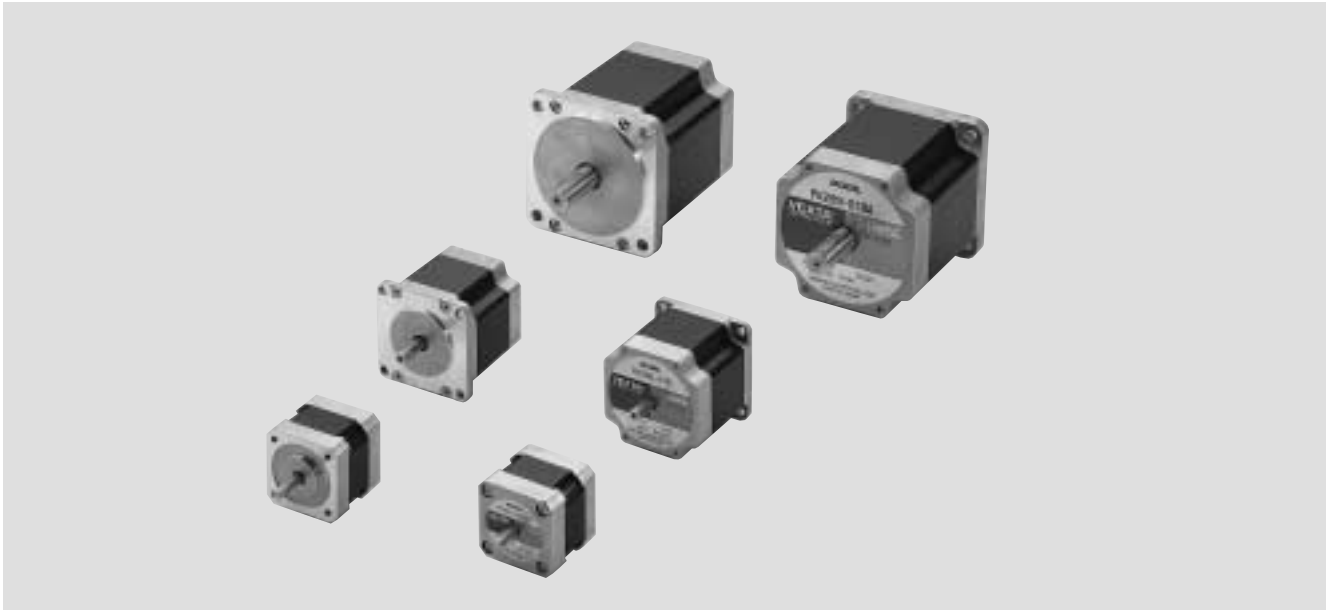


## 2-PHASE STEPPING MOTORS

Features .....B-268  
 Product Specifications .....B-270  
 2-Phase Stepping Motors .....B-274  
 Speed vs. Torque Characteristics .....B-282

# 2-PHASE STEPPING MOTORS

Standard Type  
High-Resolution Type  
SH Geared Type



## 1. High Torque

The high torque of the **PK** type motor makes it possible to drive large equipment and is effective for equipment downsizing and for keeping heat generation low. The maximum static torque values are as follows.

**PK24** □ : 22.2 oz-in (0.16N·m)~44.4 oz-in (0.32N·m)

**PK26** □ : 54.1 oz-in (0.39N·m)~187 oz-in (1.35N·m)

**PK29** □ : 305 oz-in (2.2N·m)~916 oz-in (6.6N·m)

## 2. Low Vibration

The **PK** motors do more than provide high torque: they were also designed to produce less vibration. This makes **PK** motors the ideal choice for micro-step driving.

## 3. Low Audible Noise

The **PK** motor was designed to produce low audible noise.

## 4. Wide Variety

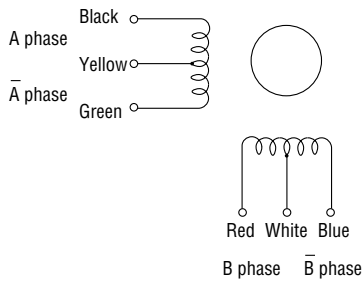
This product line has a wide range of winding specifications that can be used with many driver types. **PK** motors also come in two basic step angles: standard (1.8°/step) and high-resolution (0.9°/step).

## 5. Powerful SH Geared Type

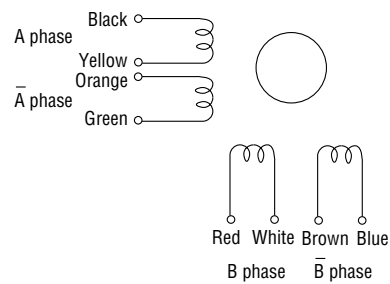
The high-torque 2-phase stepping motor also includes the **SH** geared type that combines the high permissible torque **SH** gears. Six gear ratios are available: 3.6:1, 7.2:1, 9:1, 10:1, 18:1 and 36:1.

## WINDINGS

### 6 Lead Wire Type

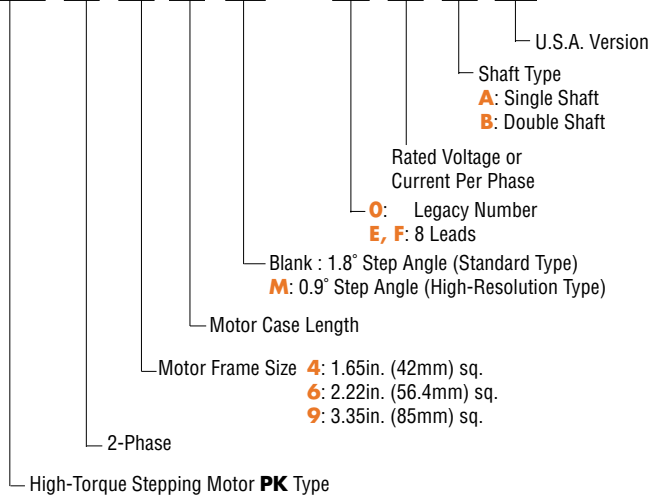


### 8 Lead Wire Type

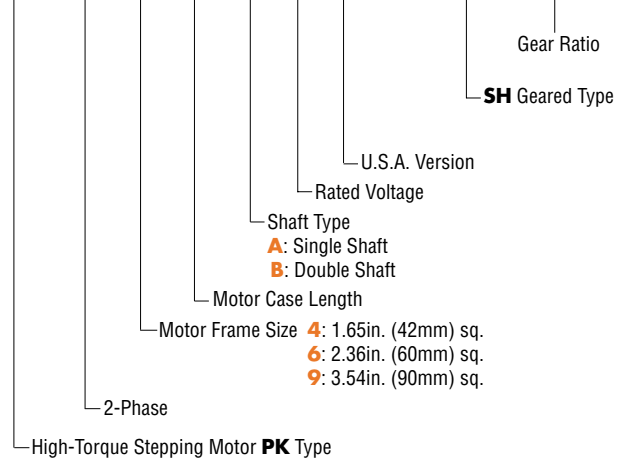


## PRODUCT NUMBER CODE

**PK 2 6 6 □ - 0 1 B A**



**PK 2 6 4 A 1 A - SG 10**



## ACCESSORIES (sold separately)

- Motor Mounting Brackets  
Page B-298



Mounting brackets are cannot be fitted to **SH** geared types.

- Clean Dampers  
Page B-300

Effective at suppressing motor vibration and improving performance.



- Flexible Couplings  
Page B-301

**MC** Motor Couplings



- Flexible Couplings  
Page B-303

**MCL** Gearmotor Couplings



See page B-41 for general specifications of stepping motors.

# PRODUCT SPECIFICATIONS OF 2-PHASE STEPPING MOTORS

## ■ Standard Type and High-Resolution Type

Model ( Single Shaft Double Shaft )	Basic Step Angle	Holding Torque* oz-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Rotor Inertia J oz-in <sup>2</sup> kg·m <sup>2</sup>	Weight (Mass) lb. (kg)	Page
<b>PK243-01AA</b>	1.8°	22.2	0.95	4	4.2	0.192 35×10 <sup>-7</sup>	0.47 (0.21)	B-274
<b>PK243-01BA</b>		0.16						
<b>PK243-02AA</b>	1.8°	22.2	0.4	9.6	24	0.192 35×10 <sup>-7</sup>	0.47 (0.21)	B-274
<b>PK243-02BA</b>		0.16						
<b>PK243-03AA</b>	1.8°	22.2	0.31	12	38.5	0.192 35×10 <sup>-7</sup>	0.47 (0.21)	B-274
<b>PK243-03BA</b>		0.16						
<b>PK244-01AA</b>	1.8°	36.1	1.2	4	3.3	0.296 54×10 <sup>-7</sup>	0.6 (0.27)	B-274
<b>PK244-01BA</b>		0.26						
<b>PK244-02AA</b>	1.8°	36.1	0.8	6	7.5	0.296 54×10 <sup>-7</sup>	0.6 (0.27)	B-274
<b>PK244-02BA</b>		0.26						
<b>PK244-03AA</b>	1.8°	36.1	0.4	12	30	0.296 54×10 <sup>-7</sup>	0.6 (0.27)	B-274
<b>PK244-03BA</b>		0.26						
<b>PK244-04AA</b>	1.8°	36.1	0.2	24	120	0.296 54×10 <sup>-7</sup>	0.6 (0.27)	B-274
<b>PK244-04BA</b>		0.26						
<b>PK245-01AA</b>	1.8°	44.4	1.2	4	3.3	0.372 68×10 <sup>-7</sup>	0.78 (0.35)	B-274
<b>PK245-01BA</b>		0.32						
<b>PK245-02AA</b>	1.8°	44.4	0.8	6	7.5	0.372 68×10 <sup>-7</sup>	0.78 (0.35)	B-274
<b>PK245-02BA</b>		0.32						
<b>PK245-03AA</b>	1.8°	44.4	0.4	12	30	0.372 68×10 <sup>-7</sup>	0.78 (0.35)	B-274
<b>PK245-03BA</b>		0.32						
<b>PK243M-01AA</b>	0.9°	22.2	0.95	4	4.2	0.192 35×10 <sup>-7</sup>	0.47 (0.21)	B-275
<b>PK243M-01BA</b>		0.16						
<b>PK243M-02AA</b>	0.9°	22.2	0.6	6	10	0.192 35×10 <sup>-7</sup>	0.47 (0.21)	B-275
<b>PK243M-02BA</b>		0.16						
<b>PK243M-03AA</b>	0.9°	22.2	0.31	12	38.5	0.192 35×10 <sup>-7</sup>	0.47 (0.21)	B-275
<b>PK243M-03BA</b>		0.16						
<b>PK244M-01AA</b>	0.9°	36.1	1.2	4	3.3	0.296 54×10 <sup>-7</sup>	0.6 (0.27)	B-275
<b>PK244M-01BA</b>		0.26						
<b>PK244M-02AA</b>	0.9°	36.1	0.8	6	7.5	0.296 54×10 <sup>-7</sup>	0.6 (0.27)	B-275
<b>PK244M-02BA</b>		0.26						
<b>PK244M-03AA</b>	0.9°	36.1	0.4	12	30	0.296 54×10 <sup>-7</sup>	0.6 (0.27)	B-275
<b>PK244M-03BA</b>		0.26						
<b>PK245M-01AA</b>	0.9°	44.4	1.2	4	3.3	0.372 68×10 <sup>-7</sup>	0.78 (0.35)	B-275
<b>PK245M-01BA</b>		0.32						
<b>PK245M-02AA</b>	0.9°	44.4	0.8	6	7.5	0.372 68×10 <sup>-7</sup>	0.78 (0.35)	B-275
<b>PK245M-02BA</b>		0.32						
<b>PK245M-03AA</b>	0.9°	44.4	0.4	12	30	0.372 68×10 <sup>-7</sup>	0.78 (0.35)	B-275
<b>PK245M-03BA</b>		0.32						

\* The value given for holding torque is the value when operated with rated voltage and two phase excitation.

