

3.35 in. (85 mm)

Step Angle 1.8°

PK Series Standard Type



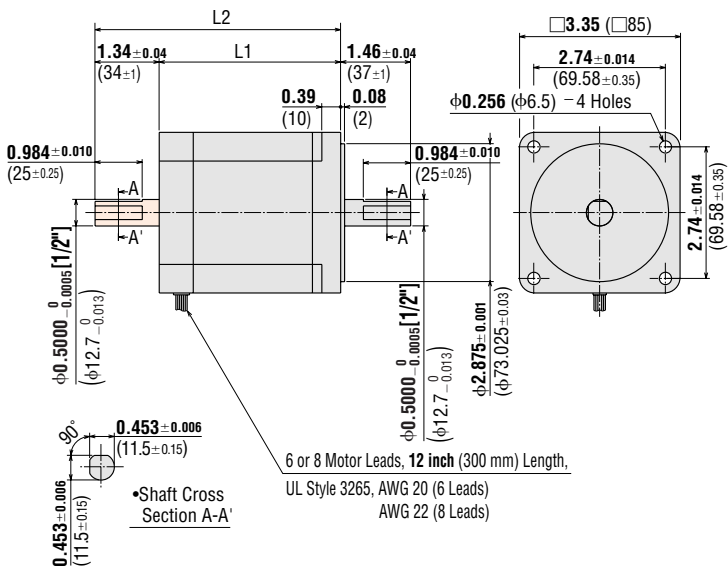
Specifications

Model	Connection Type	Holding Torque		Current per Phase	Voltage	Resistance per Phase	Inductance	Rotor Inertia J		Lead Wires
		oz-in	N·m					oz-in ²	kg·m ²	
PK296-01AA PK296-01BA	Bipolar (Series)	440	3.1	1.4	6.2	4.4	30.8	7.7	1400×10 ⁻⁷	6
	Unipolar	310	2.2	2	4.4	2.2	7.7			
PK296-02AA PK296-02BA	Bipolar (Series)	440	3.1	2.1	4.2	2	14	7.7	1400×10 ⁻⁷	6
	Unipolar	310	2.2	3	3	1	3.5			
PK296-03AA PK296-03BA	Bipolar (Series)	440	3.1	3.18	2.8	0.96	6	7.7	1400×10 ⁻⁷	6
	Unipolar	310	2.2	4.5	2	0.48	1.5			
PK296-F4.5A PK296-F4.5B	Bipolar (Parallel)	440	3.1	6.3	1.4	0.24	1.5	7.7	1400×10 ⁻⁷	8
	Bipolar (Series)	440	3.1	3.18	2.8	0.96	6			
	Unipolar	310	2.2	4.5	2	0.48	1.5			
PK299-01AA PK299-01BA	Bipolar (Series)	880	6.2	1.4	9	6.4	56	14.8	2700×10 ⁻⁷	6
	Unipolar	620	4.4	2	6.4	3.2	14			
PK299-02AA PK299-02BA	Bipolar (Series)	880	6.2	2.1	6	3	24	14.8	2700×10 ⁻⁷	6
	Unipolar	620	4.4	3	4.2	1.5	6			
PK299-03AA PK299-03BA	Bipolar (Series)	880	6.2	3.18	3.9	1.32	10	14.8	2700×10 ⁻⁷	6
	Unipolar	620	4.4	4.5	2.8	0.66	2.5			
PK299-F4.5A PK299-F4.5B	Bipolar (Parallel)	880	6.2	6.3	1.9	0.33	2.5	14.8	2700×10 ⁻⁷	8
	Bipolar (Series)	880	6.2	3.18	3.9	1.32	10			
	Unipolar	620	4.4	4.5	2.8	0.66	2.5			
PK2913-01AA PK2913-01BA	Bipolar (Series)	1320	9.3	1.4	10	7.6	76.8	22	4000×10 ⁻⁷	6
	Unipolar	930	6.6	2	7.6	3.8	19.2			
PK2913-02AA PK2913-02BA	Bipolar (Series)	1320	9.3	2.8	5.3	1.94	16.8	22	4000×10 ⁻⁷	6
	Unipolar	930	6.6	4	3.8	0.97	4.2			
PK2913-F4.0A PK2913-F4.0B	Bipolar (Parallel)	1320	9.3	5.6	2.6	0.49	4.2	22	4000×10 ⁻⁷	8
	Bipolar (Series)	1320	9.3	2.8	5.3	1.94	16.8			
	Unipolar	930	6.6	4	3.8	0.97	4.2			

