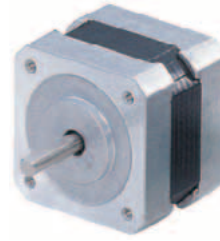


Step Angle 0.9°

Motor Frame Size 42 mm (1.65 in.)

PK Series Standard Type



Specifications (RoHS)

Model	Connection Type	Holding Torque		Rated Current	Voltage	Resistance	Inductance	Rotor Inertia J		Lead Wires	Corresponding AC/DC-Input Motor & Driver Package
		N·m	oz·in					kg·m ²	oz·in ²		
PK243M-01AA PK243M-01BA PK243MAAR	Bipolar (Series)	0.2	28	0.67	5.6	8.4	15.2	35×10 ⁻⁷	0.191	6	UMK243M□A/ CMK243M□PA/ CMK243MAPA-R
	Unipolar	0.16	22	0.95	4	4.2	3.8				
PK243M-02AA PK243M-02BA	Bipolar (Series)	0.2	28	0.42	8.4	20	38.8	35×10 ⁻⁷	0.191	6	-
	Unipolar	0.16	22	0.6	6	10	9.7				
PK243M-03AA PK243M-03BA	Bipolar (Series)	0.2	28	0.22	17	77	136	35×10 ⁻⁷	0.191	6	-
	Unipolar	0.16	22	0.31	12	38.5	34				
PK244M-01AA PK244M-01BA PK244MAAR	Bipolar (Series)	0.31	44	0.85	5.6	6.6	17.2	54×10 ⁻⁷	0.3	6	UMK244M□A/ CMK244M□PA/ CMK244MAPA-R
	Unipolar	0.26	36	1.2	4	3.3	4.3				
PK244M-02AA PK244M-02BA	Bipolar (Series)	0.31	44	0.57	8.6	15	38.8	54×10 ⁻⁷	0.3	6	-
	Unipolar	0.26	36	0.8	6	7.5	9.7				
PK244M-03AA PK244M-03BA	Bipolar (Series)	0.31	44	0.28	17	60	152	54×10 ⁻⁷	0.3	6	-
	Unipolar	0.26	36	0.4	12	30	38				
PK245M-01AA PK245M-01BA PK245MAAR	Bipolar (Series)	0.38	53	0.85	5.6	6.6	15.6	68×10 ⁻⁷	0.37	6	UMK245M□A/ CMK245M□PA/ CMK245MAPA-R
	Unipolar	0.32	45	1.2	4	3.3	3.9				
PK245M-02AA PK245M-02BA	Bipolar (Series)	0.38	53	0.57	8.6	15	39.6	68×10 ⁻⁷	0.37	6	-
	Unipolar	0.32	45	0.8	6	7.5	9.9				
PK245M-03AA PK245M-03BA	Bipolar (Series)	0.38	53	0.28	17	60	128	68×10 ⁻⁷	0.37	6	-
	Unipolar	0.32	45	0.4	12	30	32				

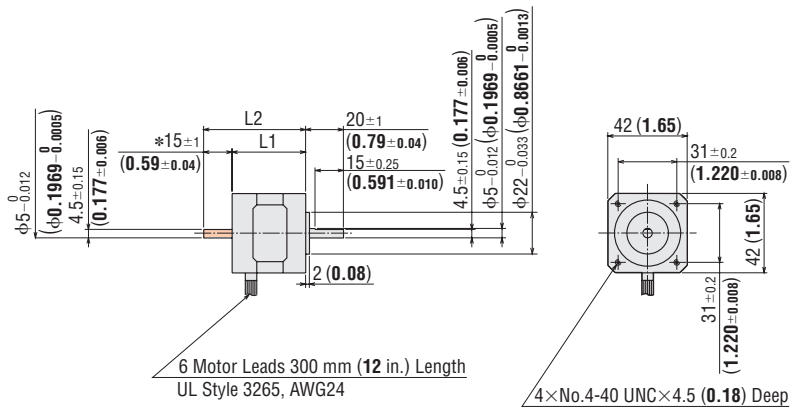
- Wirings and connections → Page A-288
Encoder specifications → Page A-17
- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.
- Product Number Code → Page A-278

Dimensions Unit = mm (in.)

The dimensions of a motor with an encoder can be found on page A-19 or at www.orientalmotor.com.

Model	L1	L2	Mass kg (lb.)	DXF
PK243M-0□AA PK243M-0□BA	33 (1.30)	- 48 (1.89)	0.24 (0.53)	B081U
PK244M-0□AA PK244M-0□BA	39 (1.54)	- 54 (2.13)	0.3 (0.66)	B082U
PK245M-0□AA PK245M-0□BA	47 (1.85)	- 62 (2.44)	0.37 (0.81)	B083U

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



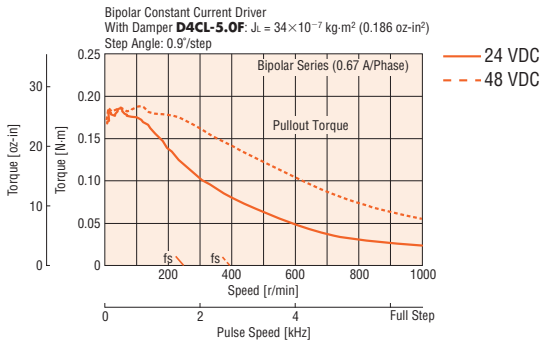
* The length of machining on the double shaft model is 15±0.25 (0.591±0.010).

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

Speed – Torque Characteristics

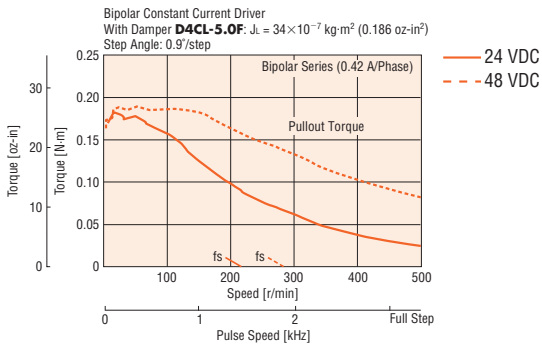
PK243M-01 A / PK243MAAR

Bipolar (Series)



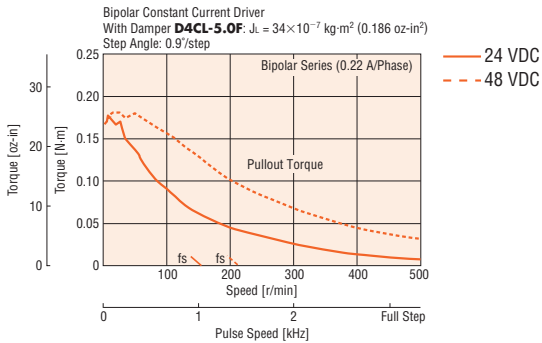
PK243M-02 A

Bipolar (Series)



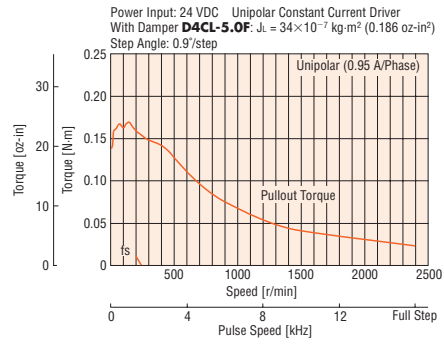
PK243M-03 A

Bipolar (Series)



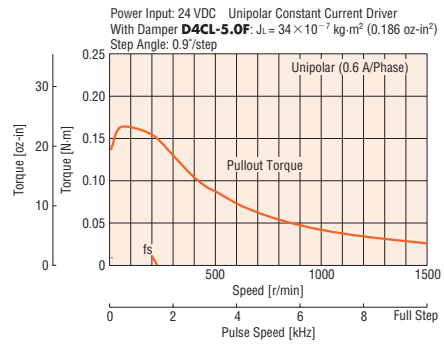
PK243M-01 A / PK243MAAR

Unipolar



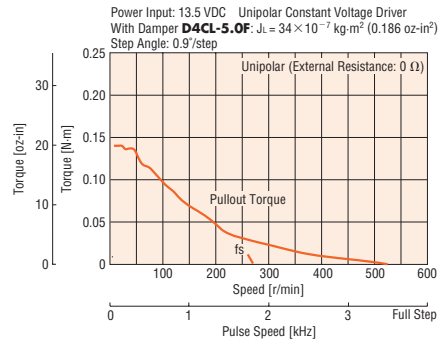
PK243M-02 A

Unipolar



PK243M-03 A

Unipolar



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (▣) within the model name.

Note

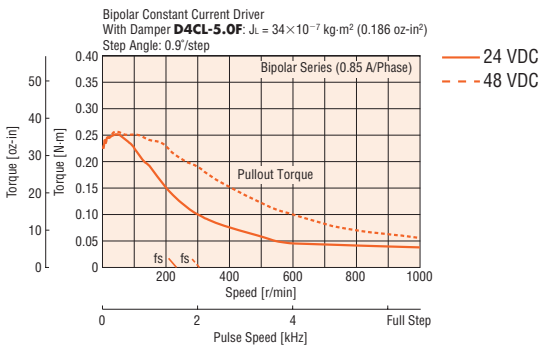
- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

Introduction	
AR	0.36° / Geared
AS	0.36° / Geared
RK	0.72° / Geared
UMK	0.9°/1.8° / Geared
AR	0.36° / Geared
ASX	0.36° / Geared
CRK	0.36°/0.72° / Geared
CMK	0.9°/1.8° / Geared
RBK	1.8° / Geared
PK	0.36°
PK	0.72°
PK	0.9°
PK/PV	1.8°
PK	Geared
SCX10 / EMP400 / SG80301	Controllers
	Accessories

Speed – Torque Characteristics

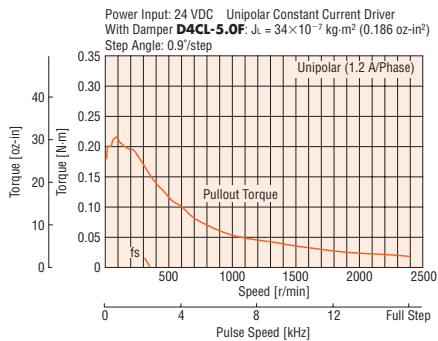
PK244M-01 A / PK244MAAR

Bipolar (Series)



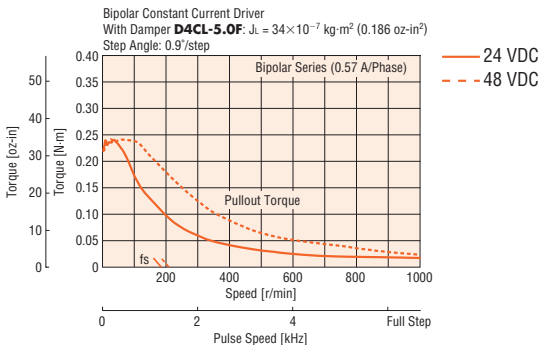
PK244M-01 A / PK244MAAR

Unipolar



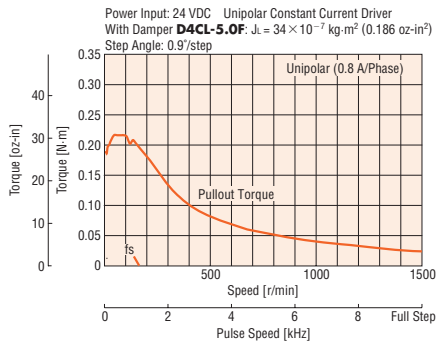
PK244M-02 A

Bipolar (Series)



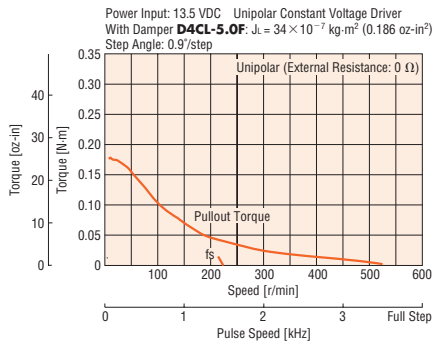
PK244M-02 A

Unipolar



PK244M-03 A

Unipolar



- Enter **A** (single shaft) or **B** (double shaft) in the box () within the model name.
Enter the encoder code (**15**, **16**, **25** or **26**) in the box () within the model name.

Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
Be sure to keep the temperature of the motor case under 100°C (212°F).

20 mm
(0.79 in.)

28 mm
(1.10 in.)

35 mm
(1.38 in.)

42 mm
(1.65 in.)

50 mm
(1.97 in.)

56.4 mm
(2.22 in.)

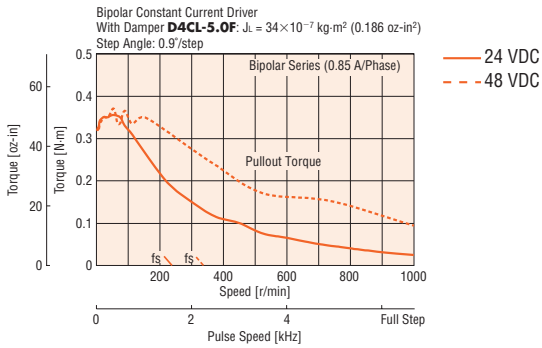
60 mm
(2.36 in.)

85 mm
(3.35 in.)

90 mm
(3.54 in.)

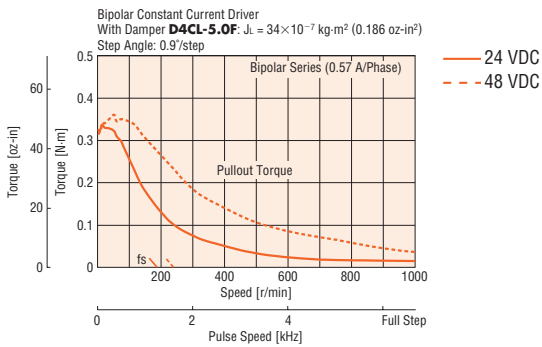
PK245M-01 A/PK245MAAR

Bipolar (Series)



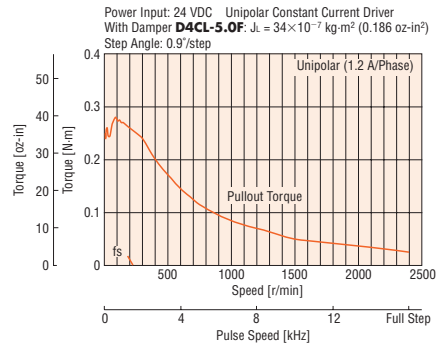
PK245M-02 A

Bipolar (Series)



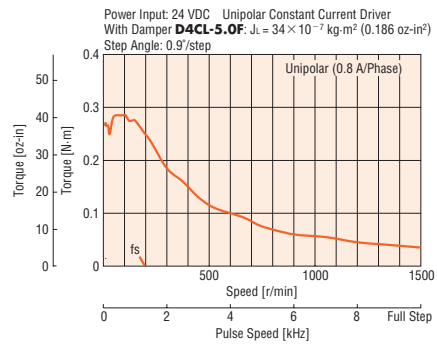
PK245M-01 A/PK245MAAR

Unipolar



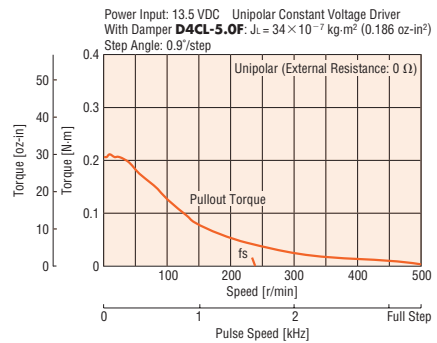
PK245M-02 A

Unipolar



PK245M-03 A

Unipolar



- Enter **A** (single shaft) or **B** (double shaft) in the box () within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box () within the model name.

Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

Introduction	AC Input Motor & Driver	Motor Only	Controllers
AR	0.36° / Geared	PK	SCX10
AS	0.36° / Geared	PK	EMP400
RK	0.72° / Geared	PK	/SG8030J
UMK	0.9°/1.8°	PK	Accessories
AR	0.36° / Geared	PK	
ASX	0.36° / Geared	PK	
CRK	0.36°/0.72° / Geared	PK	
CMK	0.9°/1.8° / Geared	PK	
RBK	1.8° / Geared	PK	
PK	0.36°	PK	
PK	0.72°	PK/PV	
PK	0.9°	Geared	
PK	1.8°	PK	

Step Angle 0.9°

Motor Frame Size 56.4 mm (2.22 in.)

PK Series Standard Type



Specifications RoHS

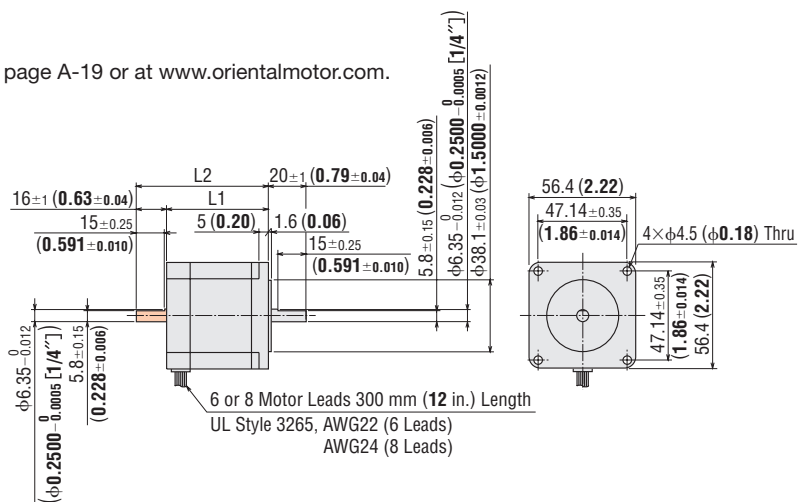
Model	Connection Type	Holding Torque		Rated Current	Voltage	Resistance	Inductance	Rotor Inertia J		Lead Wires	Corresponding AC/DC-Input Motor & Driver Package
		N·m	oz·in					kg·m ²	oz·in ²		
PK264M-01A PK264M-01B	Bipolar (Series)	0.48	68	0.71	8.1	11.4	26	120×10 ⁻⁷	0.66	6	-
	Unipolar	0.39	55	1	5.7	5.7	6.5				
PK264M-02A PK264M-02B PK264MAR□	Bipolar (Series)	0.48	68	1.4	3.9	2.8	6.8	120×10 ⁻⁷	0.66	6	UMK264M□A/ CMK264M□P/ CMK264MAP-R□
	Unipolar	0.39	55	2	2.8	1.4	1.7				
PK264M-03A PK264M-03B	Bipolar (Series)	0.48	68	2.1	2.6	1.26	3	120×10 ⁻⁷	0.66	6	-
	Unipolar	0.39	55	3	1.9	0.63	0.75				
PK264M-E2.0A PK264M-E2.0B	Bipolar (Parallel)	0.48	68	2.8	1.96	0.7	1.7	120×10 ⁻⁷	0.66	8	-
	Bipolar (Series)	0.48	68	1.4	3.9	2.8	6.8				
	Unipolar	0.39	55	2	2.8	1.4	1.7				
PK266M-01A PK266M-01B	Bipolar (Series)	1.17	166	0.71	11	14.8	50.8	300×10 ⁻⁷	1.64	6	-
	Unipolar	0.9	127	1	7.4	7.4	12.7				
PK266M-02A PK266M-02B PK266MAR□	Bipolar (Series)	1.17	166	1.4	5	3.6	12.8	300×10 ⁻⁷	1.64	6	UMK266M□A/ CMK266M□P/ CMK266MAP-R□
	Unipolar	0.9	127	2	3.6	1.8	3.2				
	Bipolar (Series)	1.17	166	2.1	3.2	1.5	5.8				
PK266M-03A PK266M-03B	Unipolar	0.9	127	3	2.3	0.75	1.45	300×10 ⁻⁷	1.64	6	-
	Bipolar (Parallel)	1.17	166	2.8	2.52	0.9	3.2				
PK266M-E2.0A PK266M-E2.0B	Bipolar (Series)	1.17	166	1.4	5	3.6	12.8	300×10 ⁻⁷	1.64	8	-
	Bipolar (Series)	1.17	166	1.4	5	3.6	12.8				
	Unipolar	0.9	127	2	3.6	1.8	3.2				
PK268M-01A PK268M-01B	Bipolar (Series)	1.75	240	0.71	12	17.2	77.6	480×10 ⁻⁷	2.6	6	-
	Unipolar	1.35	191	1	8.6	8.6	19.4				
PK268M-02A PK268M-02B PK268MAR□	Bipolar (Series)	1.75	240	1.4	6.3	4.5	19.2	480×10 ⁻⁷	2.6	6	UMK268M□A/ CMK268M□P/ CMK268MAP-R□
	Unipolar	1.35	191	2	4.5	2.25	4.8				
	Bipolar (Series)	1.75	240	2.1	4.2	2	8.4				
PK268M-03A PK268M-03B	Unipolar	1.35	191	3	3	1	2.1	480×10 ⁻⁷	2.6	6	-
	Bipolar (Parallel)	1.75	240	2.8	3.16	1.13	4.8				
PK268M-E2.0A PK268M-E2.0B	Bipolar (Series)	1.75	240	1.4	6.3	4.5	19.2	480×10 ⁻⁷	2.6	8	-
	Bipolar (Series)	1.75	240	1.4	6.3	4.5	19.2				
	Unipolar	1.35	191	2	4.5	2.25	4.8				

- Wirings and connections → Page A-288
- Encoder specifications → Page A-17
- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.
- Product Number Code → Page A-278

Dimensions Unit = mm (in.)