## Standard Type and High-Resolution Type

Model ( Single Shaft Double Shaft )		Basic Step Angle	Holding Torque* oz-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Rotor Inertia J oz-in <sup>2</sup> kg·m <sup>2</sup>	Weight (Mass) lb. (kg)	Page
6 leads	8 leads								
<b>PK264-01A</b>		1.8°	54.1	1	5.7	5.7	0.66 120×10 <sup>-7</sup>	1 (0.45)	B-276
<b>PK264-01B</b>			0.39						
<b>PK264-02A</b>	<b>PK264-E2.0A</b>	1.8°	54.1	2	2.8	1.4	0.66 120×10 <sup>-7</sup>	1 (0.45)	B-276
<b>PK264-02B</b>	<b>PK264-E2.0B</b>		0.39						
<b>PK264-03A</b>		1.8°	54.1	3	1.9	0.63	0.66 120×10 <sup>-7</sup>	1 (0.45)	B-276
<b>PK264-03B</b>			0.39						
<b>PK266-01A</b>		1.8°	124	1	7.4	7.4	1.64 300×10 <sup>-7</sup>	1.55 (0.7)	B-276
<b>PK266-01B</b>			0.9						
<b>PK266-02A</b>	<b>PK266-E2.0A</b>	1.8°	124	2	3.6	1.8	1.64 300×10 <sup>-7</sup>	1.55 (0.7)	B-276
<b>PK266-02B</b>	<b>PK266-E2.0B</b>		0.9						
<b>PK266-03A</b>		1.8°	124	3	2.3	0.75	1.64 300×10 <sup>-7</sup>	1.55 (0.7)	B-276
<b>PK266-03B</b>			0.9						
<b>PK268-01A</b>		1.8°	187	1	8.6	8.6	2.63 480×10 <sup>-7</sup>	2.21 (1)	B-276
<b>PK268-01B</b>			1.35						
<b>PK268-02A</b>	<b>PK268-E2.0A</b>	1.8°	187	2	4.5	2.25	2.63 480×10 <sup>-7</sup>	2.21 (1)	B-276
<b>PK268-02B</b>	<b>PK268-E2.0B</b>		1.35						
<b>PK268-03A</b>		1.8°	187	3	3	1	2.63 480×10 <sup>-7</sup>	2.21 (1)	B-276
<b>PK268-03B</b>			1.35						
<b>PK264M-01A</b>		0.9°	54.1	1	5.7	5.7	0.66 120×10 <sup>-7</sup>	1 (0.45)	B-277
<b>PK264M-01B</b>			0.39						
<b>PK264M-02A</b>		0.9°	54.1	2	2.8	1.4	0.66 120×10 <sup>-7</sup>	1 (0.45)	B-277
<b>PK264M-02B</b>			0.39						
<b>PK264M-03A</b>		0.9°	54.1	3	1.9	0.63	0.66 120×10 <sup>-7</sup>	1 (0.45)	B-277
<b>PK264M-03B</b>			0.39						
<b>PK266M-01A</b>		0.9°	124	1	7.4	7.4	1.64 300×10 <sup>-7</sup>	1.55 (0.7)	B-277
<b>PK266M-01B</b>			0.9						
<b>PK266M-02A</b>		0.9°	124	2	3.6	1.8	1.64 300×10 <sup>-7</sup>	1.55 (0.7)	B-277
<b>PK266M-02B</b>			0.9						
<b>PK266M-03A</b>		0.9°	124	3	2.3	0.75	1.64 300×10 <sup>-7</sup>	1.55 (0.7)	B-277
<b>PK266M-03B</b>			0.9						
<b>PK268M-01A</b>		0.9°	187	1	8.6	8.6	2.63 480×10 <sup>-7</sup>	2.21 (1)	B-277
<b>PK268M-01B</b>			1.35						
<b>PK268M-02A</b>		0.9°	187	2	4.5	2.25	2.63 480×10 <sup>-7</sup>	2.21 (1)	B-277
<b>PK268M-02B</b>			1.35						
<b>PK268M-03A</b>		0.9°	187	3	3	1	2.63 480×10 <sup>-7</sup>	2.21 (1)	B-277
<b>PK268M-03B</b>			1.35						
<b>PK296-01AA</b>		1.8°	305	2	4.4	2.2	7.66 1400×10 <sup>-7</sup>	3.75 (1.7)	B-278
<b>PK296-01BA</b>			2.2						
<b>PK296-02AA</b>		1.8°	305	3	3	1	7.66 1400×10 <sup>-7</sup>	3.75 (1.7)	B-278
<b>PK296-02BA</b>			2.2						
<b>PK296-03AA</b>	<b>PK296-F4.5A</b>	1.8°	305	4.5	2	0.48	7.66 1400×10 <sup>-7</sup>	3.75 (1.7)	B-278
<b>PK296-03BA</b>	<b>PK296-F4.5B</b>		2.2						
<b>PK299-01AA</b>		1.8°	611	2	6.4	3.2	14.8 2700×10 <sup>-7</sup>	6.18 (2.8)	B-278
<b>PK299-01BA</b>			4.4						
<b>PK299-02AA</b>		1.8°	611	3	4.2	1.5	14.8 2700×10 <sup>-7</sup>	6.18 (2.8)	B-278
<b>PK299-02BA</b>			4.4						
<b>PK299-03AA</b>	<b>PK299-F4.5A</b>	1.8°	611	4.5	2.8	0.66	14.8 2700×10 <sup>-7</sup>	6.18 (2.8)	B-278
<b>PK299-03BA</b>	<b>PK299-F4.5B</b>		4.4						
<b>PK2913-01AA</b>		1.8°	916	2	7.6	3.8	21.9 4000×10 <sup>-7</sup>	8.38 (3.8)	B-278
<b>PK2913-01BA</b>			6.6						
<b>PK2913-02AA</b>	<b>PK2913-F4.0A</b>	1.8°	916	4	3.8	0.97	21.9 4000×10 <sup>-7</sup>	8.38 (3.8)	B-278
<b>PK2913-02BA</b>	<b>PK2913-F4.0B</b>		6.6						

\* The value given for holding torque is the value when operated with rated voltage and two phase excitation.

## ■ SH Geared Type

Model ( Single Shaft Double Shaft )	Basic Step Angle	Holding Torque* lb-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Rotor Inertia J oz-in <sup>2</sup> kg·m <sup>2</sup>	Weight (Mass) lb. (kg)	Page
<b>PK243A1A-SG3.6</b> <b>PK243B1A-SG3.6</b>	0.5°	1.73 0.2	0.95	4	4.2	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A1A-SG7.2</b> <b>PK243B1A-SG7.2</b>	0.25°	3.47 0.4	0.95	4	4.2	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A1A-SG9</b> <b>PK243B1A-SG9</b>	0.2°	4.33 0.5	0.95	4	4.2	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A1A-SG10</b> <b>PK243B1A-SG10</b>	0.18°	4.86 0.56	0.95	4	4.2	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A1A-SG18</b> <b>PK243B1A-SG18</b>	0.1°	6.94 0.8	0.95	4	4.2	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A1A-SG36</b> <b>PK243B1A-SG36</b>	0.05°	6.94 0.8	0.95	4	4.2	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A2A-SG3.6</b> <b>PK243B2A-SG3.6</b>	0.5°	1.73 0.2	0.4	9.6	24	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A2A-SG7.2</b> <b>PK243B2A-SG7.2</b>	0.25°	3.47 0.4	0.4	9.6	24	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A2A-SG9</b> <b>PK243B2A-SG9</b>	0.2°	4.33 0.5	0.4	9.6	24	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A2A-SG10</b> <b>PK243B2A-SG10</b>	0.18°	4.86 0.56	0.4	9.6	24	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A2A-SG18</b> <b>PK243B2A-SG18</b>	0.1°	6.94 0.8	0.4	9.6	24	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK243A2A-SG36</b> <b>PK243B2A-SG36</b>	0.05°	6.94 0.8	0.4	9.6	24	0.192 35×10 <sup>-7</sup>	0.78 (0.35)	B-279
<b>PK264A1A-SG3.6</b> <b>PK264B1A-SG3.6</b>	0.5°	8.67 1	1	5.7	5.7	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264A1A-SG7.2</b> <b>PK264B1A-SG7.2</b>	0.25°	17.3 2	1	5.7	5.7	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264A1A-SG9</b> <b>PK264B1A-SG9</b>	0.2°	21.6 2.5	1	5.7	5.7	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264A1A-SG10</b> <b>PK264B1A-SG10</b>	0.18°	23.4 2.7	1	5.7	5.7	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264A1A-SG18</b> <b>PK264B1A-SG18</b>	0.1°	26 3	1	5.7	5.7	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264A1A-SG36</b> <b>PK264B1A-SG36</b>	0.05°	34.7 4	1	5.7	5.7	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264A2A-SG3.6</b> <b>PK264B2A-SG3.6</b>	0.5°	8.67 1	2	2.8	1.4	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264A2A-SG7.2</b> <b>PK264B2A-SG7.2</b>	0.25°	17.3 2	2	2.8	1.4	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264A2A-SG9</b> <b>PK264B2A-SG9</b>	0.2°	21.6 2.5	2	2.8	1.4	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264A2A-SG10</b> <b>PK264B2A-SG10</b>	0.18°	23.4 2.7	2	2.8	1.4	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264A2A-SG18</b> <b>PK264B2A-SG18</b>	0.1°	26 3	2	2.8	1.4	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280
<b>PK264B2A-SG36</b> <b>PK264B2A-SG36</b>	0.05°	34.7 4	2	2.8	1.4	0.66 120×10 <sup>-7</sup>	1.66 (0.75)	B-280

\* The value given for holding torque is the value when operated with rated voltage and two phase excitation.

● All SH geared type motors have six lead wires.