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Motor Wiring Diagrams → Page C-189

Dimensions Scale 1/4, Unit = inch (mm)



Model	L1 inch (mm)	L2 inch (mm)	Weight lb. (kg)	DXF
PK296-0□AA PK296-F4.5A	2.60 (66)	—	3.7 (1.7)	B122U
PK296-0□BA PK296-F4.5B		3.94 (100)		
PK299-0□AA PK299-F4.5A	3.78 (96)	—	6.2 (2.8)	B123U
PK299-0□BA PK299-F4.5B		5.12 (130)		
PK2913-0□AA PK2913-F4.0A	4.96 (126)	—	8.4 (3.8)	B124U
PK2913-0□BA PK2913-F4.0B		6.30 (160)		

• Enter the winding specification in the box (□) within the model name.

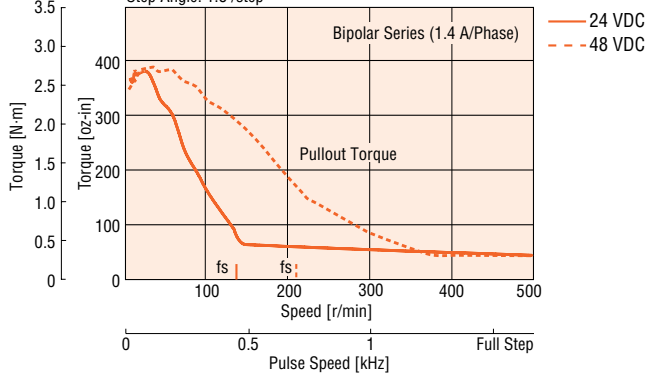
• These dimensions are for double shaft models. For single shaft models, ignore the shaded area.

Speed-Torque Characteristics

How to Read Speed-Torque Characteristics → Page C-10

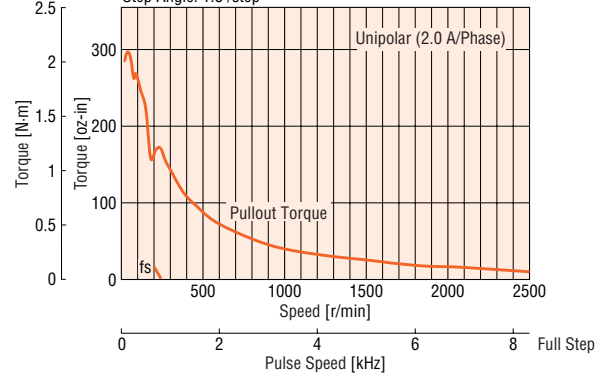
PK296-01BA Bipolar (Series)

Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: 1.8°/step



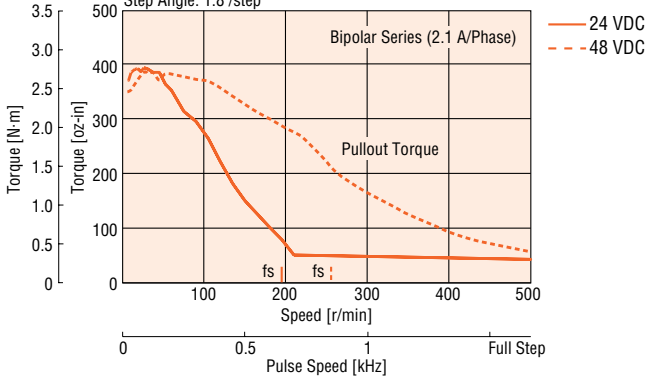
PK296-01BA Unipolar

Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: 1.8°/step



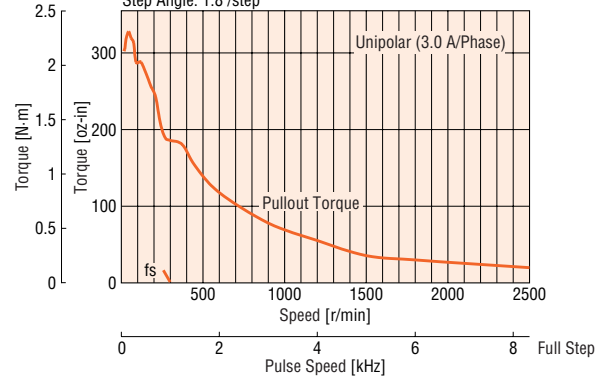
PK296-02BA Bipolar (Series)

Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: 1.8°/step



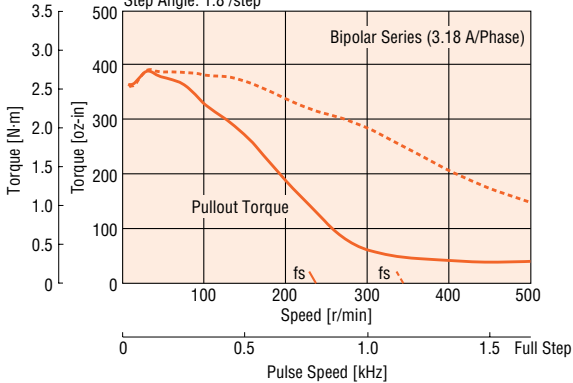
PK296-02BA Unipolar

Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: 1.8°/step



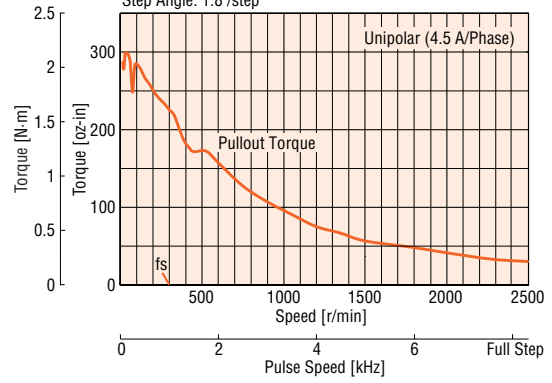
PK296-03BA Bipolar (Series)

Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: 1.8°/step



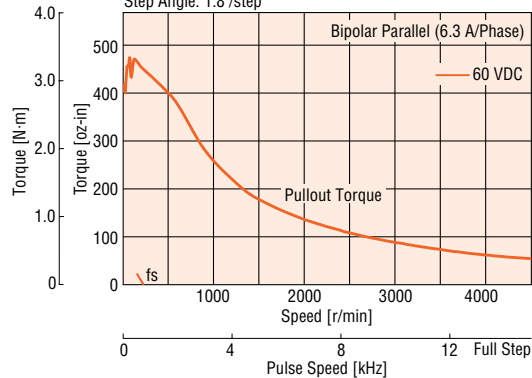
PK296-03BA Unipolar

Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: 1.8°/step



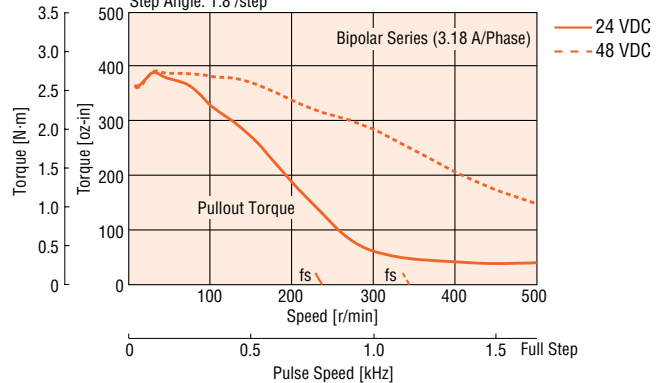
PK296-F4.5B Bipolar (Parallel)

Power Input: 60 VDC Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: 1.8°/step



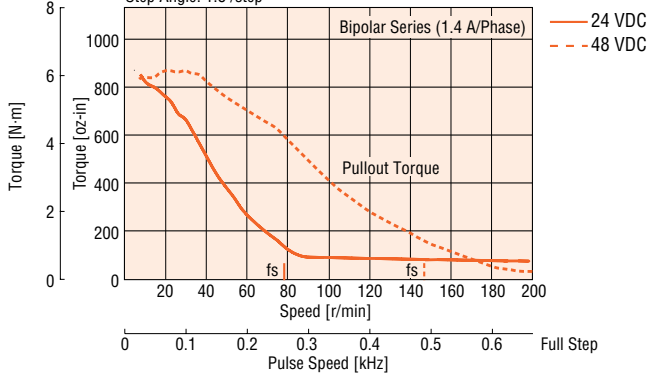
PK296-F4.5B Bipolar (Series)

Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: 1.8°/step

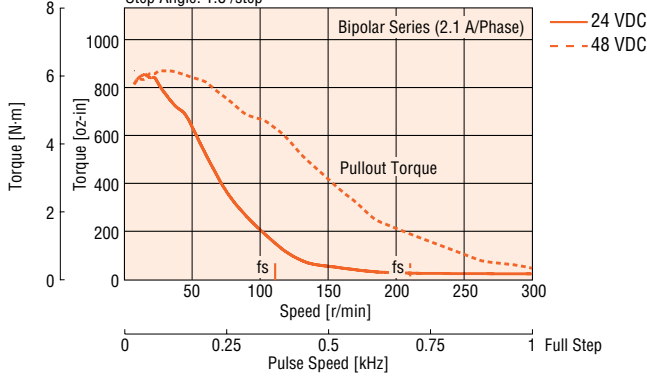


PK299-01BA Bipolar (Series)

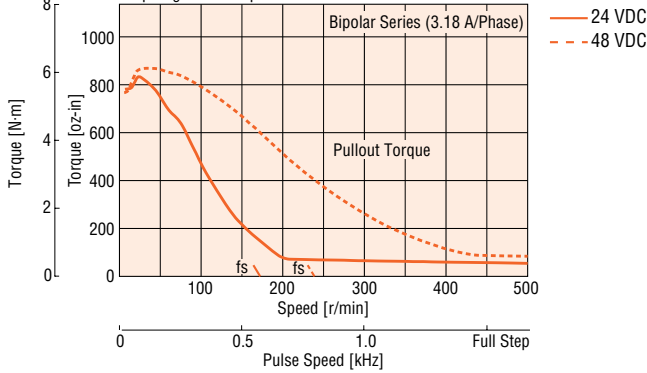
Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2$ ($870 \times 10^{-7} \text{ kg-m}^2$)
Step Angle: $1.8^\circ/\text{step}$

**PK299-02BA Bipolar (Series)**

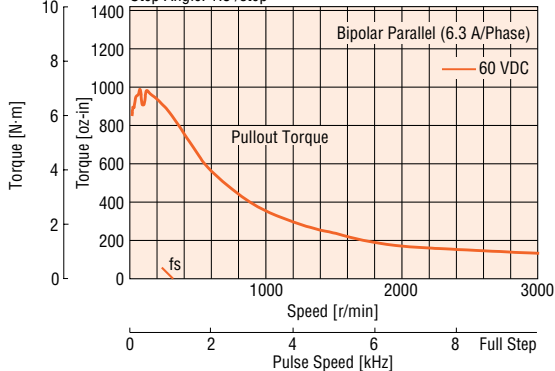
Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2$ ($870 \times 10^{-7} \text{ kg-m}^2$)
Step Angle: $1.8^\circ/\text{step}$

**PK299-03BA Bipolar (Series)**

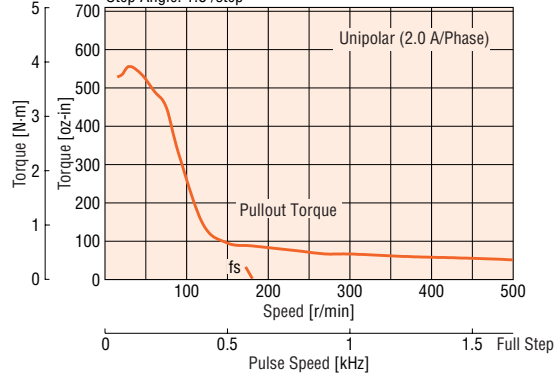
Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2$ ($870 \times 10^{-7} \text{ kg-m}^2$)
Step Angle: $1.8^\circ/\text{step}$