The dimensions of a motor with an encoder can be found on page A-19 or at www.orientalmotor.com.

Model	L1	L2	Mass kg (lb.)	DXF
PK264M-0□A PK264M-E2.0A	39 (1.54)	-	0.45 (0.99)	B084
PK264M-0□B PK264M-E2.0B		55 (2.17)		
PK266M-0□A PK266M-E2.0A	54 (2.13)	-	0.7 (1.54)	B085
PK266M-0□B PK266M-E2.0B		70 (2.76)		
PK268M-0□A PK268M-E2.0A	76 (2.99)	-	1 (2.2)	B086
PK268M-0□B PK268M-E2.0B		92 (3.62)		

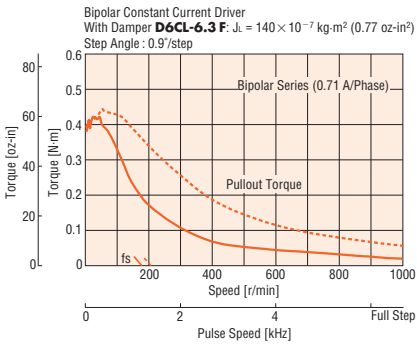


- Enter the winding specification in the box (□) within the model name.
- These dimensions are for the double shaft models. For the single shaft models, ignore the orange (■) area.

Speed – Torque Characteristics

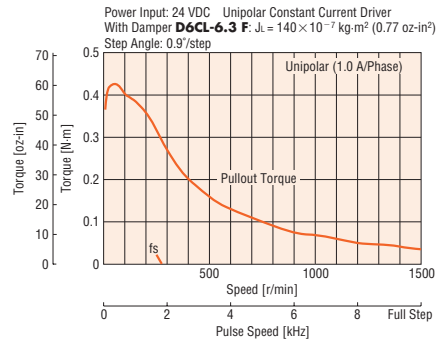
PK264M-01

Bipolar (Series)



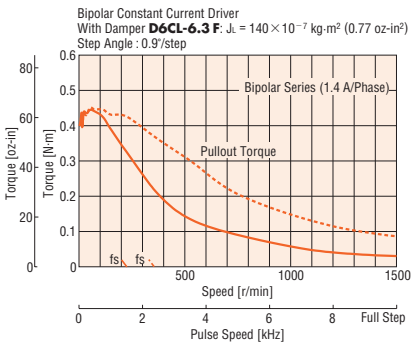
PK264M-01

Unipolar



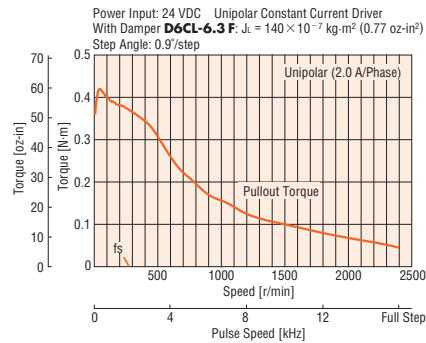
PK264M-02 /PK264MAR

Bipolar (Series)



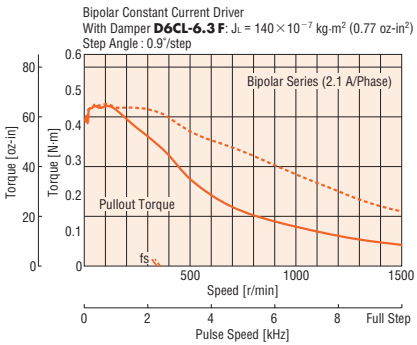
PK264M-02 /PK264MAR

Unipolar



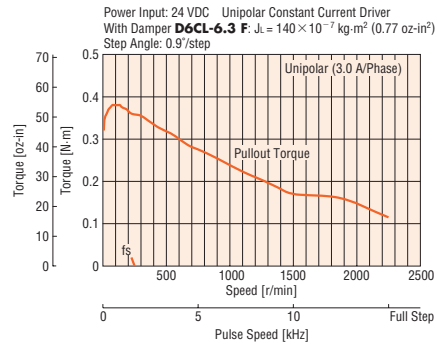
PK264M-03

Bipolar (Series)



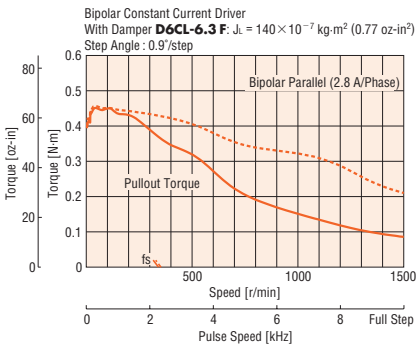
PK264M-03

Unipolar



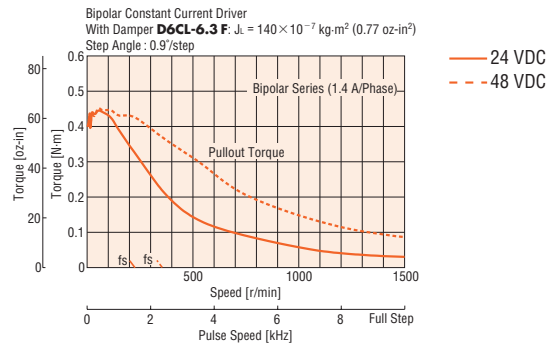
PK264M-E2.0

Bipolar (Parallel)



PK264M-E2.0

Bipolar (Series)



- Enter **A** (single shaft) or **B** (double shaft) in the box () within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box () within the model name.

Note

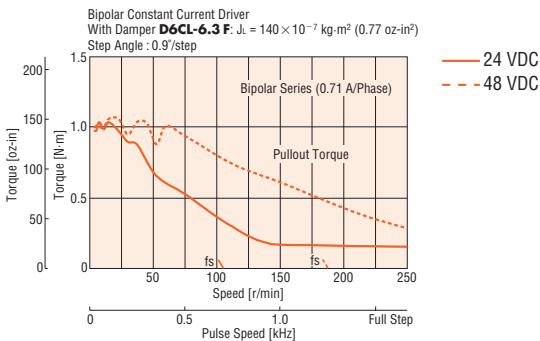
- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
- Be sure to keep the temperature of the motor case under 100°C (212°F).

Introduction	
AR	0.36° / Geared
AS	0.36° / Geared
RK	0.72° / Geared
UMK	0.9°/1.8° / Geared
AR	0.36° / Geared
ASX	0.36° / Geared
CRK	0.36°/0.72° / Geared
CMK	0.9°/1.8° / Geared
RBK	1.8° / Geared
PK	0.36°
PK	0.72°
PK	0.9°
PK/PV	1.8°
PK	Geared
SCX10 / EMP400 / SG8030J	Controllers
	Accessories

Speed – Torque Characteristics

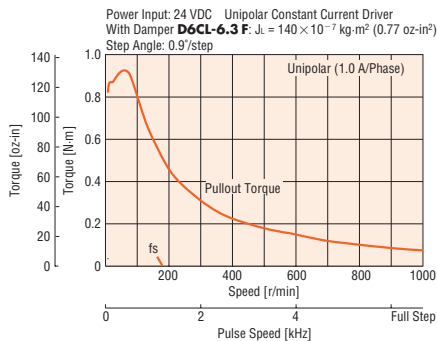
PK266M-01

Bipolar (Series)



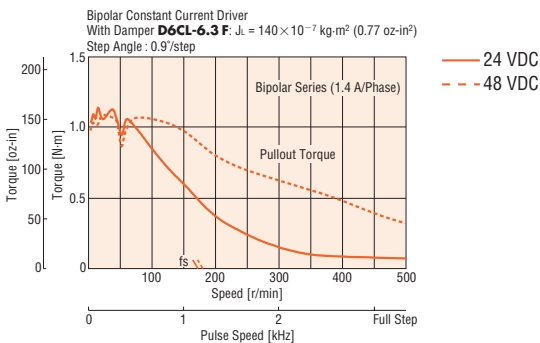
PK266M-01

Unipolar



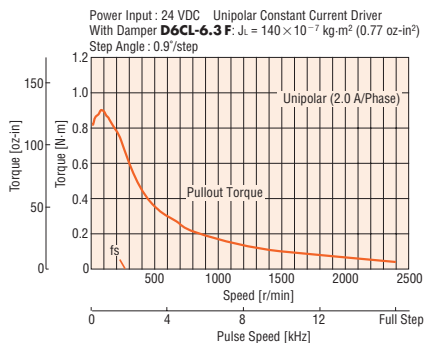
PK266M-02 /PK266MAR

Bipolar (Series)



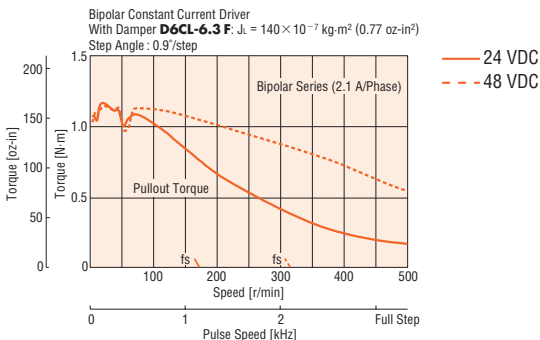
PK266M-02 /PK266MAR

Unipolar



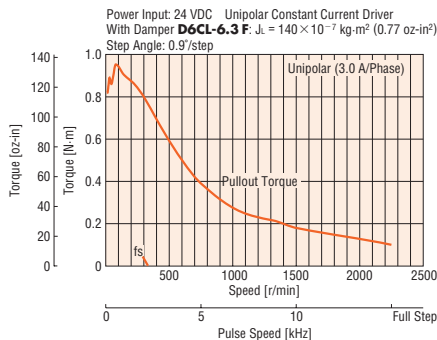
PK266M-03

Bipolar (Series)



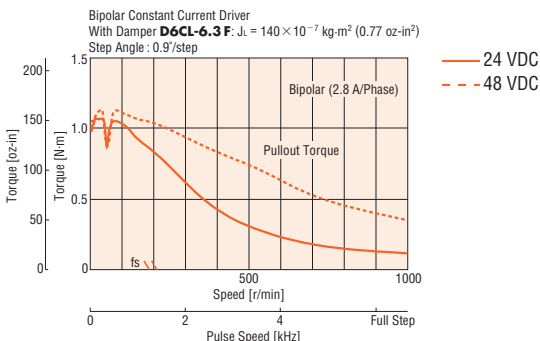
PK266M-03

Unipolar



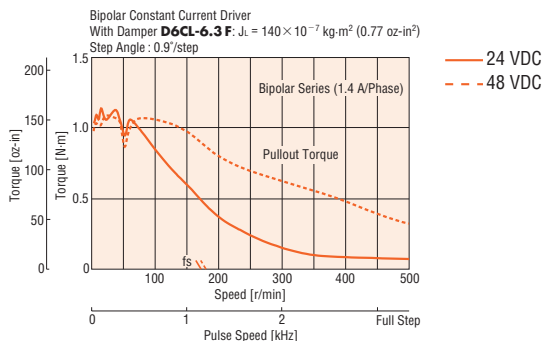
PK266M-E2.0

Bipolar (Parallel)



PK266M-E2.0

Bipolar (Series)



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (▣) within the model name.

Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

20 mm
(0.79 in.)

28 mm
(1.10 in.)

35 mm
(1.38 in.)

42 mm
(1.65 in.)

50 mm
(1.97 in.)

56.4 mm
(2.22 in.)

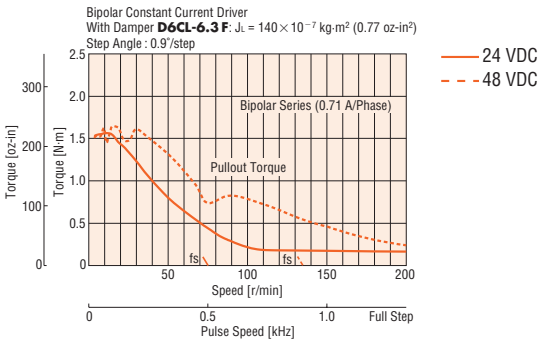
60 mm
(2.36 in.)

85 mm
(3.35 in.)

90 mm
(3.54 in.)

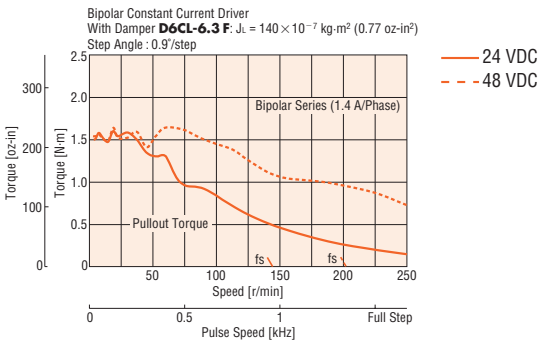
PK268M-01

Bipolar (Series)



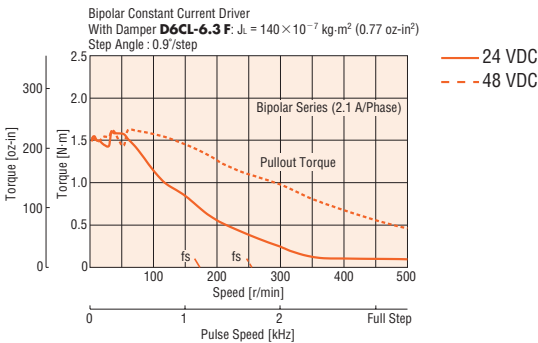
PK268M-02 /PK268MAR

Bipolar (Series)



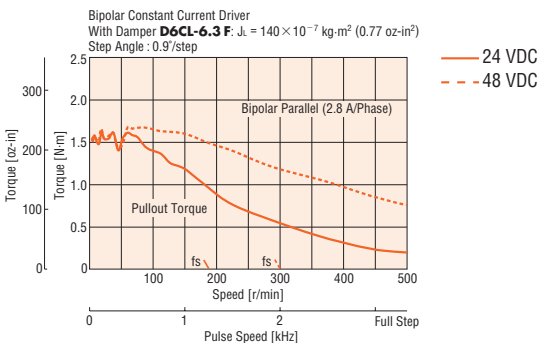
PK268M-03

Bipolar (Series)



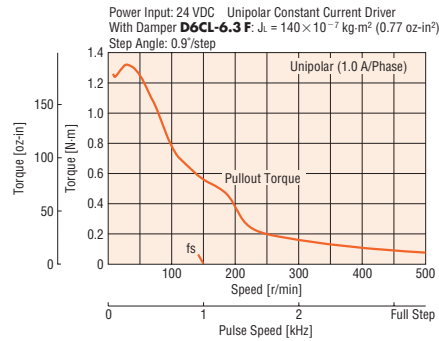
PK268M-E2.0

Bipolar (Parallel)



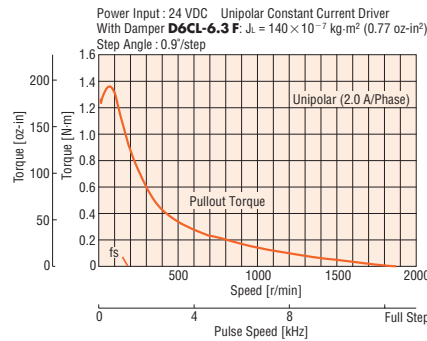
PK268M-01

Unipolar



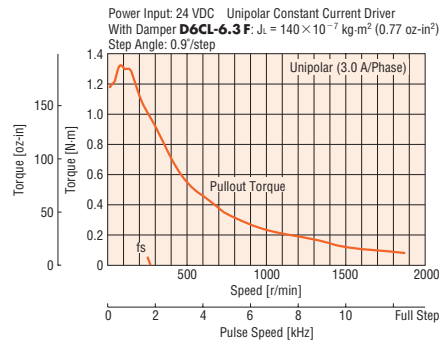
PK268M-02 /PK268MAR

Unipolar



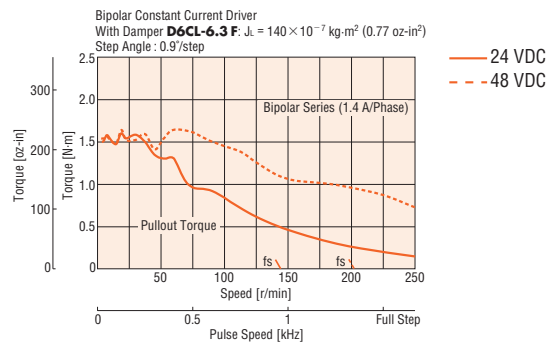
PK268M-03

Unipolar



PK268M-E2.0

Bipolar (Series)



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (▣) within the model name.

Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
- Be sure to keep the temperature of the motor case under 100°C (212°F).

Introduction	
AR <input type="checkbox"/> / Geared <input type="checkbox"/> / AS <input type="checkbox"/>	AC Input Motor & Driver
AS <input type="checkbox"/> / Geared <input type="checkbox"/>	
RK <input type="checkbox"/>	
UMK <input type="checkbox"/>	
AR <input type="checkbox"/> / Geared <input type="checkbox"/> / ASX <input type="checkbox"/>	DC Input Motor & Driver
CRK <input type="checkbox"/>	
CMK <input type="checkbox"/>	
RBK <input type="checkbox"/>	
PK <input type="checkbox"/>	Motor Only
PK <input type="checkbox"/>	
PK <input type="checkbox"/>	
PK <input type="checkbox"/> / PV <input type="checkbox"/>	
Geared <input type="checkbox"/> / PK <input type="checkbox"/>	
Controllers SCX10 /EMP400 /SG80301	
Accessories	

Step Angle 1.8°

Motor Frame Size 42 mm (1.65 in.)

PK Series High-Torque, High-Efficiency Type



20 mm
(0.79 in.)

28 mm
(1.10 in.)

35 mm
(1.38 in.)

42 mm
(1.65 in.)

50 mm
(1.97 in.)

56.4 mm
(2.22 in.)

60 mm
(2.36 in.)

85 mm
(3.35 in.)

90 mm
(3.54 in.)

Specifications (RoHS)

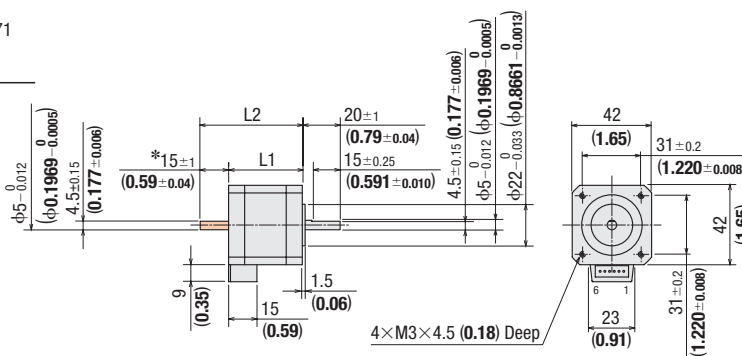
Model • Single Shaft • Double Shaft	Connection Type	Holding Torque		Rated Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J		Lead Wires (Pins)
		N-m	oz-in					kg·m ²	oz-in ²	
PKE243DA-L PKE243DB-L	Bipolar	0.3	42	1.5	1.93	1.29	3.7	36×10 ⁻⁷	0.197	4
PKE243A-L PKE243B-L	Bipolar (Series) Unipolar	0.24	34	0.67 0.95	4.42 3.14	6.6 3.3	18.8 4.7			6
PKE244DA-L PKE244DB-L	Bipolar	0.48	68	1.5	3.9	2.6	6.25	57×10 ⁻⁷	0.31	4
PKE244A-L PKE244B-L	Bipolar (Series) Unipolar	0.39	55	0.85 1.2	6.8 4.8	8 4	19.4 4.85			6
PKE245DA-L PKE245DB-L	Bipolar	0.55	78	1.5	2.9	1.94	7	83×10 ⁻⁷	0.45	4
PKE245A-L PKE245B-L	Bipolar (Series) Unipolar	0.44	62	0.85 1.2	4.59 3.24	5.4 2.7	19.2 4.8			6

- Wirings and connections → Page A-288
- Connection cable assembly of 0.6 m (2 ft.) is included.

Dimensions Unit = mm (in.)

