

RoHS RoHS-Compliant

2-Phase Stepping Motor & Driver Package

RBK-Series

Microstep Drive

High-Torque Type 56.4 mm

Standard Type 56.4 mm, 85 mm



Product Number Code

● RBK Series

RBK2 6 4 P B
 ① ② ③ ④ ⑤

①	Series	RBK: RBK Series
②	Motor Frame Size	6: <input type="checkbox"/> 56.4 mm 9: <input type="checkbox"/> 85 mm
③	Motor Case Length	
④	Motor Type	P: High-Torque Type Blank: Standard Type
⑤	Shaft Type	A: Single Shaft B: Double Shaft

● PK-Series

PK2 6 4 P D B
 ① ② ③ ④ ⑤ ⑥

①	Series	PK: PK Series
②	Motor Frame Size	6: <input type="checkbox"/> 56.4 mm 9: <input type="checkbox"/> 85 mm
③	Motor Case Length	
④	Motor Type	P: High-Torque Type Blank: Standard Type
⑤	Motor Lead	D: 4 Leads (4 Pins)
⑥	Shaft Type	A: Single Shaft B: Double Shaft

Product lineup

Frame Size (mm)	Model		Motor Model		Driver Model	Cable Model
	Single shaft	Double shaft	Single shaft	Double shaft		
<input type="checkbox"/> 56.4 High-Torque Type	RBK264PA	RBK264PB	PK264PDA	PK264PDB	RBD228A-K	LC2B06C
	RBK266PA	RBK266PB	PK266PDA	PK266PDB		
	RBK268PA	RBK268PB	PK268PDA	PK268PDB		
<input type="checkbox"/> 56.4 Standard Type	RBK264A	RBK264B	PK264DA	PK264DB	RBD242A-V	
	RBK266A	RBK266B	PK266DA	PK266DB		
	RBK268A	RBK268B	PK268DA	PK268DB		
<input type="checkbox"/> 85 Standard Type	RBK296A	RBK296B	PK296DA	PK296DB	RBD245A-V	
	RBK299A	RBK299B	PK299DA	PK299DB		
	RBK2913A	RBK2913B	PK2913DA	PK2913DB		

■ Specifications

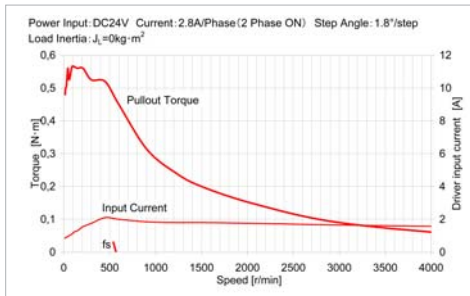
● High-Torque Type: Motor Frame Size 56.4 mm

Model	Single Shaft		RBK264PA	RBK266PA	RBK268PA
	Double Shaft		RBK264PB	RBK266PB	RBK268PB
Maximum Holding Torque	N·m		0.6	1.4	2.3
Rotor Inertia	J:kg·m ²		120 x 10 ⁻⁷	290 x 10 ⁻⁷	490 x 10 ⁻⁷
Rated Current	A/Phase		2.8		
Basic Step Angle			1.8°		
Power Source			20~40 VDC 3.7A		
Excitation Mode			Microstep		
Mass	Motor	kg	0.46	0.73	1.1
	Driver	kg	0.35		