**PK299-F4.5B Bipolar (Parallel)**

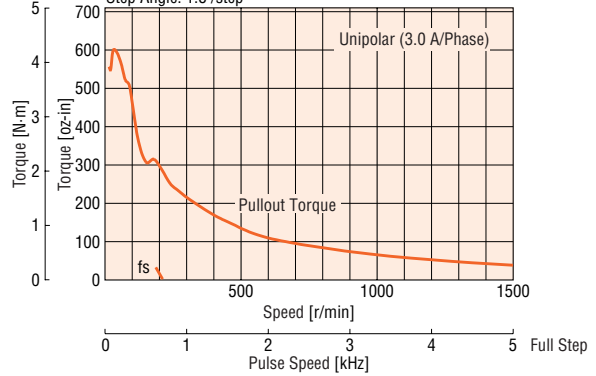
Power Input: 60 VDC Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2$ ($870 \times 10^{-7} \text{ kg-m}^2$)
Step Angle: $1.8^\circ/\text{step}$

**PK299-01BA Unipolar**

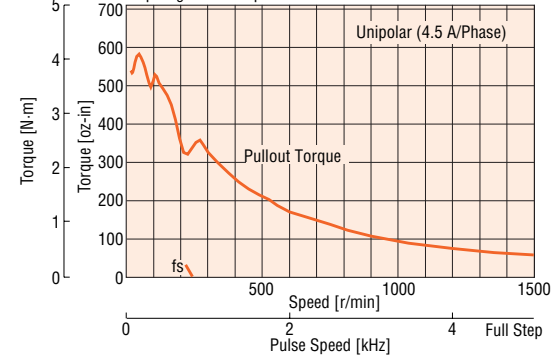
Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2$ ($870 \times 10^{-7} \text{ kg-m}^2$)
Step Angle: $1.8^\circ/\text{step}$

**PK299-02BA Unipolar**

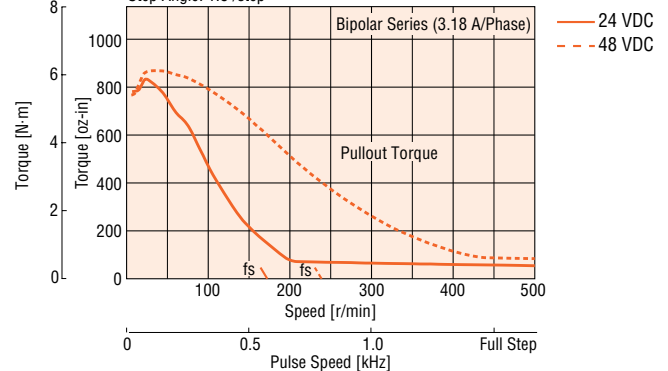
Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2$ ($870 \times 10^{-7} \text{ kg-m}^2$)
Step Angle: $1.8^\circ/\text{step}$

**PK299-03BA Unipolar**

Power Input: 24 VDC Unipolar Constant Current Driver
Load Inertia: $J_L = 4.8 \text{ oz-in}^2$ ($870 \times 10^{-7} \text{ kg-m}^2$)
Step Angle: $1.8^\circ/\text{step}$

**PK299-F4.5B Bipolar (Series)**

Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2$ ($870 \times 10^{-7} \text{ kg-m}^2$)
Step Angle: $1.8^\circ/\text{step}$



□ 1.10 in. (□ 28 mm)

□ 1.38 in. (□ 35 mm)

□ 1.65 in. (□ 42 mm)

□ 2.22 in. (□ 56.4 mm)

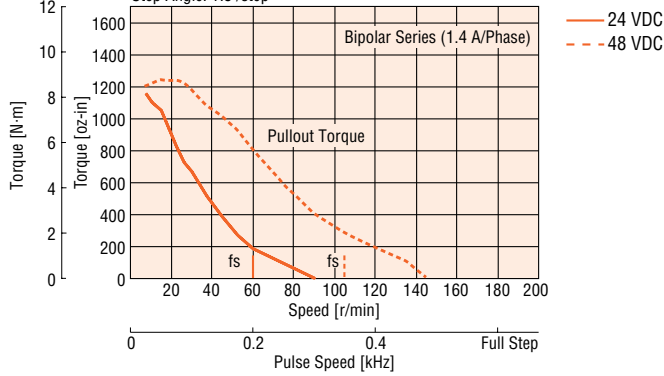
□ 2.36 in. (□ 60 mm)

□ 3.35 in. (□ 85 mm)

□ 3.54 in. (□ 90 mm)