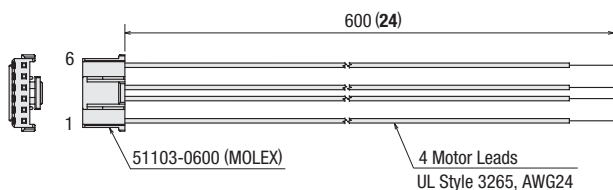
Model	L1	L2	Mass kg (lb.)	DXF
PKE243DA-L PKE243DB-L PKE243A-L PKE243B-L	33 (1.3)	— 48 (1.89) — 48 (1.89)	0.27 (0.59)	B570
PKE244DA-L PKE244DB-L PKE244A-L PKE244B-L	39 (1.54)	— 54 (2.13) — 54 (2.13)	0.32 (0.70)	B331
PKE245DA-L PKE245DB-L PKE245A-L PKE245B-L	47 (1.85)	— 62 (2.44) — 62 (2.44)	0.41 (0.90)	B571

- Applicable Connector
Connector housing: 51103-0600 (MOLEX)
Contact: 50351-8100 (MOLEX)
Crimp tool: 57295-5000 (MOLEX)

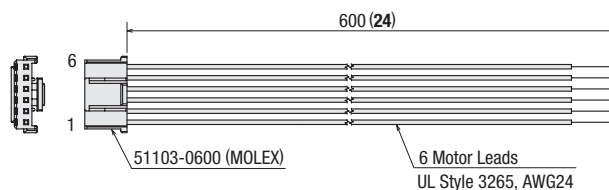


- Connection Cable (included)

LC2B06B



LC2U06B



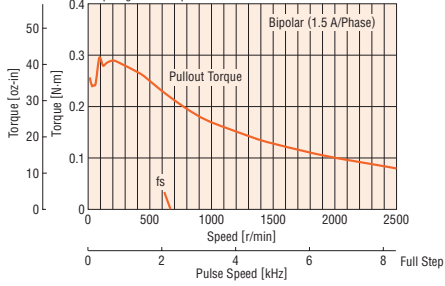
- These dimensions are for the double shaft models. For single shaft models, ignore the shaded area.

Speed – Torque Characteristics

PKE243D

Bipolar

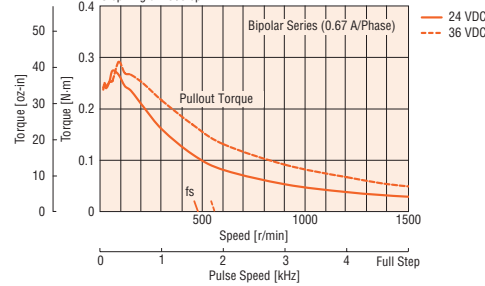
Power Input: 24 VDC Bipolar Constant Current Driver
With Damper **D4CL-5.0F** : $J_s=34 \times 10^{-7}$ kg·m² (0.186 oz-in²)
Step Angle 1.8°/step



PKE243

Bipolar (Series)

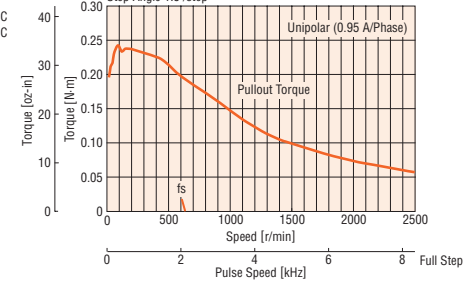
Bipolar Constant Current Driver
With Damper **D4CL-5.0F** : $J_s=34 \times 10^{-7}$ kg·m² (0.186 oz-in²)
Step Angle 1.8°/step



PKE243

Unipolar

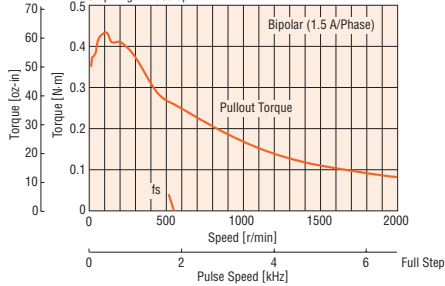
Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D4CL-5.0F** : $J_s=34 \times 10^{-7}$ kg·m² (0.186 oz-in²)
Step Angle 1.8°/step



PKE244D

Bipolar

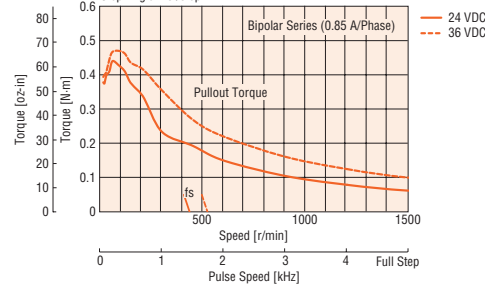
Power Input: 24 VDC Bipolar Constant Current Driver
With Damper **D4CL-5.0F** : $J_s=34 \times 10^{-7}$ kg·m² (0.186 oz-in²)
Step Angle 1.8°/step



PKE244

Bipolar (Series)

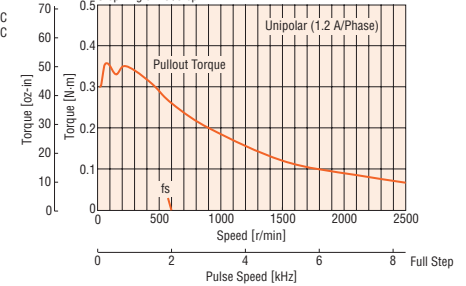
Bipolar Constant Current Driver
With Damper **D4CL-5.0F** : $J_s=34 \times 10^{-7}$ kg·m² (0.186 oz-in²)
Step Angle 1.8°/step



PKE244

Unipolar

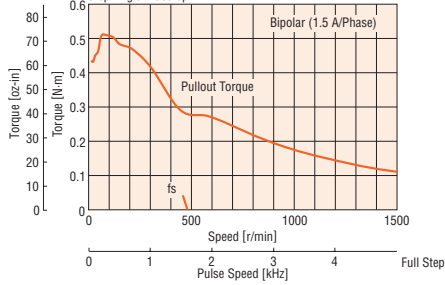
Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D4CL-5.0F** : $J_s=34 \times 10^{-7}$ kg·m² (0.186 oz-in²)
Step Angle 1.8°/step



PKE245D

Bipolar

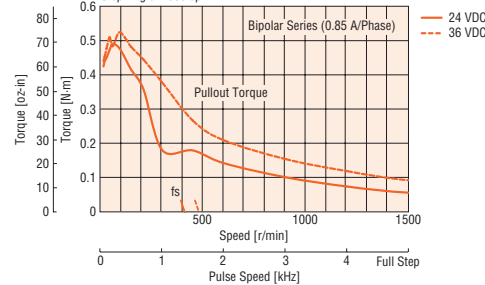
Power Input: 24 VDC Bipolar Constant Current Driver
With Damper **D4CL-5.0F** : $J_s=34 \times 10^{-7}$ kg·m² (0.186 oz-in²)
Step Angle 1.8°/step



PKE245

Bipolar (Series)

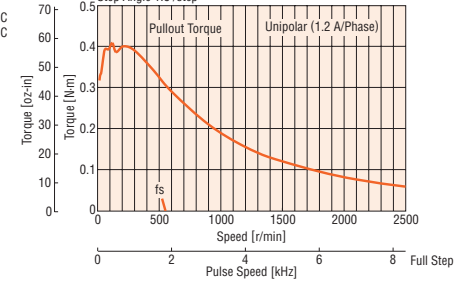
Bipolar Constant Current Driver
With Damper **D4CL-5.0F** : $J_s=34 \times 10^{-7}$ kg·m² (0.186 oz-in²)
Step Angle 1.8°/step



PKE245

Unipolar

Power Input: 24 VDC Unipolar Constant Current Driver
With Damper **D4CL-5.0F** : $J_s=34 \times 10^{-7}$ kg·m² (0.186 oz-in²)
Step Angle 1.8°/step



Accessories (Sold separately)

The connection cable is available as an accessory.

- Connection cable → Page A-409

Introduction	
AR	AC Input Motor & Driver
AR	0.36° / Geared
AS	0.72° / Geared
RK	0.9°/1.8°
UMK	0.9°/1.8°
AR	DC Input Motor & Driver
AR	0.36° / Geared
ASX	0.36° / Geared
CRK	0.36°/0.72° / Geared
CMK	0.9°/1.8° / Geared
RBK	1.8° / Geared
PK	0.36°
PK	0.72°
PK	0.9°
PK/PV	1.8°
PK	Geared
SCX10 / EMP400 / SG80301	Controllers
	Accessories

Step Angle 1.8°

Motor Frame Size 20 mm (0.79 in.)

PK Series High-Torque Type

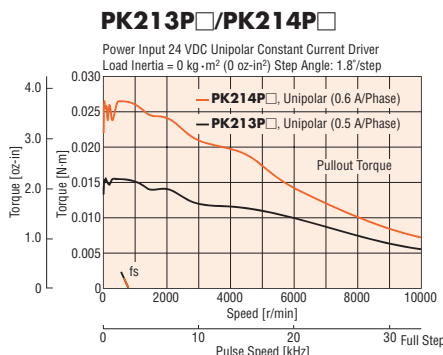
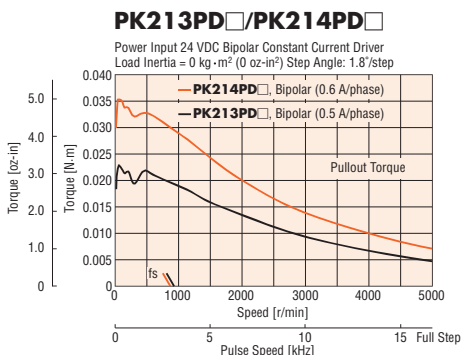


Specifications RoHS

Model • Single Shaft • Double Shaft	Connection Type	Holding Torque		Rated Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J		Lead Wires
		N·m	oz·in					kg·m ²	oz·in ²	
PK213PDA PK213PDB	Bipolar	0.02	2.8	0.5	4.25	8.5	4.1	1.6×10 ⁻⁷	0.0088	4
PK213PA PK213PB	Unipolar	0.014	1.98							5
PK214PDA PK214PDB	Bipolar	0.036	5.1	0.6	3.9	6.5	3.5	2.9×10 ⁻⁷	0.0159	4
PK214PA PK214PB	Unipolar	0.026	3.6							5

• Wirings and connections → Page A-288

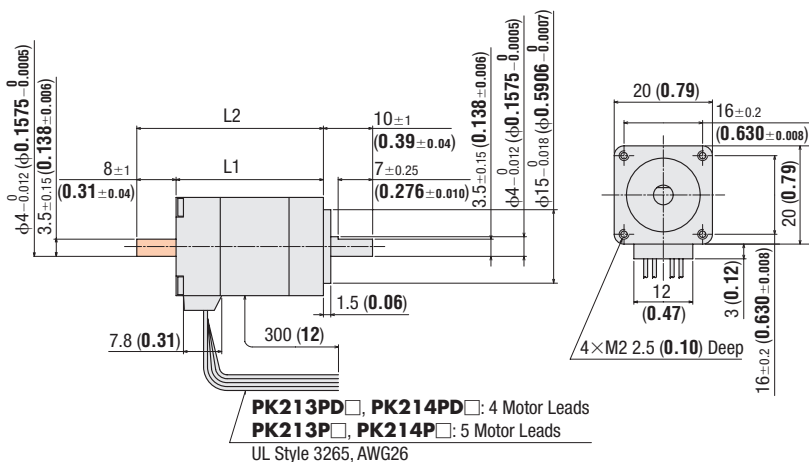
Speed – Torque Characteristics



• Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.