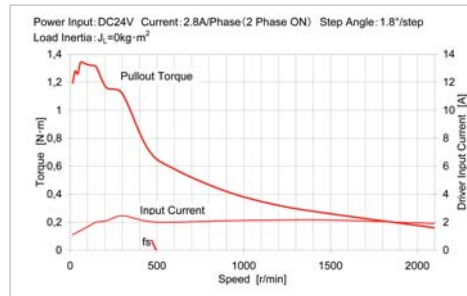
■ Speed – Torque Characteristics

● 24 VDC Input

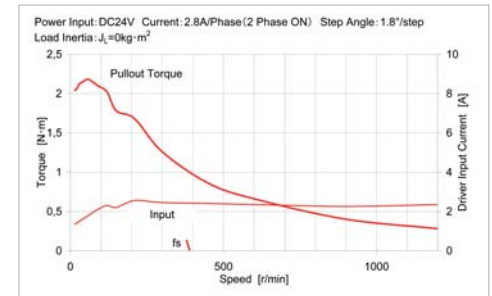
RBK264PA/RBK264PB



RBK266PA/RBK266PB

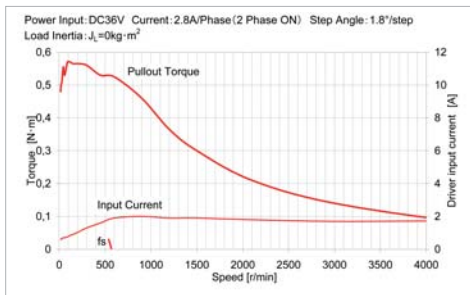


RBK268PA/RBK268PB

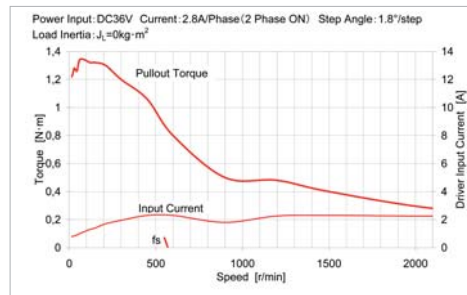


● 36 VDC Input

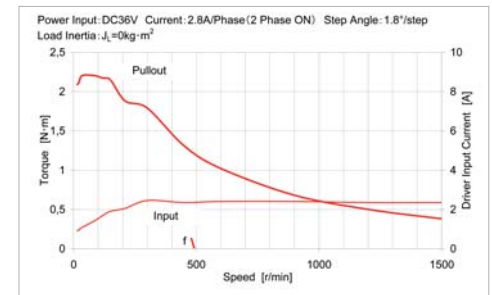
RBK264PA/RBK264PB



RBK266PA/RBK266PB



RBK268PA/RBK268PB



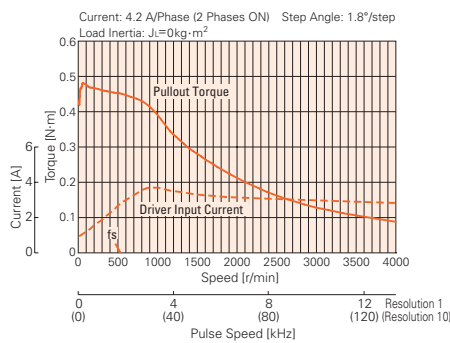
● Standard Type: Motor Frame Size 56.4 mm

Model	Single Shaft		RBK264A	RBK266A	RBK268A
	Double Shaft		RBK264B	RBK266B	RBK268B
Maximum Holding Torque	N·m		0.48	1.17	1.75
Rotor Inertia	J:kg·m ²		120 x 10 ⁻⁷	300 x 10 ⁻⁷	480 x 10 ⁻⁷
Rated Current	A/Phase		4.2		
Basic Step Angle			1.8°		
Power Source			20~75 VDC 4.9A		
Excitation Mode			Microstep		
Mass	Motor	kg	0.45	0.7	1
	Driver	kg	0.35		