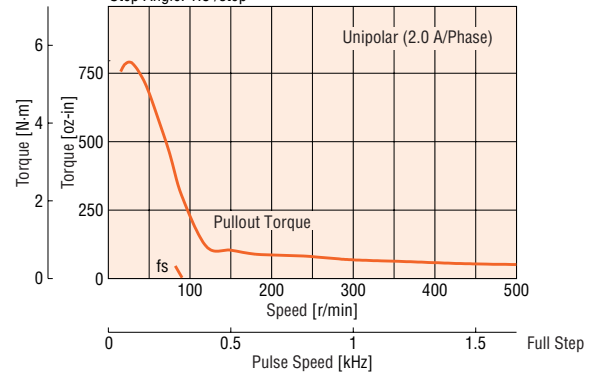
● **PK2913-01BA** Bipolar (Series)

Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: $1.8^\circ/\text{step}$



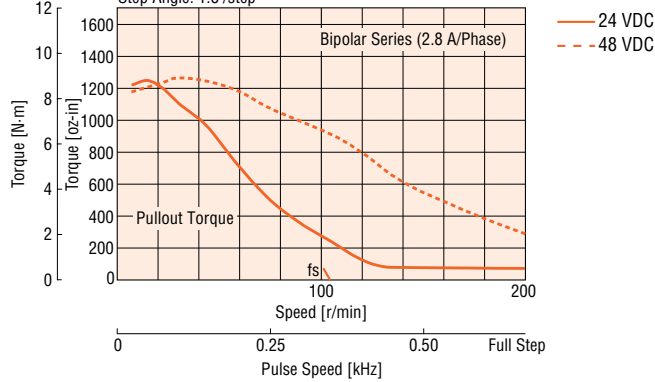
● **PK2913-01BA** Unipolar

Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: $1.8^\circ/\text{step}$



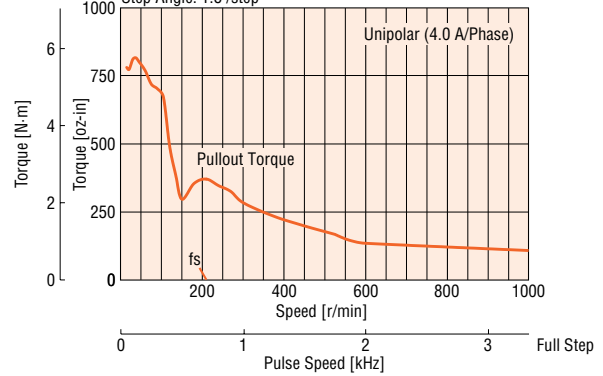
● **PK2913-02BA** Bipolar (Series)

Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: $1.8^\circ/\text{step}$



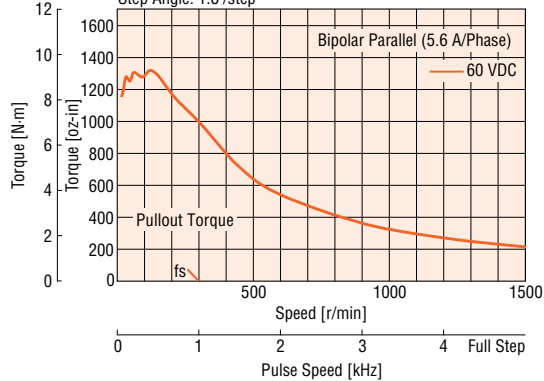
● **PK2913-02BA** Unipolar

Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: $1.8^\circ/\text{step}$



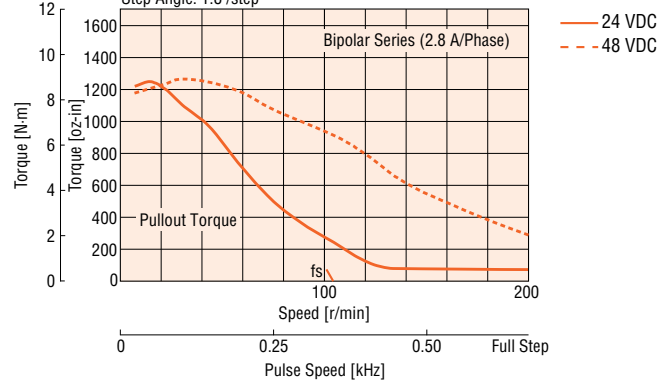
● **PK2913-F4.0B** Bipolar (Parallel)

Power Input: 60 VDC Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: $1.8^\circ/\text{step}$



● **PK2913-F4.0B** Bipolar (Series)

Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$
Step Angle: $1.8^\circ/\text{step}$



□ 3.54 in. (□ 90 mm)

PK Series SH Geared Type



Specifications

Motor Specifications

Model	Connection Type	Current per Phase A/phase	Voltage VDC	Resistance per Phase Ω/phase	Inductance mH/phase	Rotor Inertia J		Lead Wires
						oz-in ²	kg-m ²	
PK296A1A-SG□	Bipolar (Series)	1	4.4	4.4	30.8	7.7	1400×10 ⁻⁷	6
PK296B1A-SG□	Unipolar	1.5	3.3	2.2	7.7			
PK296A2A-SG□	Bipolar (Series)	2.1	2	0.96	6	7.7	1400×10 ⁻⁷	6
PK296B2A-SG□	Unipolar	3	1.4	0.48	1.5			

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Motor Wiring Diagrams → Page C-189

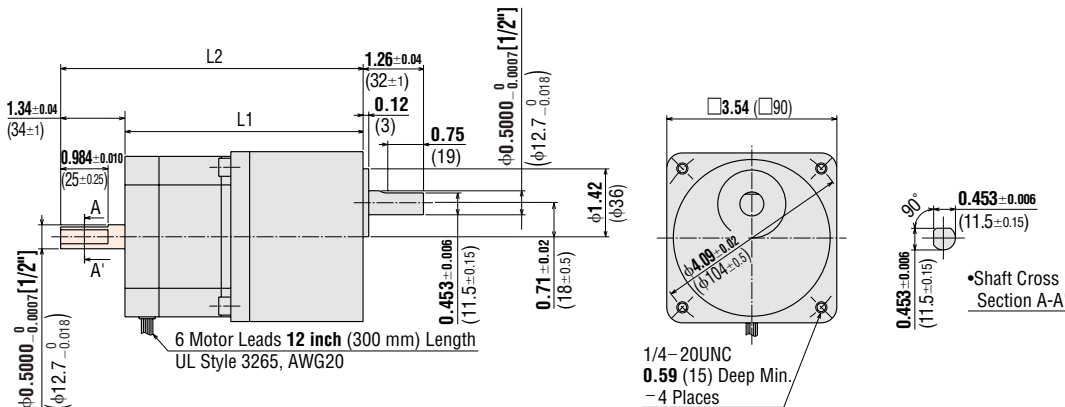
Enter the gear ratio in the box (□) within the model name.

Gearmotor Specifications

Model	Gear Ratio	Holding Torque*		Step Angle	Permissible Speed
		lb-in	N·m		
PK296A1A-SG3.6, PK296A2A-SG3.6 PK296B1A-SG3.6, PK296B2A-SG3.6	3.6:1	22	2.5	0.5°	500
PK296A1A-SG7.2, PK296A2A-SG7.2 PK296B1A-SG7.2, PK296B2A-SG7.2	7.2:1	44	5	0.25°	250
PK296A1A-SG9, PK296A2A-SG9 PK296B1A-SG9, PK296B2A-SG9	9:1	55	6.3	0.2°	200
PK296A1A-SG10, PK296A2A-SG10 PK296B1A-SG10, PK296B2A-SG10	10:1	61	7	0.18°	180
PK296A1A-SG18, PK296A2A-SG18 PK296B1A-SG18, PK296B2A-SG18	18:1	79	9	0.1°	100
PK296A1A-SG36, PK296A2A-SG36 PK296B1A-SG36, PK296B2A-SG36	36:1	106	12	0.05°	50

* Holding torque is the same regardless of the connection type, due to the permissible torque limit of the gearhead.

Dimensions Scale 1/4, Unit = inch (mm)



- Screws (included)
1/4-20 UNC, 0.75 inch (19 mm) length, 4 pieces
- These dimensions are for double shaft models. For single shaft models, ignore the shaded area.