Dimensions Unit = mm (in.)

Model	L1	L2	Mass kg (lb.)	DXF
PK213PDA, PK213PA PK213PDB, PK213PB	30 (1.18)	— 38 (1.50)	0.05 (0.11)	B611
PK214PDA, PK214PA PK214PDB, PK214PB	40 (1.57)	— 48 (1.89)	0.07 (0.154)	B792



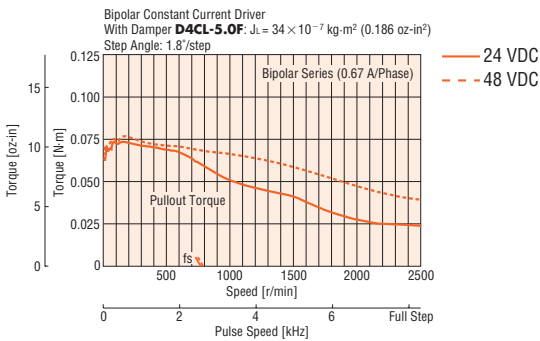
• These dimensions are for the double shaft models. For the single shaft models, ignore the orange (■) area.

- 20 mm (0.79 in.)
- 28 mm (1.10 in.)
- 35 mm (1.38 in.)
- 42 mm (1.65 in.)
- 50 mm (1.97 in.)
- 56.4 mm (2.22 in.)
- 60 mm (2.36 in.)
- 85 mm (3.35 in.)
- 90 mm (3.54 in.)

Speed – Torque Characteristics

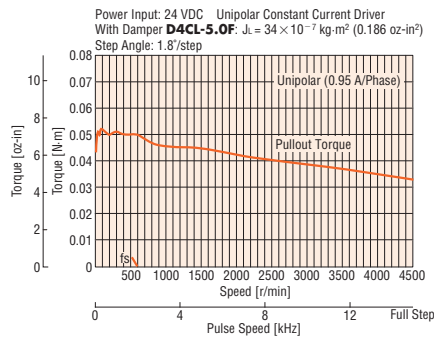
PK223P□/PK223PAR15

Bipolar (Series)



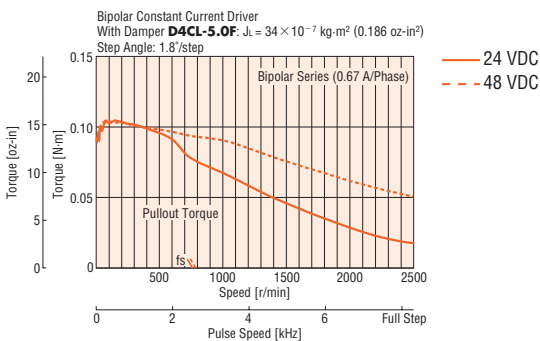
PK223P□/PK223PAR15

Unipolar



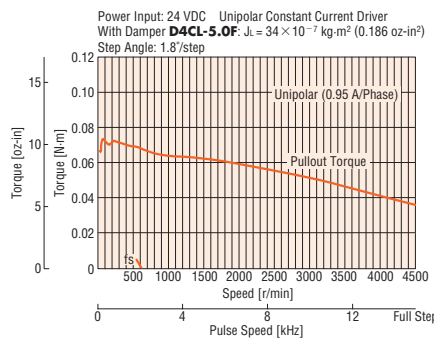
PK224P□/PK224PAR15

Bipolar (Series)



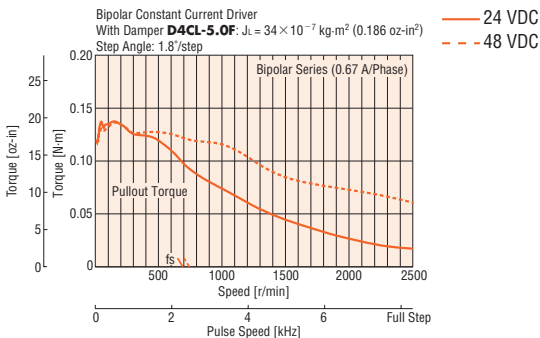
PK224P□/PK224PAR15

Unipolar



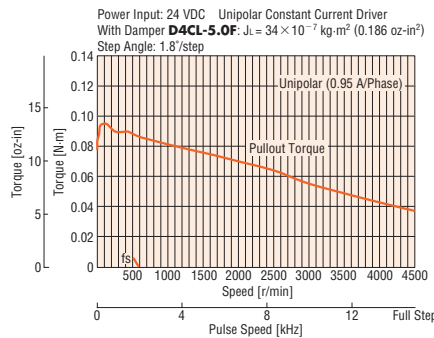
PK225P□/PK225PAR15

Bipolar (Series)



PK225P□/PK225PAR15

Unipolar



● Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.

Note

● Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
Be sure to keep the temperature of the motor case under 100°C (212°F).

Step Angle 1.8°

Motor Frame Size 35 mm (1.38 in.)

PK Series High-Torque Type



Specifications RoHS

Model • Single Shaft • Double Shaft • with Encoder	Connection Type	Holding Torque		Rated Current	Voltage	Resistance	Inductance	Rotor Inertia J		Lead Wires (Pins)	Corresponding DC-Input Motor & Driver Package CMK Series
		N·m	oz·in					kg·m ²	oz·in ²		
PK233PA PK233PB PK233PAR □	Bipolar (Series)	0.2	28	0.85	4.6	5.4	5.6	24×10 ⁻⁷	0.131	6	CMK233P □ P/ CMK233PAP-R □
	Unipolar	0.16	22	1.2	3.24	2.7	1.4				
PK235PA PK235PB PK235PAR □	Bipolar (Series)	0.37	52	0.85	5.8	6.8	8	50×10 ⁻⁷	0.27	6	CMK235P □ P/ CMK235PAP-R □
	Unipolar	0.3	42	1.2	4.08	3.4	2				

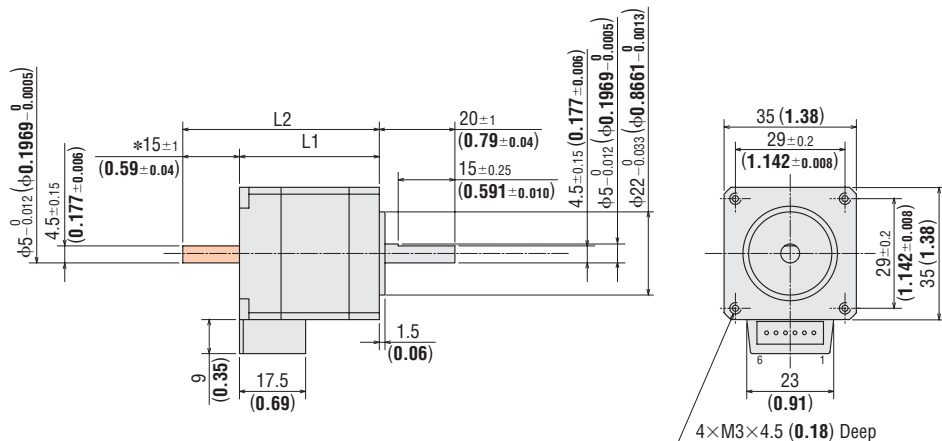
- Wirings and connections → Page A-288
- Encoder specifications → Page A-17
- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.
- Product Number Code → Page A-278

Dimensions Unit = mm (in.)

The dimensions of a motor with an encoder can be found on page A-19 or at www.orientalmotor.com.

Model	L1	L2	Mass kg (lb.)	DXF
PK233PA	37 (1.46)	—	0.18 (0.4)	B329
PK233PB		52 (2.05)		
PK235PA	52 (2.05)	—	0.285 (0.63)	B330
PK235PB		67 (2.64)		

- Lead wire and connector are not supplied with the connector-coupled motor and must be purchased separately. Connection cable is available as an accessory (sold separately).
- Applicable Connector
Connector housing: 51103-0600 (MOLEX)
Contact: 50351-8100 (MOLEX)
Crimp tool: 57295-5000 (MOLEX)



* The length of machining on the double shaft model is $15_{\pm 0.25}$ (0.591 ± 0.010).

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

Accessories (Sold separately)

The connection cable is available as an accessory.

- Connection cable → Page A-409

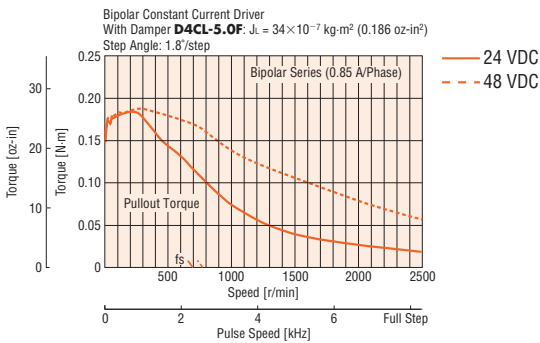
Introduction	AC Input Motor & Driver	DC Input Motor & Driver	Motor Only
AR	0.36° / Geared	0.36° / Geared	PK
AS	0.72° / Geared	0.36° / Geared	PK
UMK	0.9° / 1.8° / Geared	0.9° / 1.8° / Geared	PK
AR	0.36° / Geared	1.8° / Geared	PK / PV
ASX	0.36° / Geared	PK	Geared
CRK	0.36° / 0.72° / Geared	PK	PK
CMK	0.9° / 1.8° / Geared	PK	PK
RBK	1.8° / Geared	PK	PK
PK	0.36°	PK	PK
PK	0.72°	PK	PK
PK	0.9°	PK	PK
PK / PV	1.8°	PK	PK
PK	Geared	PK	PK
SCX10 / EMP400 / SG80301	Controllers	PK	PK
Accessories	Accessories	PK	PK

- 20 mm (0.79 in.)
- 28 mm (1.10 in.)
- 35 mm (1.38 in.)
- 42 mm (1.65 in.)
- 50 mm (1.97 in.)
- 56.4 mm (2.22 in.)
- 60 mm (2.36 in.)
- 85 mm (3.35 in.)
- 90 mm (3.54 in.)