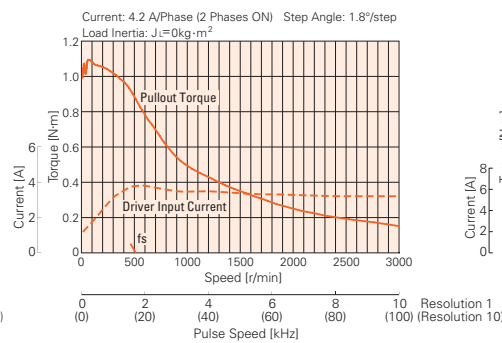
■ Speed – Torque Characteristics

● 24 VDC Input

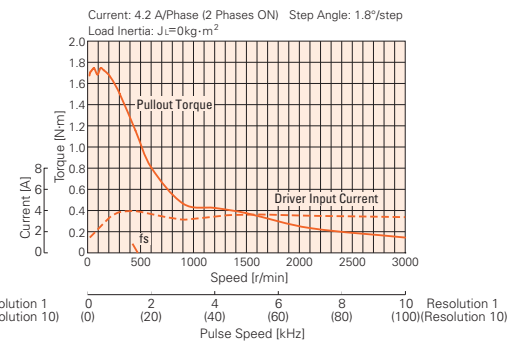
RBK264A/RBK264B



RBK266A/RBK266B

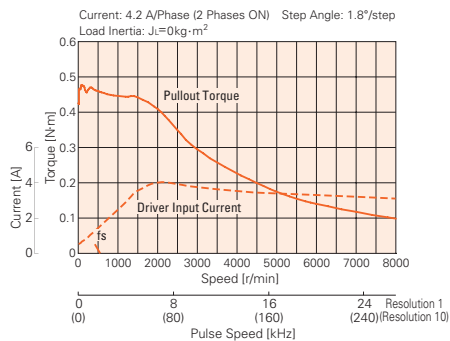


RBK268A/RBK268B

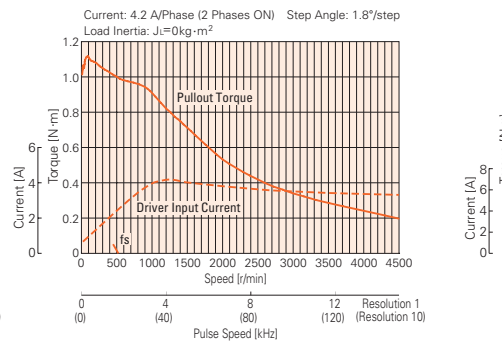


● 48 VDC Input

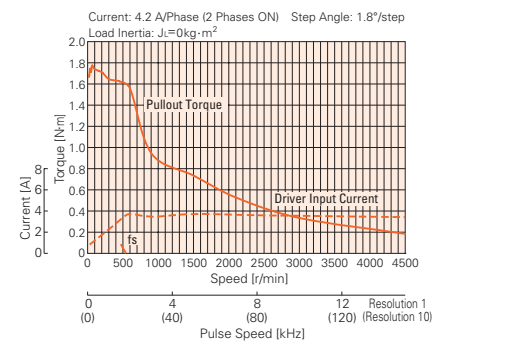
RBK264A/RBK264B



RBK266A/RBK266B

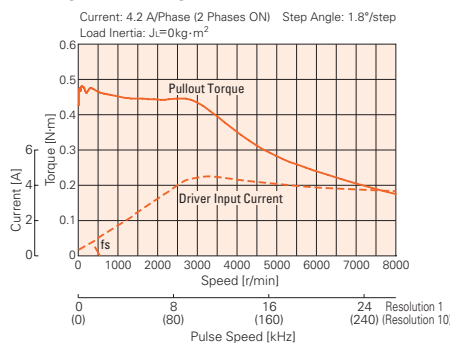


RBK268A/RBK268B

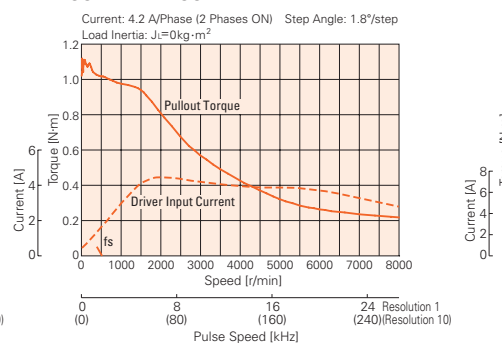


● 75 VDC Input

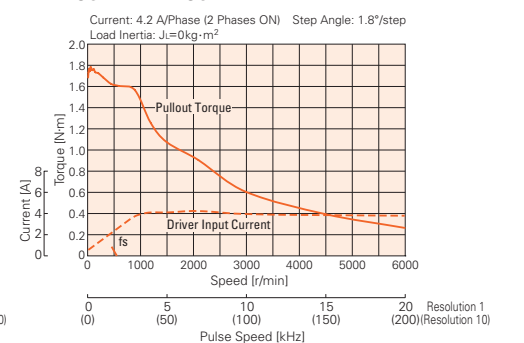
RBK264A/RBK264B



RBK266A/RBK266B



RBK268A/RBK268B



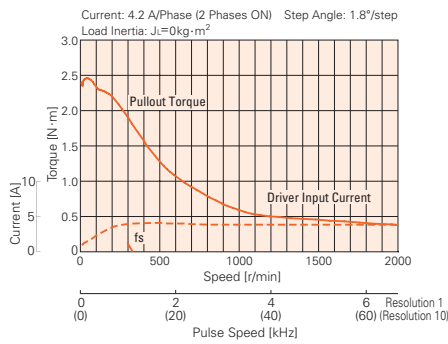
Standard Type: Motor Frame Size 85 mm

Model	Single Shaft		RBK296A	RBK299A	RBK2913A
	Double Shaft		RBK296B	RBK299B	RBK2913B
Maximum Holding Torque	N·m		2.2	4.4	6.6
Rotor Inertia	J:kg·m ²		1400 x 10 ⁻⁷	2700 x 10 ⁻⁷	4000 x 10 ⁻⁷
Rated Current	A/Phase		4.5		
Basic Step Angle			1.8°		
Power Source			20~75 VDC 5.2A		
Excitation Mode			Microstep		
Mass	Motor	kg	1.7	2.8	3.8
	Driver	kg	0.35		