## ■ SH Geared Type

Model ( Single Shaft Double Shaft )	Basic Step Angle	Holding Torque* lb-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Rotor Inertia J oz-in <sup>2</sup> kg·m <sup>2</sup>	Weight (Mass) lb. (kg)	Page
<b>PK296A1A-SG3.6</b>	0.5°	21.6	1.5	3.3	2.2	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B1A-SG3.6</b>		2.5						
<b>PK296A1A-SG7.2</b>	0.25°	43.3	1.5	3.3	2.2	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B1A-SG7.2</b>		5						
<b>PK296A1A-SG9</b>	0.2°	54.6	1.5	3.3	2.2	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B1A-SG9</b>		6.3						
<b>PK296A1A-SG10</b>	0.18°	60.7	1.5	3.3	2.2	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B1A-SG10</b>		7						
<b>PK296A1A-SG18</b>	0.1°	78.1	1.5	3.3	2.2	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B1A-SG18</b>		9						
<b>PK296A1A-SG36</b>	0.05°	104	1.5	3.3	2.2	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B1A-SG36</b>		12						
<b>PK296A2A-SG3.6</b>	0.5°	21.6	3	1.4	0.48	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B2A-SG3.6</b>		2.5						
<b>PK296A2A-SG7.2</b>	0.25°	43.3	3	1.4	0.48	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B2A-SG7.2</b>		5						
<b>PK296A2A-SG9</b>	0.2°	54.6	3	1.4	0.48	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B2A-SG9</b>		6.3						
<b>PK296A2A-SG10</b>	0.18°	60.7	3	1.4	0.48	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B2A-SG10</b>		7						
<b>PK296A2A-SG18</b>	0.1°	78.1	3	1.4	0.48	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B2A-SG18</b>		9						
<b>PK296A2A-SG36</b>	0.05	104	3	1.4	0.48	7.7 1400×10 <sup>-7</sup>	6.18(2.8)	B-281
<b>PK296B2A-SG36</b>		12						

\* The value given for holding torque is the value when operated with rated voltage and two phase excitation.

● All **SH** geared type motors have six lead wires.

# 2-Phase Stepping Motors High-Torque Type

# PK24

Step Angle 1.8°



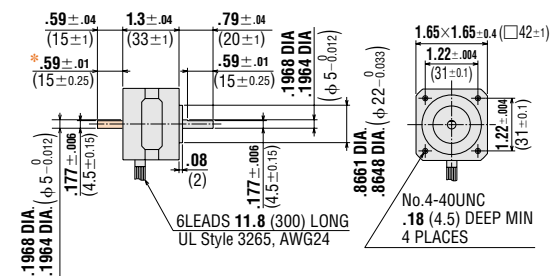
## SPECIFICATIONS (at 2-phase excitation)

Model (Single Shaft) (Double Shaft)	Holding Torque oz-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J oz-in <sup>2</sup> kg·m <sup>2</sup>	Corresponding AC/DC-input Motor & Driver Package	Page with speed vs. torque characteristics
<b>PK243-01AA</b>	22.2	0.95	4	4.2	2.5	0.192 35×10 <sup>-7</sup>	<b>UMK243</b> □A/ <b>CSK243</b> -□TA	B-216
<b>PK243-01BA</b>	0.16							B-239
<b>PK243-02AA</b>	22.2							0.4
<b>PK243-02BA</b>	0.16							
<b>PK243-03AA</b>	22.2	0.31	12	38.5	21	0.192 35×10 <sup>-7</sup>	—	B-282
<b>PK243-03BA</b>	0.16							
<b>PK244-01AA</b>	36.1							1.2
<b>PK244-01BA</b>	0.26	B-239						
<b>PK244-02AA</b>	36.1	0.8	6	7.5	6.7	0.296 54×10 <sup>-7</sup>	—	
<b>PK244-02BA</b>	0.26							
<b>PK244-03AA</b>	36.1	0.4	12	30	30	0.296 54×10 <sup>-7</sup>	—	B-282
<b>PK244-03BA</b>	0.26							
<b>PK244-04AA</b>	36.1							0.2
<b>PK244-04BA</b>	0.26							
<b>PK245-01AA</b>	44.4	1.2	4	3.3	2.8	0.372 68×10 <sup>-7</sup>	<b>UMK245</b> □A/ <b>CSK245</b> -□TA	
<b>PK245-01BA</b>	0.32							B-239
<b>PK245-02AA</b>	44.4							0.8
<b>PK245-02BA</b>	0.32							
<b>PK245-03AA</b>	44.4	0.4	12	30	25	0.372 68×10 <sup>-7</sup>	—	B-282
<b>PK245-03BA</b>	0.32							

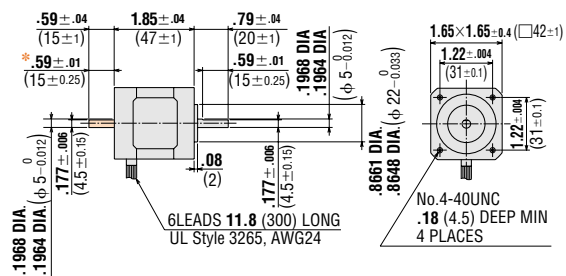
- If you are considering buying both a motor and a driver, we recommend the purchase of one of the AC-input **UMK** series or DC-input **CSK** series products, which combine a dedicated motor and driver into a single package.
- The motors in the table above cannot be connected to **UMK** series or **CSK** series drivers. Consult your local sales office regarding drivers before making a purchase.
- For the speed vs. torque characteristics of the motors in the above table, see the corresponding **UMK** series or **CSK** series characteristics. If there is no applicable Motor and driver package, see the speed vs. torque characteristics on page B-282.

## DIMENSIONS Scale 1/4, unit = inch (mm)

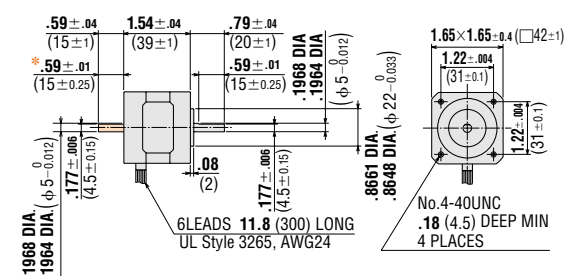
- **PK243-01AA, -02AA, -03AA** (Single shaft) Weight 0.47 lb. (Mass 0.21kg)
- **PK243-01BA, -02BA, -03BA** (Double shaft) Weight 0.47 lb. (Mass 0.21kg)



- **PK245-01AA, -02AA, -03AA** (Single shaft) Weight 0.78 lb. (Mass 0.35kg)
- **PK245-01BA, -02BA, -03BA** (Double shaft) Weight 0.78 lb. (Mass 0.35kg)



- **PK244-01AA, -02AA, -03AA, -04AA** (Single shaft) Weight 0.6 lb. (Mass 0.27kg)
- **PK244-01BA, -02BA, -03BA, -04BA** (Double shaft) Weight 0.6 lb. (Mass 0.27kg)



- These external appearance drawings are for double shaft models. For a single shaft, ignore the colored areas.
  - \* .59±.01 (15±0.25) indicates the length of milling on motor shaft.
- See page B-36 for information on motor installation.





# 2-Phase Stepping Motors High-Torque Type

## PK26□

Step Angle 1.8°



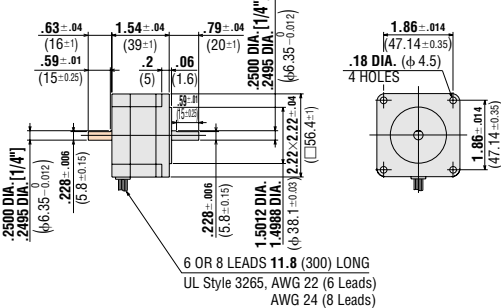
### SPECIFICATIONS (at 2-phase excitation)

Model (Single Shaft / Double Shaft)	Holding Torque oz-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J oz-in <sup>2</sup> kg·m <sup>2</sup>	Corresponding AC/DC-input Motor & Driver Package (6 lead wires model only)	Page with speed vs. torque characteristics
<b>PK264-01A</b>	54.1	1	5.7	5.7	5.4	0.66 120×10 <sup>-7</sup>	—	B-284
<b>PK264-01B</b>	0.39							
<b>PK264-02A</b> <b>PK264-E2.0A</b>	54.1	2	2.8	1.4	1.4	0.66 120×10 <sup>-7</sup>	<b>UMK264□A/</b> <b>CSK264-□TA</b>	B-216 B-240
<b>PK264-02B</b> <b>PK264-E2.0B</b>	0.39							
<b>PK264-03A</b>	54.1	3	1.9	0.63	0.6	0.66 120×10 <sup>-7</sup>	—	B-284
<b>PK264-03B</b>	0.39							
<b>PK266-01A</b>	124	1	7.4	7.4	10	1.64 300×10 <sup>-7</sup>	—	B-284
<b>PK266-01B</b>	0.9							
<b>PK266-02A</b> <b>PK266-E2.0A</b>	124	2	3.6	1.8	2.5	1.64 300×10 <sup>-7</sup>	<b>UMK266□A/</b> <b>CSK266-□TA</b>	B-216 B-240
<b>PK266-02B</b> <b>PK266-E2.0B</b>	0.9							
<b>PK266-03A</b>	124	3	2.3	0.75	1.1	1.64 300×10 <sup>-7</sup>	—	B-284
<b>PK266-03B</b>	0.9							
<b>PK268-01A</b>	187	1	8.6	8.6	14	2.63 480×10 <sup>-7</sup>	—	B-284
<b>PK268-01B</b>	1.35							
<b>PK268-02A</b> <b>PK268-E2.0A</b>	187	2	4.5	2.25	3.6	2.63 480×10 <sup>-7</sup>	<b>UMK268□A/</b> <b>CSK268-□TA</b>	B-216 B-240
<b>PK268-02B</b> <b>PK268-E2.0B</b>	1.35							
<b>PK268-03A</b>	187	3	3	1	1.6	2.63 480×10 <sup>-7</sup>	—	B-284
<b>PK268-03B</b>	1.35							

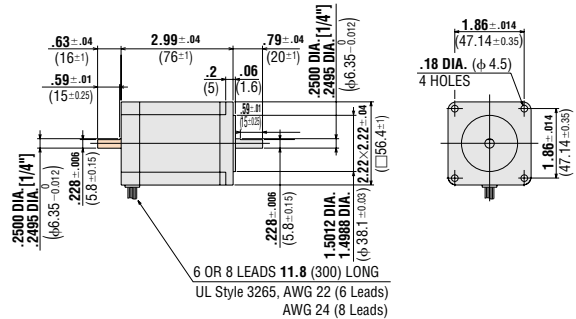
- If you are considering buying both a motor and a driver, we recommend the purchase of one of the AC-input **UMK** series or DC-input **CSK** series products, which combine a dedicated motor and driver into a single package.
- The motors in the table above cannot be connected to **UMK** series or **CSK** series drivers. Consult your local sales office regarding drivers before making a purchase.
- For the speed vs. torque characteristics of the motors in the above table, see the corresponding **UMK** series or **CSK** series characteristics. If there is no applicable Motor and driver package, see the speed vs. torque characteristics on page B-284.