Speed – Torque Characteristics

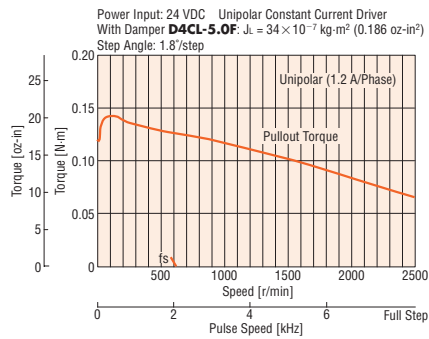
PK233P□/PK233PAR□

Bipolar (Series)



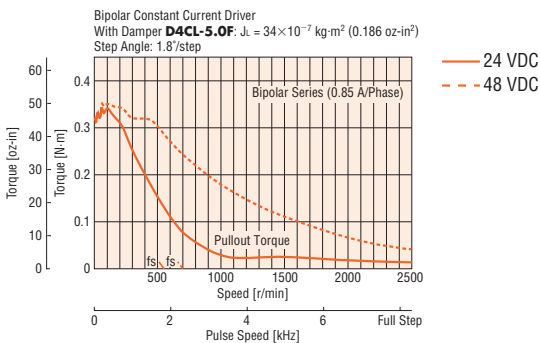
PK233P□/PK233PAR□

Unipolar



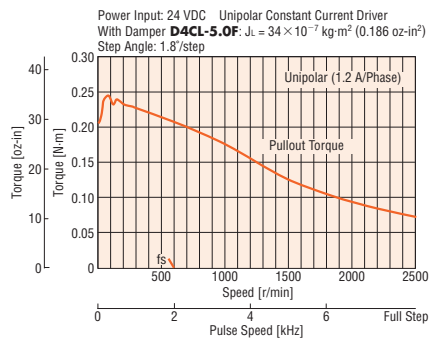
PK235P□/PK235PAR□

Bipolar (Series)



PK235P□/PK235PAR□

Unipolar



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.

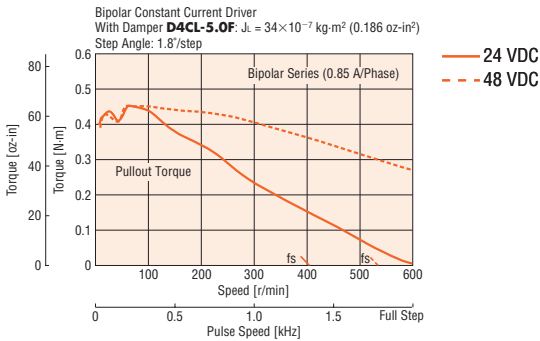
Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

Speed – Torque Characteristics

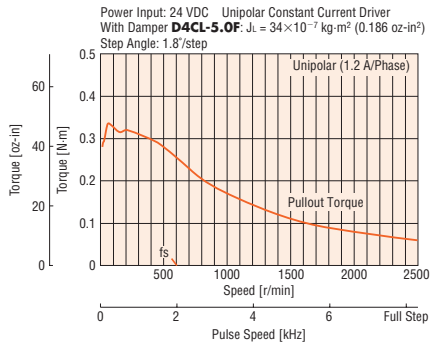
PK244P□/PK244PAR□

Bipolar (Series)



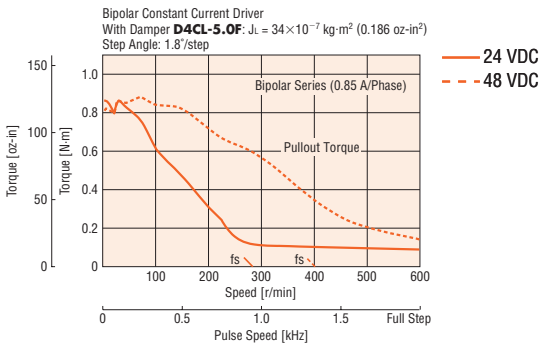
PK244P□/PK244PAR□

Unipolar



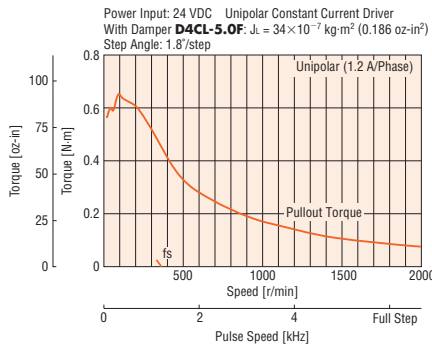
PK246P□/PK246PAR□

Bipolar (Series)



PK246P□/PK246PAR□

Unipolar



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.

Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
Be sure to keep the temperature of the motor case under 100°C (212°F).

□ 20 mm
(□ 0.79 in.)

□ 28 mm
(□ 1.10 in.)

□ 35 mm
(□ 1.38 in.)

□ 42 mm
(□ 1.65 in.)

□ 50 mm
(□ 1.97 in.)

□ 56.4 mm
(□ 2.22 in.)

□ 60 mm
(□ 2.36 in.)

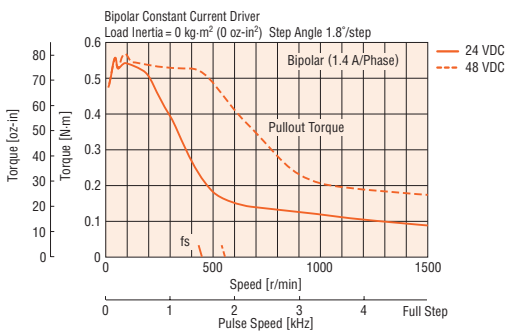
□ 85 mm
(□ 3.35 in.)

□ 90 mm
(□ 3.54 in.)

Speed – Torque Characteristics

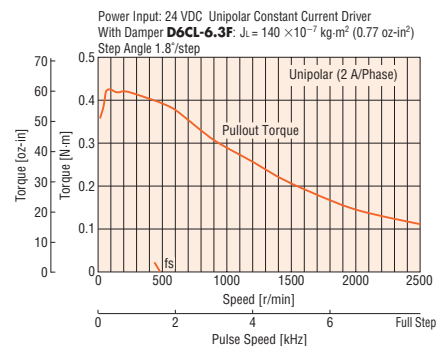
PK264P A / PK264PAAR

Bipolar (Series)



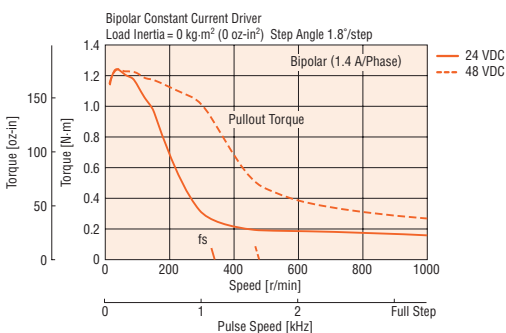
PK264P A / PK264PAAR

Unipolar



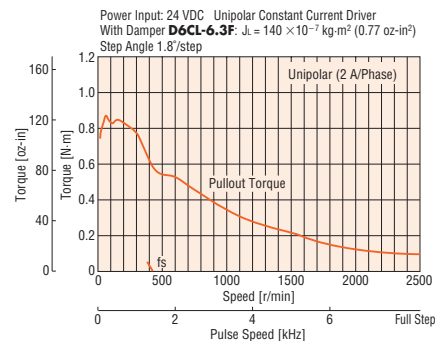
PK266P A / PK266PAAR

Bipolar (Series)



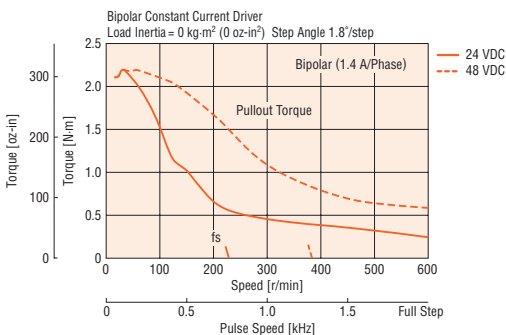
PK266P A / PK266PAAR

Unipolar



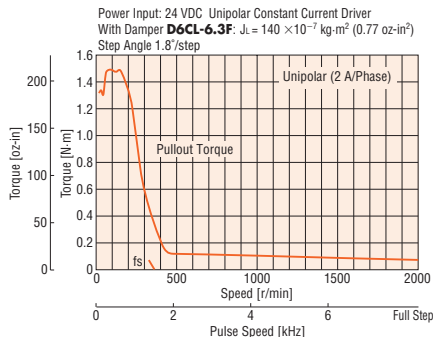
PK268P A / PK268PAAR

Bipolar (Series)



PK268P A / PK268PAAR

Unipolar



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.

Accessories (Sold separately)

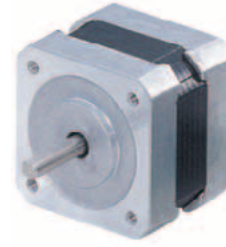
The connection cable is available as an accessory.

- Connection cable → Page A-407

Step Angle 1.8°

Motor Frame Size 42 mm (1.65 in.)

PK Series Standard Type



Specifications (RoHS)

Model	Connection Type	Holding Torque		Rated Current	Voltage	Resistance	Inductance	Rotor Inertia J		Lead Wires	Corresponding AC/DC-Input Motor & Driver Package
		N·m	oz·in					kg·m ²	oz·in ²		
PK243-01AA PK243-01BA PK243-01AAR □	Bipolar (Series) Unipolar	0.2 0.16	28 22	0.67 0.95	5.6 4	8.4 4.2	10 2.5	35×10 ⁻⁷	0.191	6	UMK243 □ A/ CMK243 □ PA/ CMK243APA-R □
PK243-02AA PK243-02BA	Bipolar (Series) Unipolar	0.2 0.16	28 22	0.28 0.4	13 9.6	48 24	60 15	35×10 ⁻⁷	0.191	6	—
PK243-03AA PK243-03BA	Bipolar (Series) Unipolar	0.2 0.16	28 22	0.22 0.31	17 12	77 38.5	84 21	35×10 ⁻⁷	0.191	6	—
PK244-01AA PK244-01BA PK244-01AAR □	Bipolar (Series) Unipolar	0.33 0.26	46 36	0.85 1.2	5.6 4	6.6 3.3	12.8 3.2	54×10 ⁻⁷	0.3	6	UMK244 □ A/ CMK244 □ PA/ CMK244APA-R □
PK244-02AA PK244-02BA	Bipolar (Series) Unipolar	0.33 0.26	46 36	0.57 0.8	8.6 6	15 7.5	26.8 6.7	54×10 ⁻⁷	0.3	6	—
PK244-03AA PK244-03BA	Bipolar (Series) Unipolar	0.33 0.26	46 36	0.28 0.4	17 12	60 30	120 30	54×10 ⁻⁷	0.3	6	—
PK244-04AA PK244-04BA	Bipolar (Series) Unipolar	0.33 0.26	46 36	0.14 0.2	34 24	240 120	428 107	54×10 ⁻⁷	0.3	6	—
PK245-01AA PK245-01BA PK245-01AAR □	Bipolar (Series) Unipolar	0.43 0.32	61 45	0.85 1.2	5.6 4	6.6 3.3	11.2 2.8	68×10 ⁻⁷	0.37	6	UMK245 □ A/ CMK245 □ PA/ CMK245APA-R □
PK245-02AA PK245-02BA	Bipolar (Series) Unipolar	0.43 0.32	61 45	0.57 0.8	8.6 6	15 7.5	28.4 7.1	68×10 ⁻⁷	0.37	6	—
PK245-03AA PK245-03BA	Bipolar (Series) Unipolar	0.43 0.32	61 45	0.28 0.4	17 12	60 30	100 25	68×10 ⁻⁷	0.37	6	—

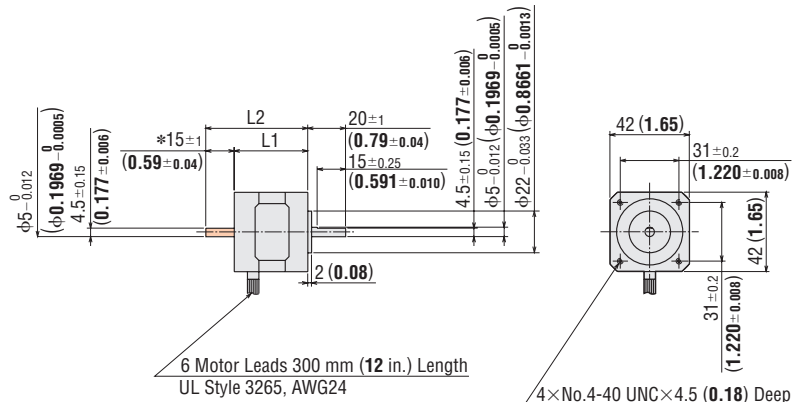
- Wirings and connections → Page A-288
- Encoder specifications → Page A-17
- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.
- Product Number Code → Page A-278

Dimensions Unit = mm (in.)