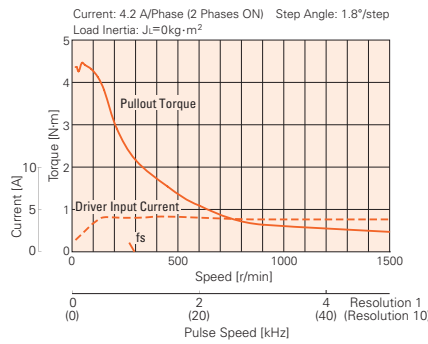
Speed – Torque Characteristics

24 VDC Input

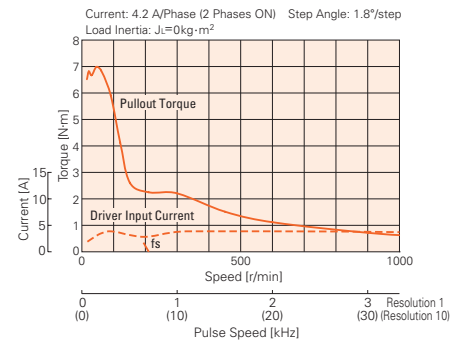
RBK296A/RBK296B



RBK299A/RBK299B

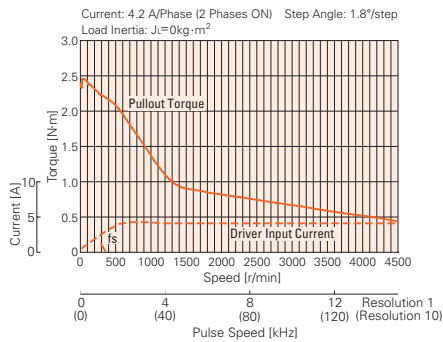


RBK2913A/RBK2913B

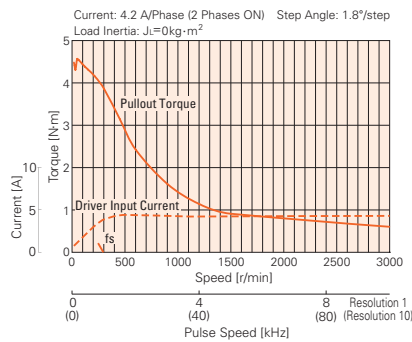


48 VDC Input

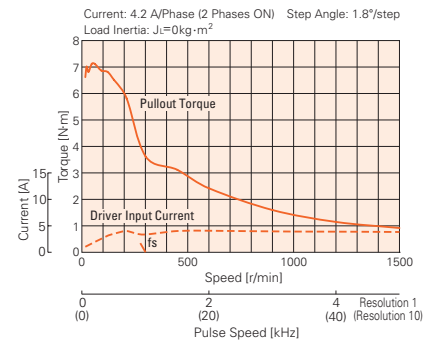
RBK296A/RBK296B



RBK299A/RBK299B

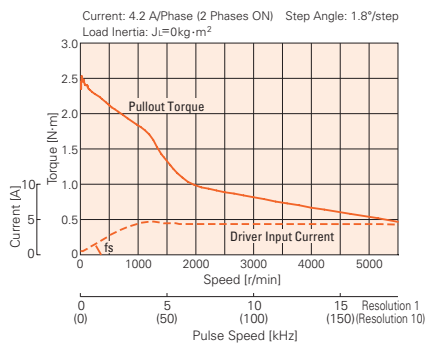


RBK2913A/RBK2913B

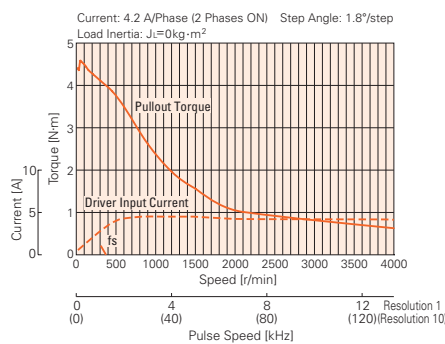


75 VDC Input

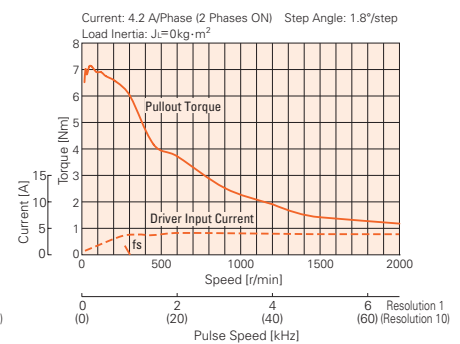
RBK296A/RBK296B



RBK299A/RBK299B



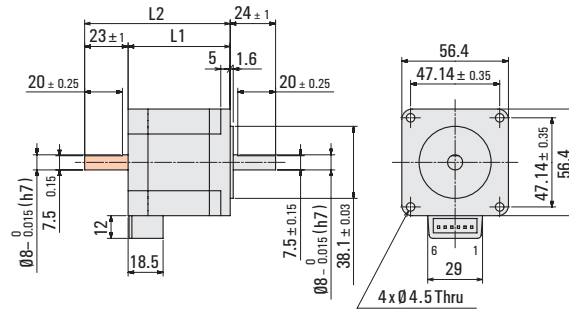
RBK2913A/RBK2913B



■ Dimensions (Unit = mm)

● High-Torque Type: Motor Frame Size 56.4 mm

Model	Motor Model	L1	L2
RBK264PA	PK264PDA	39	-
RBK264PB	PK264PDB		62
RBK266PA	PK266PDA	54	-
RBK266PB	PK266PDB		77
RBK268PA	PK268PDA	76	-
RBK268PB	PK268PDB		99



- These dimensions are for double shaft models. For single shaft models, ignore the orange (■) areas.

Motor Cable: LC2B06C

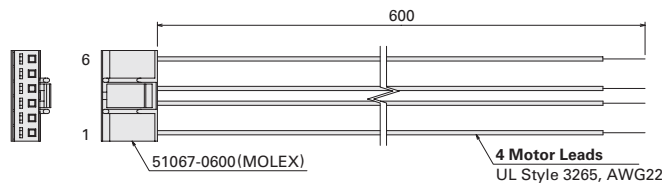
Motor Lead Wire/Connector assembly (0.6 m) is included with the motor and driver package. If you are purchasing only a motor, motor lead wire/connector assembly and connector will not be supplied. They must be purchased separately.