### DIMENSIONS Scale 1/5, unit = inch (mm)

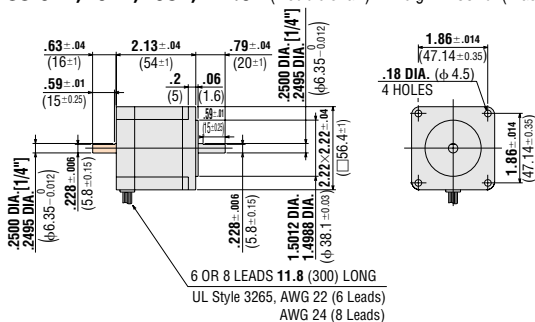
- **PK264-01A, -02A, -03A, -E2.0A** (Single shaft) Weight 1 lb. (Mass 0.45kg)
- **PK264-01B, -02B, -03B, -E2.0B** (Double shaft) Weight 1 lb. (Mass 0.45kg)



- **PK268-01A, -02A, -03A, -E2.0A** (Single shaft) Weight 2.21lb. (Mass 1kg)
- **PK268-01B, -02B, -03B, -E2.0B** (Double shaft) Weight 2.21 lb. (Mass 1kg)



- **PK266-01A, -02A, -03A, -E2.0A** (Single shaft) Weight 1.55 lb. (Mass 0.7kg)
- **PK266-01B, -02B, -03B, -E2.0B** (Double shaft) Weight 1.55 lb. (Mass 0.7kg)



- These external appearance drawings are for double shaft models. For a single shaft, ignore the colored areas.

See page B-36 for information on motor installation.



## 2-Phase Stepping Motors High-Resolution Type

# PK26M

Step Angle 0.9°

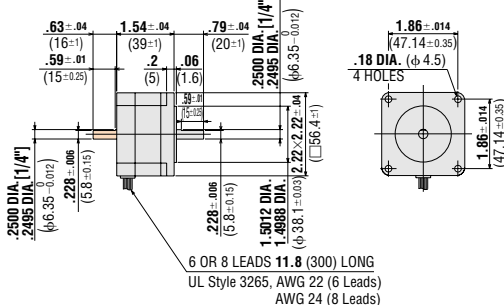
### ■ SPECIFICATIONS (at 2-phase excitation)

Model (Single Shaft / Double Shaft)	Holding Torque oz-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J oz-in <sup>2</sup> kg·m <sup>2</sup>	Corresponding AC/DC-input Motor & Driver Package (6 lead wires model only)	Page with speed vs. torque characteristics
<b>PK264M-01A</b>	54.1	1	5.7	5.7	6.5	0.66 120×10 <sup>-7</sup>	—	B-285
<b>PK264M-01B</b>	0.39							
<b>PK264M-02A PK264M-E2.OA</b>	54.1	2	2.8	1.4	1.7	0.66 120×10 <sup>-7</sup>	<b>UMK264M□A/ CSK264M□TA</b>	B-223 B-245
<b>PK264M-02B PK264M-E2.OB</b>	0.39							
<b>PK264M-03A</b>	54.1	3	1.9	0.63	0.75	0.66 120×10 <sup>-7</sup>	—	B-285
<b>PK264M-03B</b>	0.39							
<b>PK266M-01A</b>	124	1	7.4	7.4	12.7	1.64 300×10 <sup>-7</sup>	—	B-285
<b>PK266M-01B</b>	0.9							
<b>PK266M-02A PK266M-E2.OA</b>	124	2	3.6	1.8	3.2	1.64 300×10 <sup>-7</sup>	<b>UMK266M□A/ CSK266M□TA</b>	B-223 B-245
<b>PK266M-02B PK266M-E2.OB</b>	0.9							
<b>PK266M-03A</b>	124	3	2.3	0.75	1.45	1.64 300×10 <sup>-7</sup>	—	B-285
<b>PK266M-03B</b>	0.9							
<b>PK268M-01A</b>	187	1	8.6	8.6	19.4	2.63 480×10 <sup>-7</sup>	—	B-285
<b>PK268M-01B</b>	1.35							
<b>PK268M-02A PK268M-E2.OA</b>	187	2	4.5	2.25	4.8	2.63 480×10 <sup>-7</sup>	<b>UMK268M□A/ CSK268M□TA</b>	B-223 B-245
<b>PK268M-02B PK268M-E2.OB</b>	1.35							
<b>PK268M-03A</b>	187	3	3	1	2.1	2.63 480×10 <sup>-7</sup>	—	B-285
<b>PK268M-03B</b>	1.35							

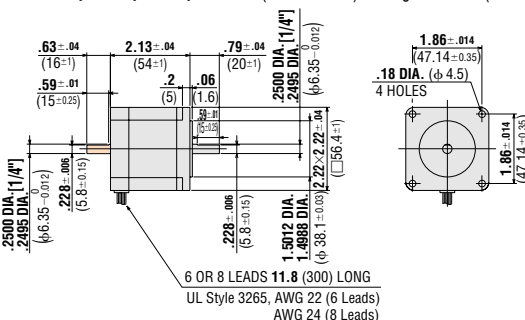
- If you are considering buying both a motor and a driver, we recommend the purchase of one of the AC-input **UMK** series or DC-input **CSK** series products, which combine a dedicated motor and driver into a single package.
- The motors in the table above cannot be connected to **UMK** series or **CSK** series drivers. Consult your local sales office regarding drivers before making a purchase.
- For the speed vs. torque characteristics of the motors in the above table, see the corresponding **UMK** series or **CSK** series characteristics. If there is no applicable Motor and driver package, see the speed vs. torque characteristics on page B-285.

### ■ DIMENSIONS Scale 1/5, unit = inch (mm)

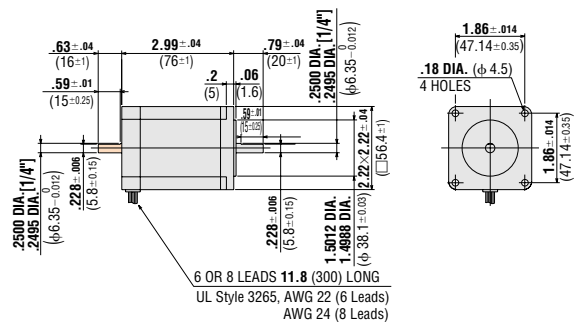
- **PK264M-01A, -02A, -03A, -E2.OA** (Single shaft) Weight 1 lb. (Mass 0.45kg)
- **PK264M-01B, -02B, -03B, -E2.OB** (Double shaft) Weight 1 lb. (Mass 0.45kg)



- **PK266M-01A, -02A, -03A, -E2.OA** (Single shaft) Weight 1.55 lb. (Mass 0.7kg)
- **PK266M-01B, -02B, -03B, -E2.OB** (Double shaft) Weight 1.55 lb. (Mass 0.7kg)



- **PK268M-01A, -02A, -03A, -E2.OA** (Single shaft) Weight 2.21 lb. (Mass 1kg)
- **PK268M-01B, -02B, -03B, -E2.OB** (Double shaft) Weight 2.21 lb. (Mass 1kg)



- These external appearance drawings are for double shaft models. For a single shaft, ignore the colored areas.

See page B-36 for information on motor installation.

# 2-Phase Stepping Motors High-Torque Type

## PK29

Step Angle 1.8°



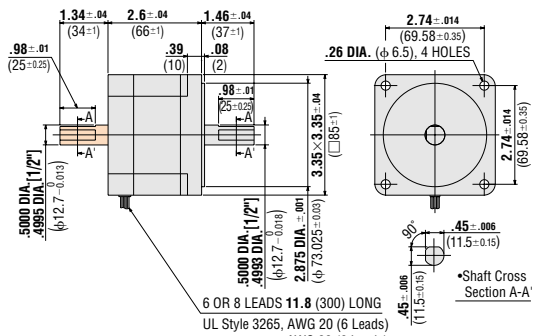
### SPECIFICATIONS (at 2-phase excitation)

Model (Single Shaft / Double Shaft)		Holding Torque oz-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J oz-in <sup>2</sup> kg·m <sup>2</sup>	Corresponding AC-input Motor & Driver Package	Page with speed vs. torque characteristics
6 leads	8 leads								
<b>PK296-01AA</b>		305	2	4.4	2.2	7.7	7.66	—	B-286
<b>PK296-01BA</b>		2.2					1400×10 <sup>-7</sup>		
<b>PK296-02AA</b>		305	3	3	1	3.5	7.66	—	B-286
<b>PK296-02BA</b>		2.2					1400×10 <sup>-7</sup>		
<b>PK296-03AA</b>	<b>PK296-F4.5A</b>	305	4.5	2	0.48	1.5	7.66	<b>UMK296</b> □ <b>A</b>	B-217
<b>PK296-03BA</b>	<b>PK296-F4.5B</b>	2.2					1400×10 <sup>-7</sup>	<b>UMK296AAT</b>	
<b>PK299-01AA</b>		611	2	6.4	3.2	14	14.8	—	B-286
<b>PK299-01BA</b>		4.4					2700×10 <sup>-7</sup>		
<b>PK299-02AA</b>		611	3	4.2	1.5	6	14.8	—	B-286
<b>PK299-02BA</b>		4.4					2700×10 <sup>-7</sup>		
<b>PK299-03AA</b>	<b>PK299-F4.5A</b>	611	4.5	2.8	0.66	2.5	14.8	<b>UMK299</b> □ <b>A</b>	B-217
<b>PK299-03BA</b>	<b>PK299-F4.5B</b>	4.4					2700×10 <sup>-7</sup>	<b>UMK299AAT</b>	
<b>PK2913-01AA</b>		916	2	7.6	3.8	19.2	21.9	—	B-286
<b>PK2913-01BA</b>		6.6					4000×10 <sup>-7</sup>		
<b>PK2913-02AA</b>	<b>PK2913-F4.0A</b>	916	4	3.8	0.97	4.2	21.9	<b>UMK2913</b> □ <b>A</b>	B-217
<b>PK2913-02BA</b>	<b>PK2913-F4.0B</b>	6.6					4000×10 <sup>-7</sup>	<b>UMK2913AAT</b>	

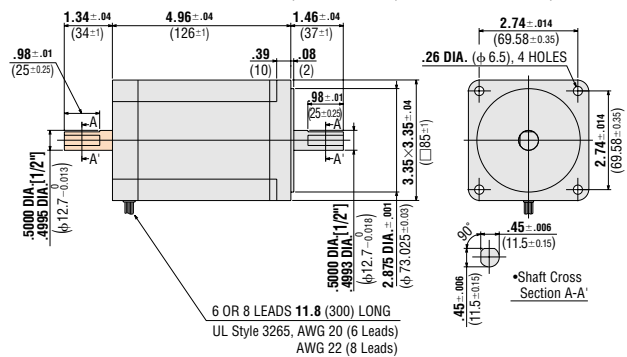
- If you are considering buying both a motor and a driver, we recommend the purchase of one of the AC-input **UMK** series products, which combine a dedicated motor and driver into a single package.
- The motors in the table above cannot be connected to **UMK** series drivers. Consult your local sales office regarding drivers before making a purchase.
- For the speed vs. torque characteristics of the motors in the above table, see the corresponding **UMK** series characteristics. If there is no applicable Motor and driver package, see the speed vs. torque characteristics on page B-286.