Model	L1 inch (mm)	L2 inch (mm)	Weight lb. (kg)	DXF
PK296A□A-SG□	4.96 (126)	—	6.2 (2.8)	B242U
PK296B□A-SG□		6.3 (160)		

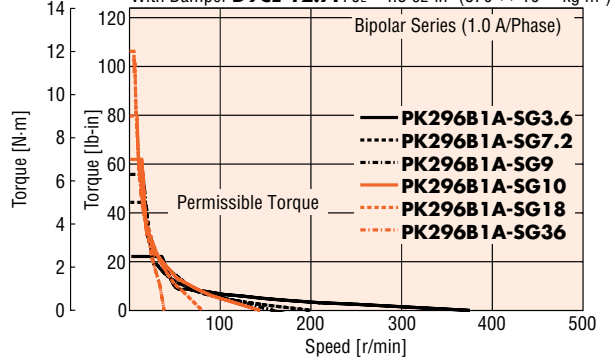
- Enter the winding specification in the box (□) within the model number.
- Enter the gear ratio in the box (□) within the model number.

Speed-Torque Characteristics

How to Read Speed-Torque Characteristics → Page C-10

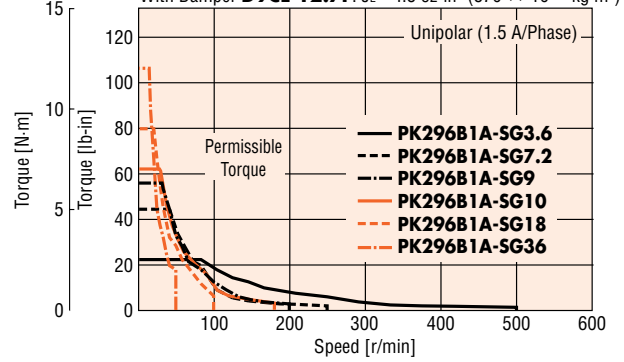
● PK296B1A-SG □ Bipolar (Series) 24 VDC

Power Input: 24 VDC Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$



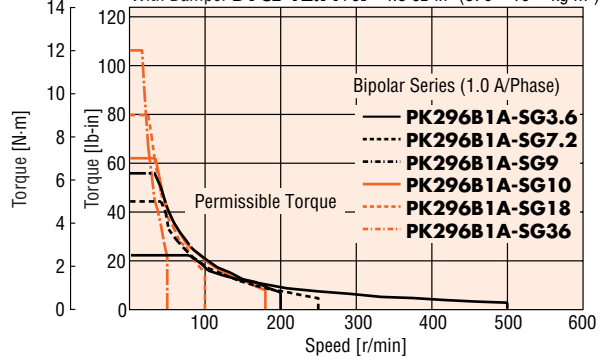
● PK296B1A-SG □ Unipolar

Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$



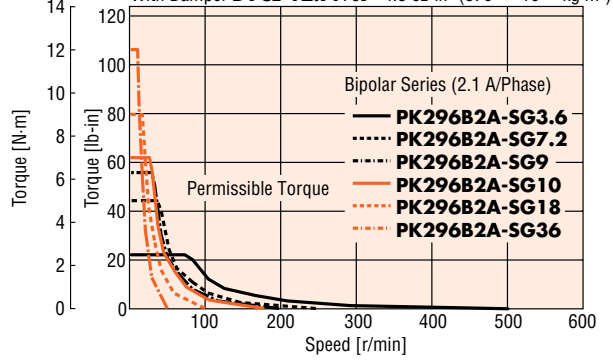
● PK296A1B-SG □ Bipolar (Series) 48 VDC

Power Input: 48 VDC Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$



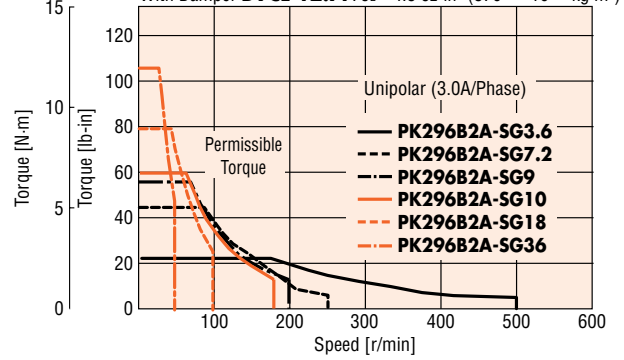
● PK296B2A-SG □ Bipolar (Series) 24 VDC

Power Input: 24 VDC Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$



● PK296B2A-SG □ Unipolar

Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$



● PK296B2A-SG □ Bipolar (Series) 48 VDC

Power Input: 48 VDC Bipolar Constant Current Driver
With Damper **D9CL-12.7F**: $J_L = 4.8 \text{ oz-in}^2 (870 \times 10^{-7} \text{ kg-m}^2)$