Applicable Connector

Connector Housing: 51067-0600 (MOLEX)

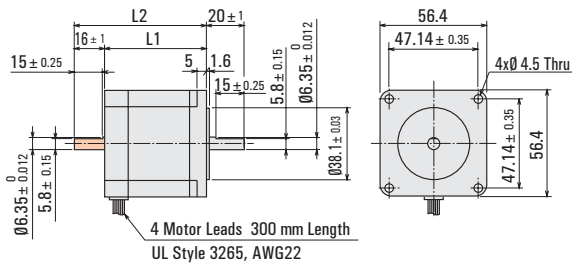
Contact: 50217-9101 (MOLEX)

Crimp Tool: 57189-5000 (MOLEX)
57190-5000 (MOLEX)



● Standard Type: Motor Frame Size 56.4 mm

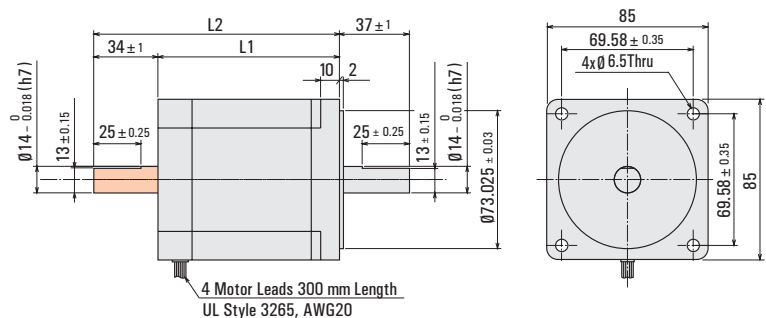
Model	Motor Model	L1	L2
RBK264A	PK264DA	39	-
RBK264B	PK264DB		55
RBK266A	PK266DA	54	-
RBK266B	PK266DB		70
RBK268A	PK268DA	76	-
RBK268B	PK268DB		92



- These dimensions are for double shaft models. For single shaft models, ignore the orange (■) areas.

● Standard Type: Motor Frame Size 85 mm

Model	Motor Model	L1	L2
RBK296A	PK296DA	66	-
RBK296B	PK296DB		100
RBK299A	PK299DA	96	-
RBK299B	PK299DB		130
RBK2913A	PK2913DA	126	-
RBK2913B	PK2913DB		160



- These dimensions are for double shaft models. For single shaft models, ignore the orange (■) areas.

■ Accessories

● Flexible Couplings (Sold separately) (RoHS)

● Features of MCS Couplings

This three-piece coupling adopts an aluminum alloy hub and a resin spider. The simple construction ensures that the high torque generated by a geared motor can be transmitted reliably. The proper elasticity of the spider suppresses motor vibration.

- A spider (material: polyurethane) controls the vibration generated by the motor
- No backlash



● Mounting Brackets (Sold separately) (RoHS)

Mounting brackets are convenient for installation and securing a stepping motor.



● DIN Rail Mounting Plate (Sold separately) (RoHS) (Available when the input voltage to the driver is 48 VDC or less)

This mounting plate is convenient for installing the driver of **RBK** Series on DIN rails with ease.

Model: **PADP01**



● Controller (Sold separately)

Controller for Stepping Motor

SG8030JY (RoHS)

All operations including data setting can easily be performed using the four touch pads on the top panel. In addition, the number of signal lines is reduced to a minimum for easy connection.



DIN Rail Mounting Model



Recessed Mounting Model

This product is manufactured at a plant certified with the international standards **ISO 9001** (for quality assurance) and **ISO 14001** (for systems of environmental management).

Specifications are subject to change without notice.

This catalogue was published in October, 2009.

Orientalmotor

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