### DIMENSIONS Scale 1/5, unit = inch (mm)

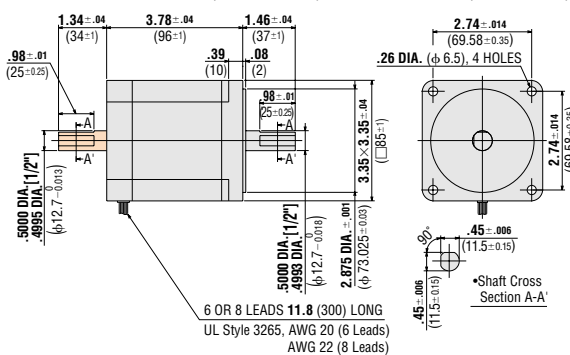
- **PK296-0**□**AA, -F4.5A** (Single shaft) Weight 3.75 lb. (Mass 1.7kg)
- **PK296-0**□**BA, -F4.5B** (Double shaft) Weight 3.75 lb. (Mass 1.7kg)



- **PK2913-0**□**AA, -F4.0A** (Single shaft) Weight 8.38 lb. (Mass 3.8kg)
- **PK2913-0**□**BA, -F4.0B** (Double shaft) Weight 8.38 lb. (Mass 3.8kg)



- **PK299-0**□**AA, -F4.5A** (Single shaft) Weight 6.18 lb. (Mass 2.8kg)
- **PK299-0**□**BA, -F4.5B** (Double shaft) Weight 6.18 lb. (Mass 2.8kg)



- These external appearance drawings are for double shaft models. For a single shaft, ignore the colored areas.

See page B-36 for information on motor installation.



## 2-Phase Stepping Motors SH Geared Type

# PK243-SG

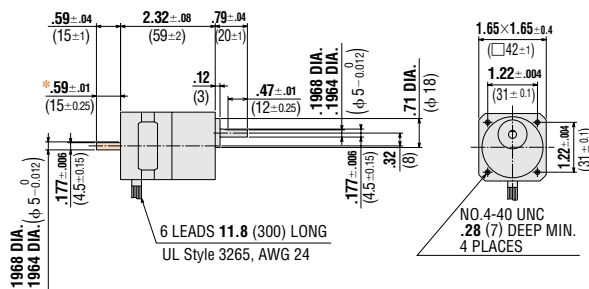
### ■ SPECIFICATIONS (at 2-phase excitation)

Model (Single Shaft) (Double Shaft)	Holding Torque lb-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J oz-in <sup>2</sup> kg·m <sup>2</sup>	Basic Step Angle	Gear Ratio	Permissible Speed Range Hz (Gear Output Shaft Speed r/min) Full Step Half Step	Corresponding DC-input Motor & Driver Package
<b>PK243A1A-SG3.6</b> <b>PK243B1A-SG3.6</b>	1.73 0.2	0.95	4	4.2	2.5	0.192 35×10 <sup>-7</sup>	0.5°	3.6:1	0~6000 (0~500)    0~12000 (0~500)	<b>CSK243□TA-SG3.6</b> B-250
<b>PK243A1A-SG7.2</b> <b>PK243B1A-SG7.2</b>	3.47 0.4	0.95	4	4.2	2.5	0.192 35×10 <sup>-7</sup>	0.25°	7.2:1	0~6000 (0~250)    0~12000 (0~250)	<b>CSK243□TA-SG7.2</b> B-250
<b>PK243A1A-SG9</b> <b>PK243B1A-SG9</b>	4.33 0.5	0.95	4	4.2	2.5	0.192 35×10 <sup>-7</sup>	0.2°	9:1	0~6000 (0~200)    0~12000 (0~200)	<b>CSK243□TA-SG9</b> B-250
<b>PK243A1A-SG10</b> <b>PK243B1A-SG10</b>	4.86 0.56	0.95	4	4.2	2.5	0.192 35×10 <sup>-7</sup>	0.18°	10:1	0~6000 (0~180)    0~12000 (0~180)	<b>CSK243□TA-SG10</b> B-250
<b>PK243A1A-SG18</b> <b>PK243B1A-SG18</b>	6.94 0.8	0.95	4	4.2	2.5	0.192 35×10 <sup>-7</sup>	0.1°	18:1	0~6000 (0~100)    0~12000 (0~100)	<b>CSK243□TA-SG18</b> B-250
<b>PK243A1A-SG36</b> <b>PK243B1A-SG36</b>	6.94 0.8	0.95	4	4.2	2.5	0.192 35×10 <sup>-7</sup>	0.05°	36:1	0~6000 (0~50)    0~12000 (0~50)	<b>CSK243□TA-SG36</b> B-250
<b>PK243A2A-SG3.6</b> <b>PK243B2A-SG3.6</b>	1.73 0.2	0.4	9.6	24	15	0.192 35×10 <sup>-7</sup>	0.5°	3.6:1	0~6000 (0~500)    0~12000 (0~500)	B-287
<b>PK243A2A-SG7.2</b> <b>PK243B2A-SG7.2</b>	3.47 0.4	0.4	9.6	24	15	0.192 35×10 <sup>-7</sup>	0.25°	7.2:1	0~6000 (0~250)    0~12000 (0~250)	B-287
<b>PK243A2A-SG9</b> <b>PK243B2A-SG9</b>	4.33 0.5	0.4	9.6	24	15	0.192 35×10 <sup>-7</sup>	0.2°	9:1	0~6000 (0~200)    0~12000 (0~200)	B-287
<b>PK243A2A-SG10</b> <b>PK243B2A-SG10</b>	4.86 0.56	0.4	9.6	24	15	0.192 35×10 <sup>-7</sup>	0.18°	10:1	0~6000 (0~180)    0~12000 (0~180)	B-287
<b>PK243A2A-SG18</b> <b>PK243B2A-SG18</b>	6.94 0.8	0.4	9.6	24	15	0.192 35×10 <sup>-7</sup>	0.1°	18:1	0~6000 (0~100)    0~12000 (0~100)	B-287
<b>PK243A2A-SG36</b> <b>PK243B2A-SG36</b>	6.94 0.8	0.4	9.6	24	15	0.192 35×10 <sup>-7</sup>	0.05°	36:1	0~6000 (0~50)    0~12000 (0~50)	B-287

- If you are considering buying both a motor and a driver, we recommend the purchase of one of the DC-input **CSK** Series products, which combine a dedicated motor and driver into a single package.
- The motors in the table above cannot be connected to **CSK** series drivers. Consult your local sales office regarding drivers before making a purchase.
- For the speed vs. torque characteristics of the motors in the above table, see the corresponding **CSK** series characteristics. If there is no applicable motor and driver package, see the speed vs. torque characteristics on page B-287.

### ■ DIMENSIONS Scale 1/5, unit = inch (mm)

- **PK243A□A-SG□** (Single shaft) Weight 0.78 lb. (Mass 0.35kg)
- **PK243B□A-SG□** (Double shaft) Weight 0.78 lb. (Mass 0.35kg)



- Screws (included)  
4-No.4-40 UNC length .39 (10)

\*  $.59 \pm 0.10$  (15±0.25) indicates the length of milling on motor shaft.

- This external appearance drawing is for double shaft model.  
For a single shaft, ignore the colored area.

See page B-36 for information on motor installation.

## 2-Phase Stepping Motors SH Geared Type

# PK264-SG



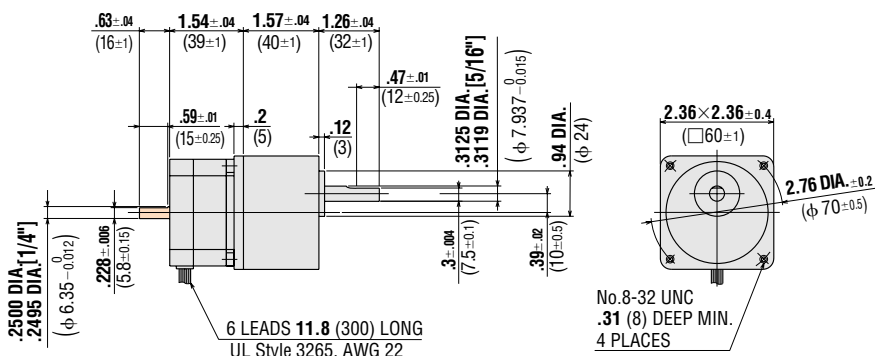
### ■ SPECIFICATIONS (at 2-phase excitation)

Model (Single Shaft) (Double Shaft)	Holding Torque lb-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J oz-in <sup>2</sup> kg·m <sup>2</sup>	Basic Step Angle	Gear Ratio	Permissible Speed Range Hz (Gear Output Shaft Speed r/min)		Corresponding DC-input Motor & Driver Package
									Full Step	Half Step	
<b>PK264A1A-SG3.6</b>	8.67	1	5.7	5.7	5.4	0.66	0.5°	3.6:1	0~6000 (0~500)	0~12000 (0~500)	B-287
<b>PK264B1A-SG3.6</b>	1					120×10 <sup>-7</sup>					
<b>PK264A1A-SG7.2</b>	17.3	1	5.7	5.7	5.4	0.66	0.25°	7.2:1	0~6000 (0~250)	0~12000 (0~250)	B-287
<b>PK264B1A-SG7.2</b>	2					120×10 <sup>-7</sup>					
<b>PK264A1A-SG9</b>	21.6	1	5.7	5.7	5.4	0.66	0.2°	9:1	0~6000 (0~200)	0~12000 (0~200)	B-287
<b>PK264B1A-SG9</b>	2.5					120×10 <sup>-7</sup>					
<b>PK264A1A-SG10</b>	23.4	1	5.7	5.7	5.4	0.66	0.18°	10:1	0~6000 (0~180)	0~12000 (0~180)	B-287
<b>PK264B1A-SG10</b>	2.7					120×10 <sup>-7</sup>					
<b>PK264A1A-SG18</b>	26	1	5.7	5.7	5.4	0.66	0.1°	18:1	0~6000 (0~100)	0~12000 (0~100)	B-287
<b>PK264B1A-SG18</b>	3					120×10 <sup>-7</sup>					
<b>PK264A1A-SG36</b>	34.7	1	5.7	5.7	5.4	0.66	0.05°	36:1	0~6000 (0~50)	0~12000 (0~50)	B-287
<b>PK264B1A-SG36</b>	4					120×10 <sup>-7</sup>					
<b>PK264A2A-SG3.6</b>	8.67	2	2.8	1.4	1.4	0.66	0.5°	3.6:1	0~6000 (0~500)	0~12000 (0~500)	<b>CSK264□TA-SG3.6</b> B-251
<b>PK264B2A-SG3.6</b>	1					120×10 <sup>-7</sup>					
<b>PK264A2A-SG7.2</b>	17.3	2	2.8	1.4	1.4	0.66	0.25°	7.2:1	0~6000 (0~250)	0~12000 (0~250)	<b>CSK264□TA-SG7.2</b> B-251
<b>PK264B2A-SG7.2</b>	2					120×10 <sup>-7</sup>					
<b>PK264A2A-SG9</b>	21.6	2	2.8	1.4	1.4	0.66	0.2°	9:1	0~6000 (0~200)	0~12000 (0~200)	<b>CSK264□TA-SG9</b> B-251
<b>PK264B2A-SG9</b>	2.5					120×10 <sup>-7</sup>					
<b>PK264A2A-SG10</b>	23.4	2	2.8	1.4	1.4	0.66	0.18°	10:1	0~6000 (0~180)	0~12000 (0~180)	<b>CSK264□TA-SG10</b> B-251
<b>PK264B2A-SG10</b>	2.7					120×10 <sup>-7</sup>					
<b>PK264A2A-SG18</b>	26	2	2.8	1.4	1.4	0.66	0.1°	18:1	0~6000 (0~100)	0~12000 (0~100)	<b>CSK264□TA-SG18</b> B-251
<b>PK264B2A-SG18</b>	3					120×10 <sup>-7</sup>					
<b>PK264A2A-SG36</b>	34.7	2	2.8	1.4	1.4	0.66	0.05°	36:1	0~6000 (0~50)	0~12000 (0~50)	<b>CSK264□TA-SG36</b> B-251
<b>PK264B2A-SG36</b>	4					120×10 <sup>-7</sup>					

