3	1372		2900
	3.0kW	58.8 or more		150 or less	50 or less (130)			1.4			5440
MHMD	200W, 400W	1.27 or more	0.018	50 or less	15 or less	0.36	DC1V or more	137	44.1	30000	
	750W	2.45 or more	0.075	70 or less	20 or less	0.42		196	147		
MHME	1.0kW	4.9 or more	1.35	80 or less	70 or less (200)	0.59	DC2V or more	588	780	10000	
	1.5kW	13.7 or more		100 or less	50 or less (130)			0.79	1176		1500
	2.0kW to 5.0kW	24.5 or more	4.7	80 or less	25 or less (200)	1.3		1372	2900		5440

- Excitation voltage is DC24V \pm 10% (Large type motor) and DC24V \pm 5% (Small type motor).
- Releasing time values represent the ones with DC-cutoff using a varistor.
Values in () represent those measured by using a diode (V03C by Hitachi, Ltd.)
- Above values (except static friction torque, releasing voltage and excitation current) represent typical values.
- Backlash of the built-in holding brake is kept $\pm 1^\circ$ or smaller at ex-factory point.
- Service life of the number of acceleration/deceleration with the above permissible angular acceleration is more than 10 million times. (Life end is defined as when the brake backlash drastically changes.)