- If you are considering buying both a motor and a driver, we recommend the purchase of one of the DC-input **CSK** Series products, which combine a dedicated motor and driver into a single package.
- The motors in the table above cannot be connected to **CSK** series drivers. Consult your local sales office regarding drivers before making a purchase.
- For the speed vs. torque characteristics of the motors in the above table, see the corresponding **CSK** series characteristics. If there is no applicable motor and driver package, see the speed vs. torque characteristics on page B-287.

### ■ DIMENSIONS Scale 1/4, unit = inch (mm)

- **PK264A□A-SG□** (Single shaft) Weight 1.66 lb. (Mass 0.75kg)
- **PK264B□A-SG□** (Double shaft) Weight 1.66 lb. (Mass 0.75kg)



- Screws (included)  
4-No. 8-32 UNC length .59 (15)

● This external appearance drawing is for double shaft model. For a single shaft, ignore the colored area.

See page B-36 for information on motor installation.

## 2-Phase Stepping Motors SH Geared Type

# PK296-SG

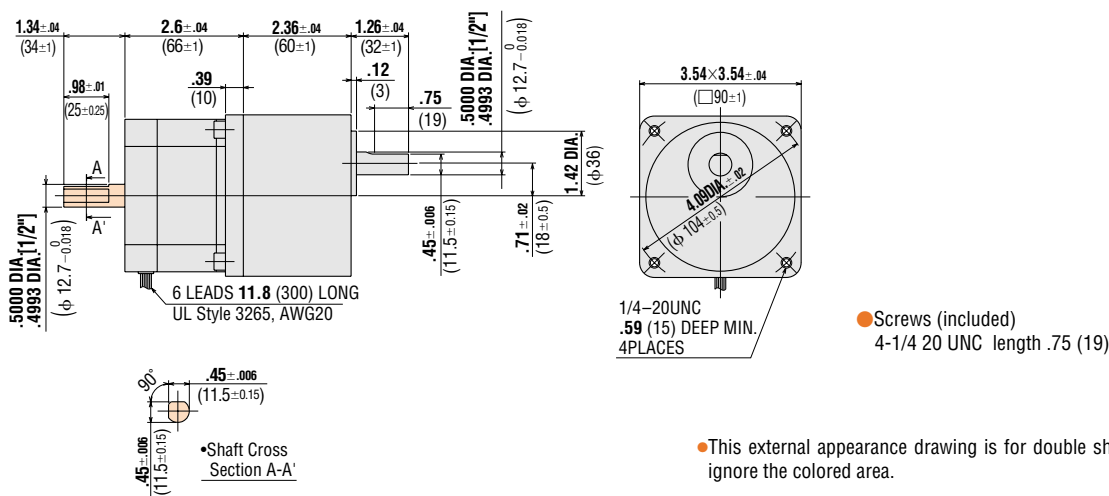


### ■ Specifications (at 2-phase excitation)

Model (Single Shaft) (Double Shaft)	Holding Torque lb-in N·m	Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia oz-in <sup>2</sup> kg·m <sup>2</sup>	Basic Step Angle	Gear Ratio	Permissible Speed Range Hz (Gear Output Shaft Speed r/min) Full Step Half Step		Page with speed vs. torque characteristics
<b>PK296A1A-SG3.6</b>	21.6	1.5	3.3	2.2	7.7	7.7	0.5°	3.6:1	0~6000 (0~500)	0~12000 (0~500)	B-287
<b>PK296B1A-SG3.6</b>	2.5					1400×10 <sup>-7</sup>					
<b>PK296A1A-SG7.2</b>	43.3	1.5	3.3	2.2	7.7	7.7	0.25°	7.2:1	0~6000 (0~250)	0~12000 (0~250)	B-287
<b>PK296B1A-SG7.2</b>	5					1400×10 <sup>-7</sup>					
<b>PK296A1A-SG9</b>	54.6	1.5	3.3	2.2	7.7	7.7	0.2°	9:1	0~6000 (0~200)	0~12000 (0~200)	B-287
<b>PK296B1A-SG9</b>	6.3					1400×10 <sup>-7</sup>					
<b>PK296A1A-SG10</b>	60.7	1.5	3.3	2.2	7.7	7.7	0.18°	10:1	0~6000 (0~180)	0~12000 (0~180)	B-287
<b>PK296B1A-SG10</b>	7					1400×10 <sup>-7</sup>					
<b>PK296A1A-SG18</b>	78.1	1.5	3.3	2.2	7.7	7.7	0.1°	18:1	0~6000 (0~100)	0~12000 (0~100)	B-287
<b>PK296B1A-SG18</b>	9					1400×10 <sup>-7</sup>					
<b>PK296A1A-SG36</b>	104	1.5	3.3	2.2	7.7	7.7	0.05°	36:1	0~6000 (0~50)	0~12000 (0~50)	B-287
<b>PK296B1A-SG36</b>	12					1400×10 <sup>-7</sup>					
<b>PK296A2A-SG3.6</b>	21.6	3	1.4	0.48	3.5	7.7	0.5°	3.6:1	0~6000 (0~500)	0~12000 (0~500)	B-287
<b>PK296B2A-SG3.6</b>	2.5					1400×10 <sup>-7</sup>					
<b>PK296A2A-SG7.2</b>	43.3	3	1.4	0.48	3.5	7.7	0.25°	7.2:1	0~6000 (0~250)	0~12000 (0~250)	B-287
<b>PK296B2A-SG7.2</b>	5					1400×10 <sup>-7</sup>					
<b>PK296A2A-SG9</b>	54.6	3	1.4	0.48	3.5	7.7	0.2°	9:1	0~6000 (0~200)	0~12000 (0~200)	B-287
<b>PK296B2A-SG9</b>	6.3					1400×10 <sup>-7</sup>					
<b>PK296A2A-SG10</b>	60.7	3	1.4	0.48	3.5	7.7	0.18°	10:1	0~6000 (0~180)	0~12000 (0~180)	B-287
<b>PK296B2A-SG10</b>	7					1400×10 <sup>-7</sup>					
<b>PK296A2A-SG18</b>	78.1	3	1.4	0.48	3.5	7.7	0.1°	18:1	0~6000 (0~100)	0~12000 (0~100)	B-287
<b>PK296B2A-SG18</b>	9					1400×10 <sup>-7</sup>					
<b>PK296A2A-SG36</b>	104	3	1.4	0.48	3.5	7.7	0.05°	36:1	0~6000 (0~50)	0~12000 (0~50)	B-287
<b>PK296B2A-SG36</b>	12					1400×10 <sup>-7</sup>					

### ■ DIMENSIONS Scale 1/4, unit = inch (mm)

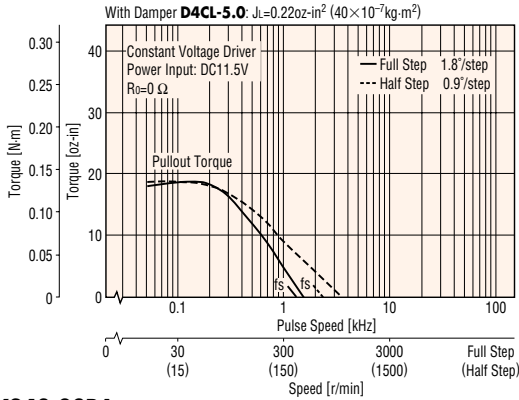
- **PK296A**□**A-SG**□ (Single shaft) Weight 6.18 lb. (Mass 2.8kg)
- **PK296B**□**A-SG**□ (Double shaft) Weight 6.18 lb. (Mass 2.8kg)



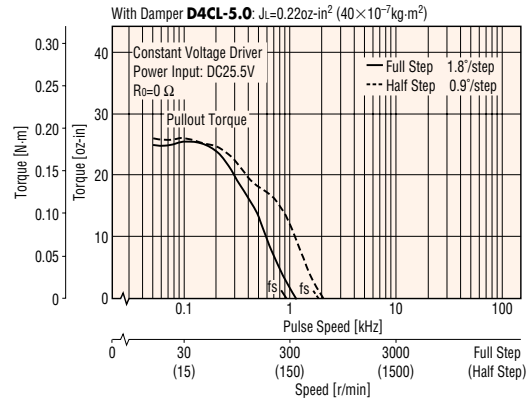
# SPEED vs. TORQUE CHARACTERISTICS

## Standard Type

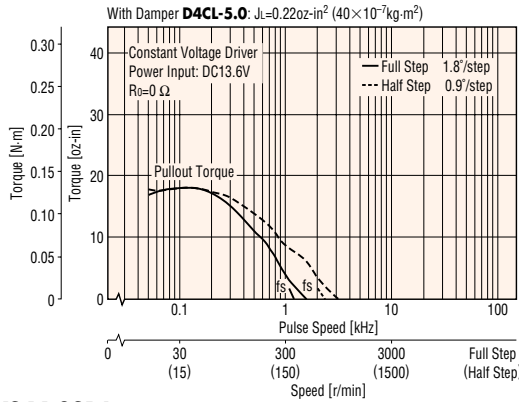
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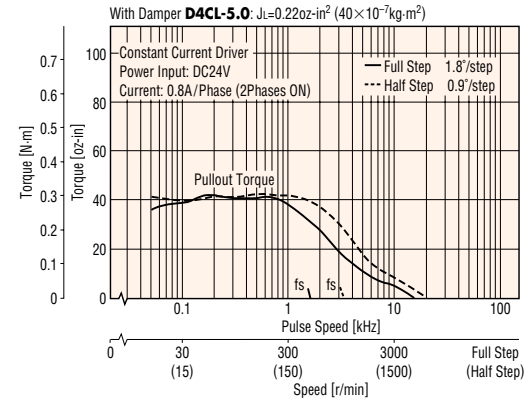
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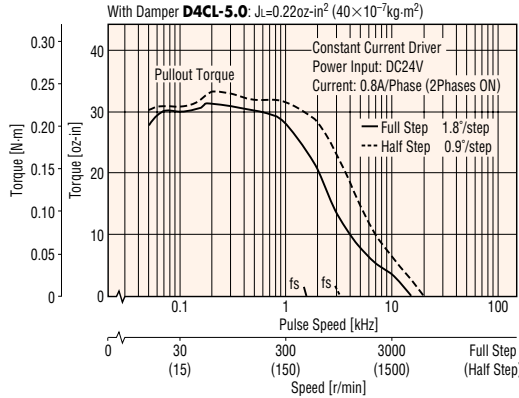
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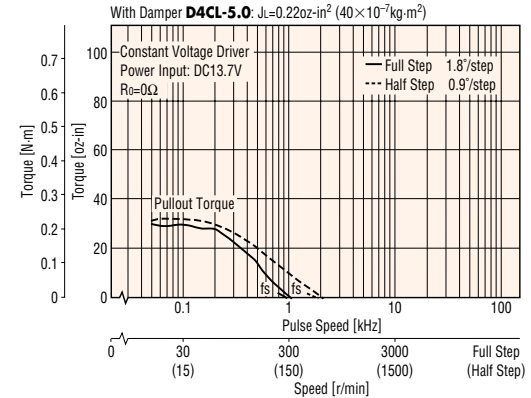
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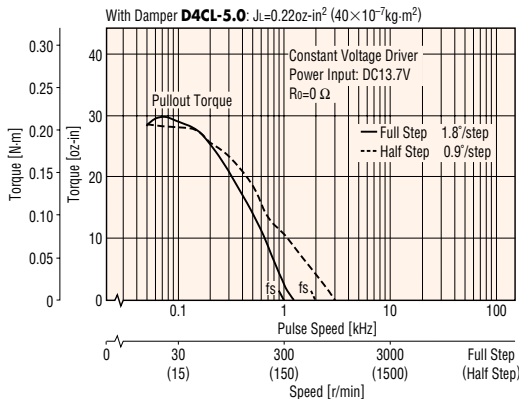
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**PK245-03BA**



**PK244-03BA**

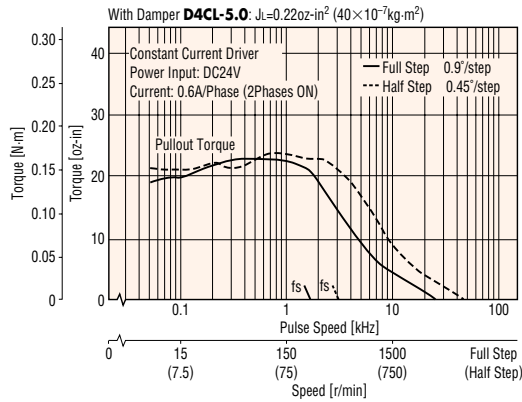


**Note** : The motor may become hot under some drive conditions. Keep the motor case temperature to 212°F (100°C) or less.

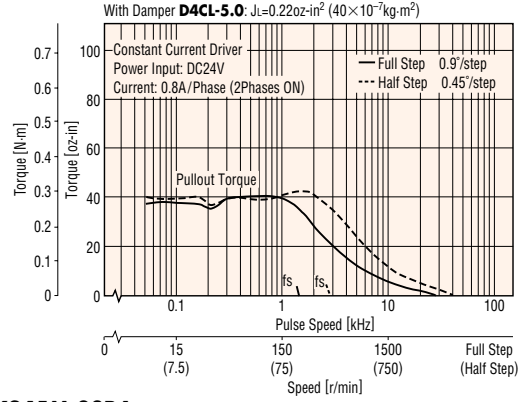


● High-Resolution Type

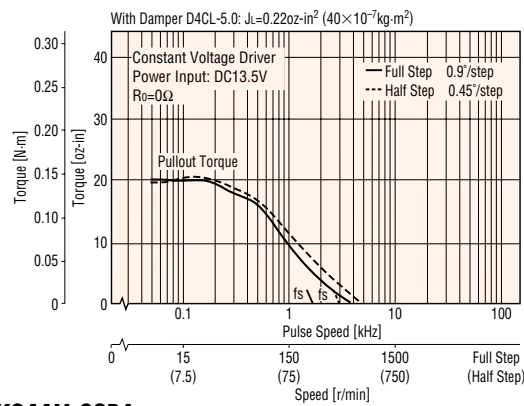
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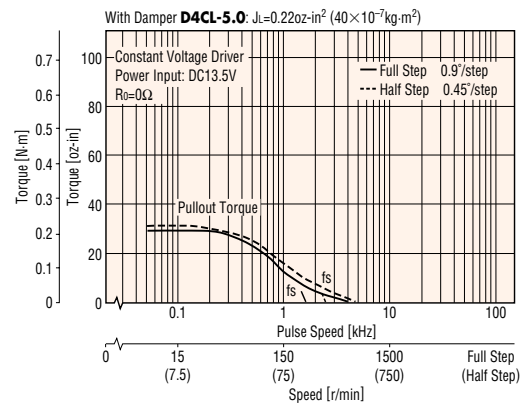
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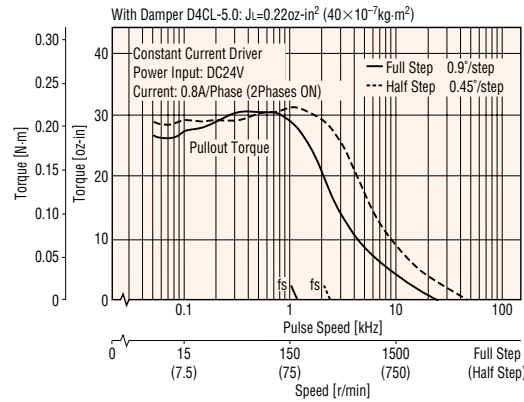
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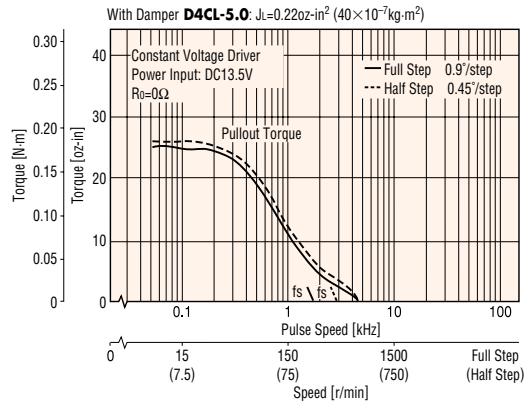
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**PK244M-02BA**



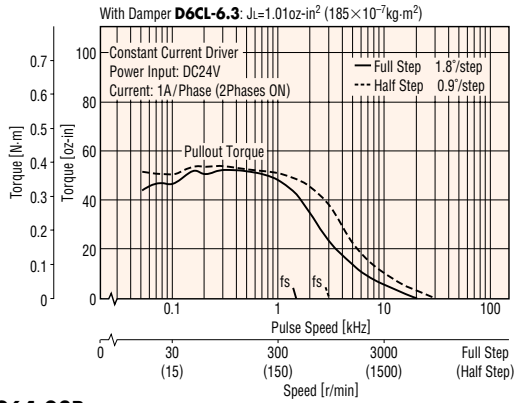
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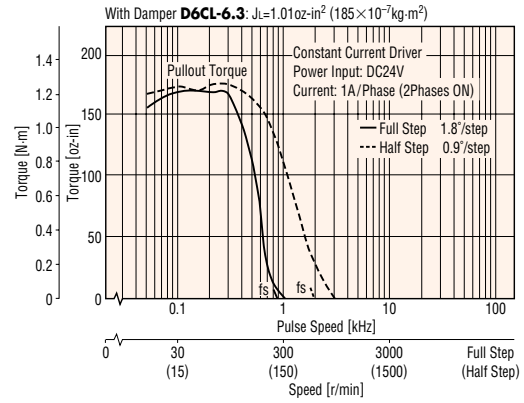
**Note :** The motor may become hot under some drive conditions. Keep the motor case temperature to 212°F (100°C) or less.

● Standard Type

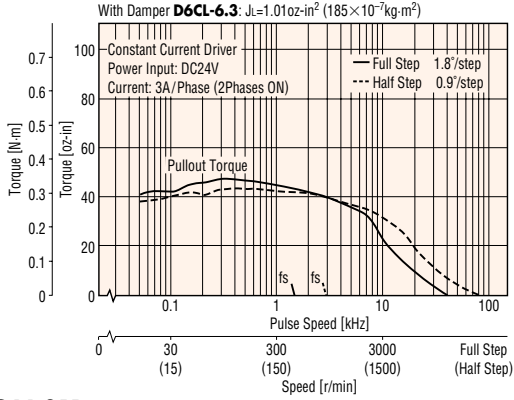
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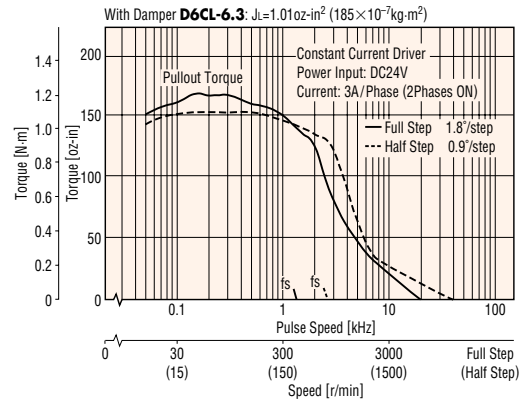
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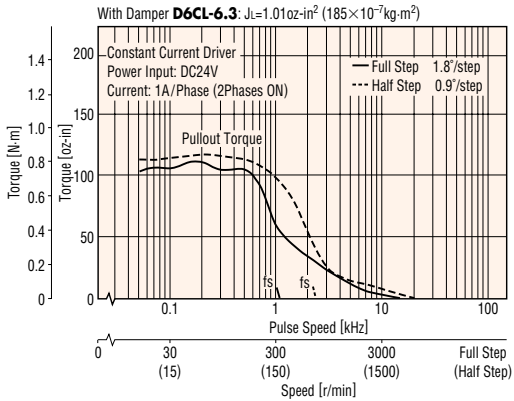
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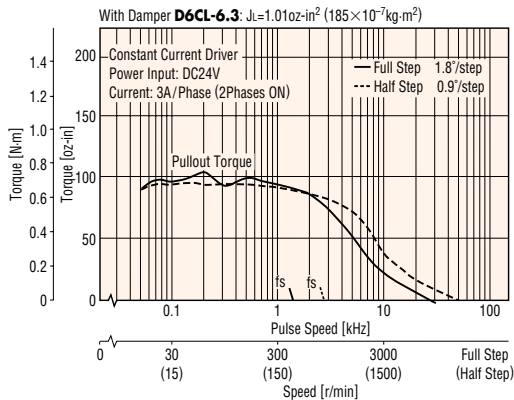
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**PK266-01B**



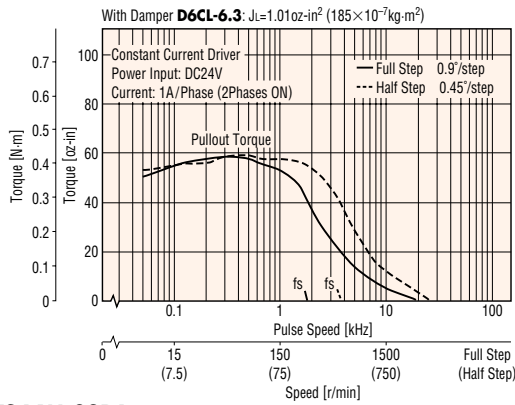
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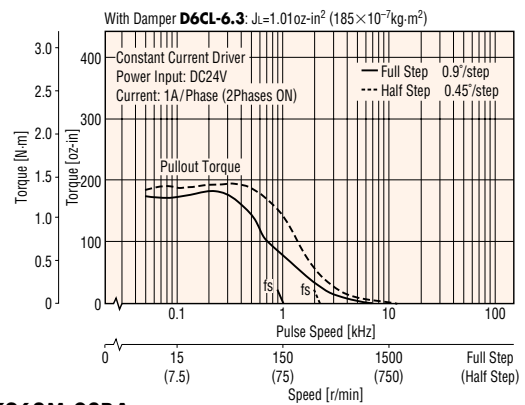
**Note** : The motor may become hot under some drive conditions. Keep the motor case temperature to 212°F (100°C) or less.

● High-Resolution Type

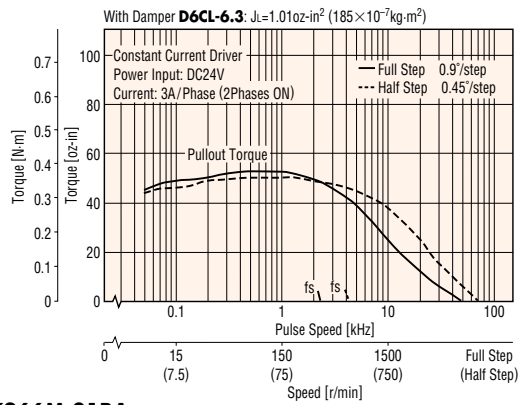
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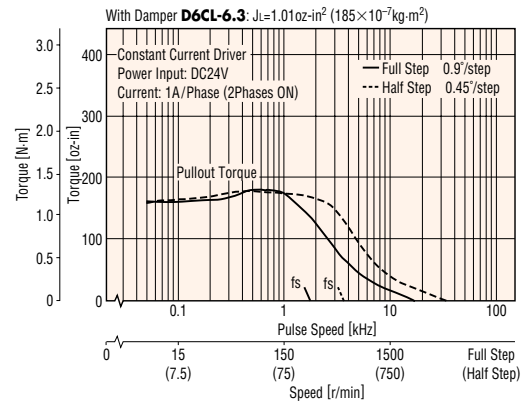
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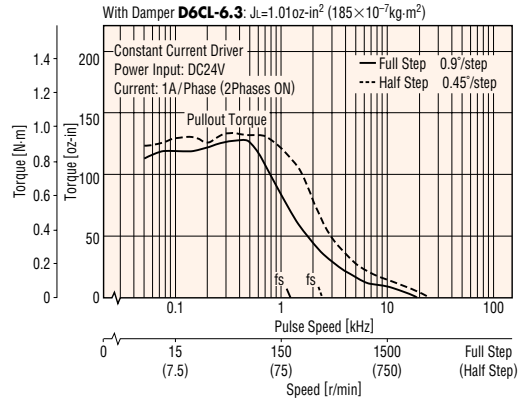
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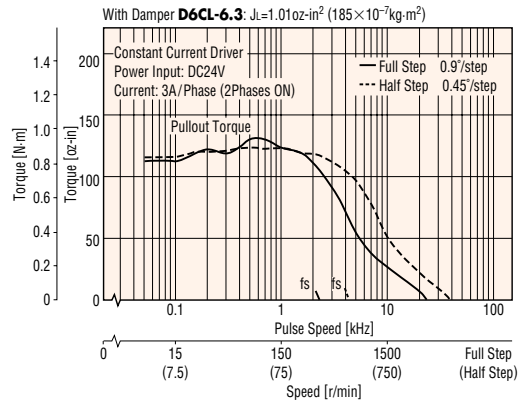
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**PK266M-01BA**



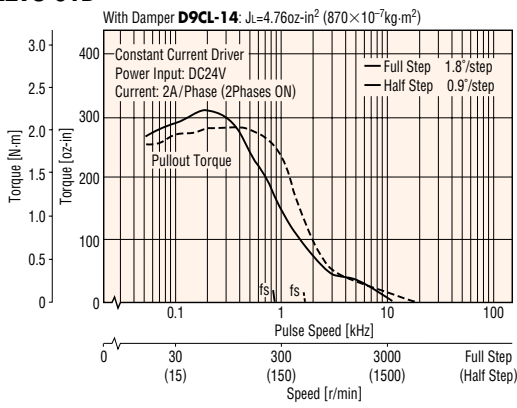
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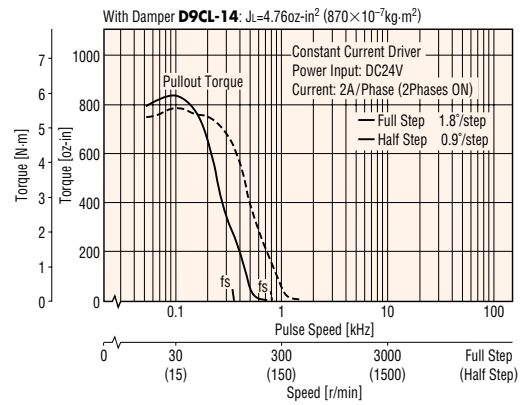
**Note :** The motor may become hot under some drive conditions. Keep the motor case temperature to 212°F (100°C) or less.

● Standard Type

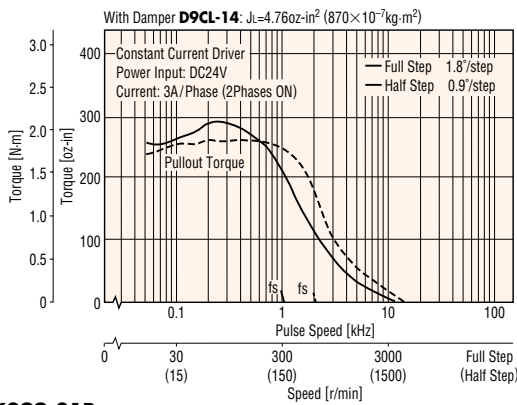
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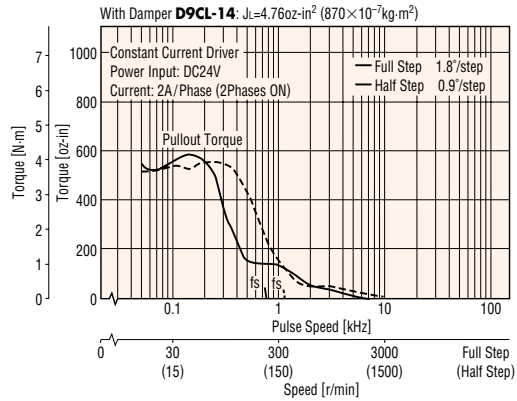
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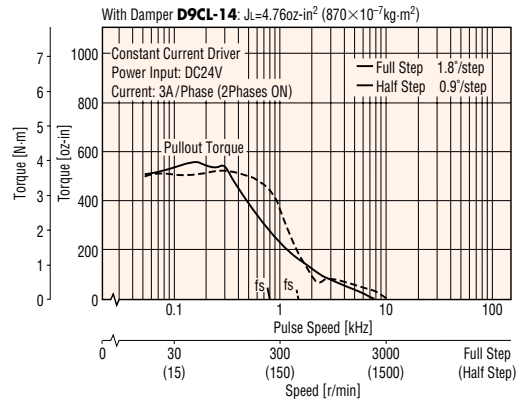
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**PK299-01B**



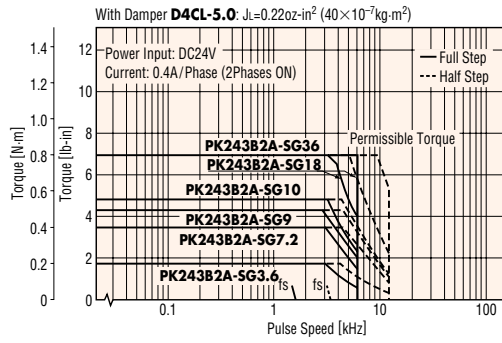
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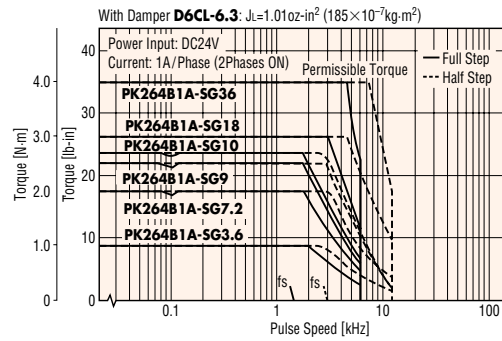
**Note** : The motor may become hot under some drive conditions. Keep the motor case temperature to 212°F (100°C) or less.

● SH Geared Type

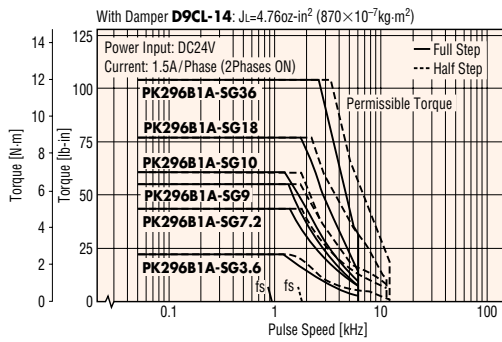
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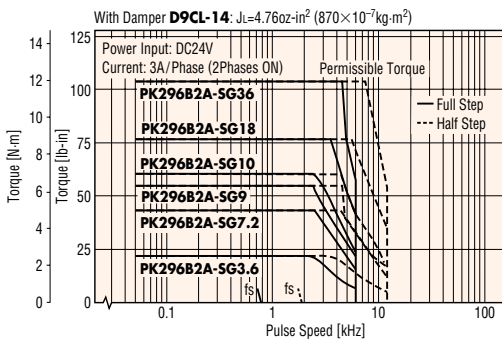
**PK264B1A-SG** □



**PK296B1A-SG** □



**PK296B2A-SG** □



**Note** : The motor may become hot under some drive conditions. Keep the motor case temperature to 212°F (100°C) or less.