The dimensions of a motor with an encoder can be found on page A-19 or at www.orientalmotor.com.

Model	L1	L2	Mass kg (lb.)	DXF
PK243-0 □ AA	33 (1.30)	—	0.21 (0.46)	B081U
PK243-0 □ BA	—	48 (1.89)	—	—
PK244-0 □ AA	39 (1.54)	—	0.27 (0.59)	B082U
PK244-0 □ BA	—	54 (2.13)	—	—
PK245-0 □ AA	47 (1.85)	—	0.35 (0.77)	B083U
PK245-0 □ BA	—	62 (2.44)	—	—

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



* The length of machining on the double shaft model is 15±0.25 (0.591±0.010).

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

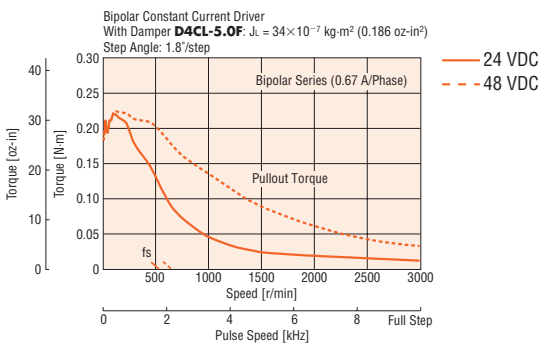
Introduction	AC Input Motor & Driver	Motor Only
AR	0.36° / Geared	PK
AS	0.36° / Geared	PK
RK	0.72° / Geared	PK
UMK	0.9° / 1.8° / Geared	PK
AR	0.36° / Geared	PK/PV
ASX	0.36° / Geared	Geared
CRK	0.36° / 0.72° / Geared	PK
CMK	0.9° / 1.8° / Geared	Geared
RBK	1.8° / Geared	Geared
PK	0.36°	Controllers SCX10 EMP400 /SG8030J
PK	0.72°	Accessories
PK	0.9°	
PK/PV	1.8°	
PK	Geared	

- 20 mm (0.79 in.)
- 28 mm (1.10 in.)
- 35 mm (1.38 in.)
- 42 mm (1.65 in.)
- 50 mm (1.97 in.)
- 56.4 mm (2.22 in.)
- 60 mm (2.36 in.)
- 85 mm (3.35 in.)
- 90 mm (3.54 in.)

Speed – Torque Characteristics

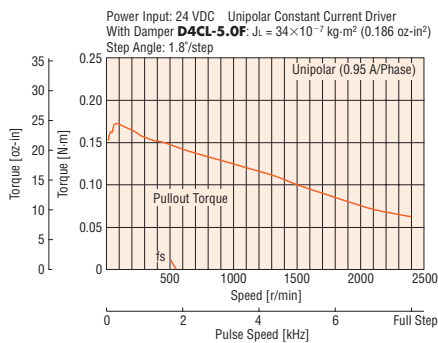
PK243-01 □ A / PK243-01AAR □

Bipolar (Series)



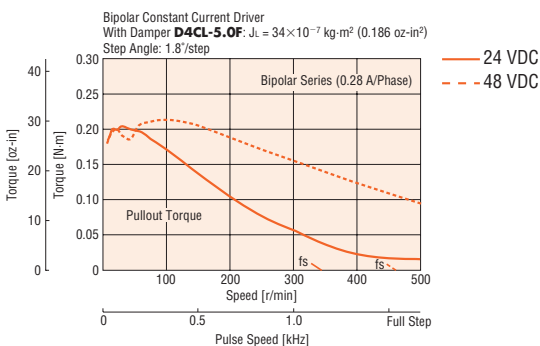
PK243-01 □ A / PK243-01AAR □

Unipolar



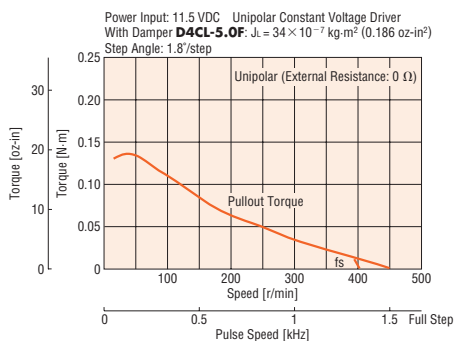
PK243-02 □ A

Bipolar (Series)



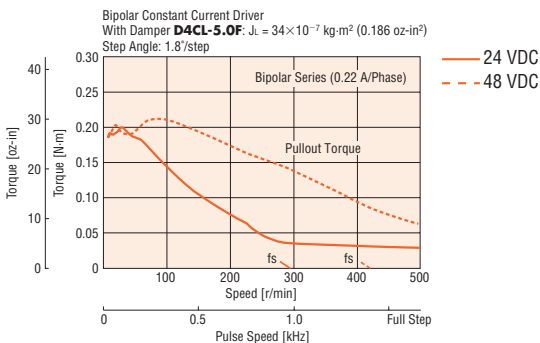
PK243-02 □ A

Unipolar



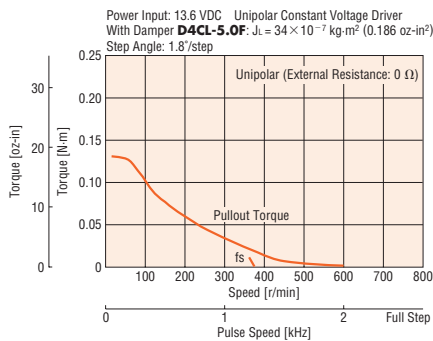
PK243-03 □ A

Bipolar (Series)



PK243-03 □ A

Unipolar



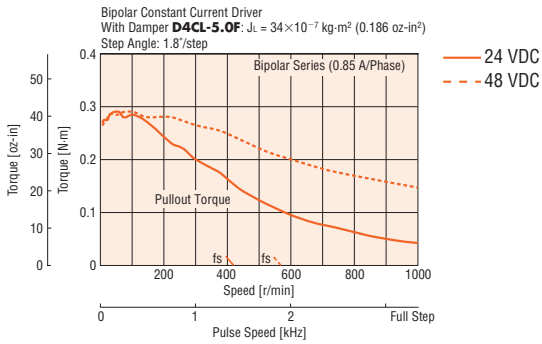
- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.

Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

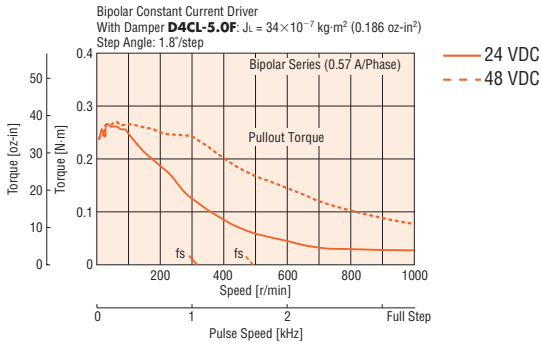
PK244-01□A/PK244-01AAR□

Bipolar (Series)



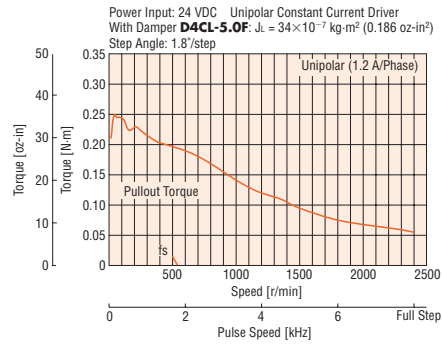
PK244-02□A

Bipolar (Series)



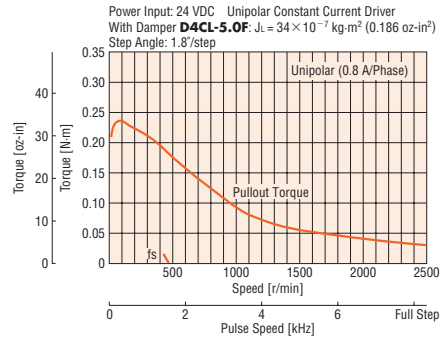
PK244-01□A/PK244-01AAR□

Unipolar



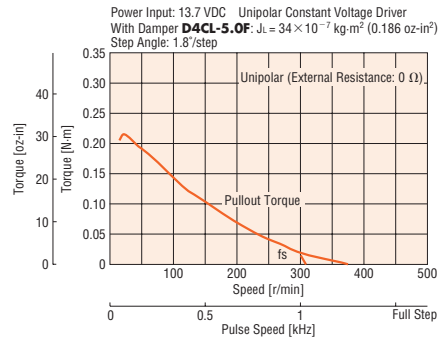
PK244-02□A

Unipolar



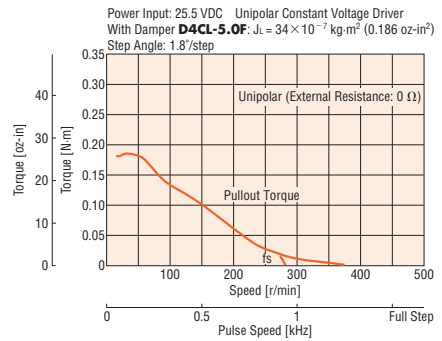
PK244-03□A

Unipolar



PK244-04□A

Unipolar



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.

Note

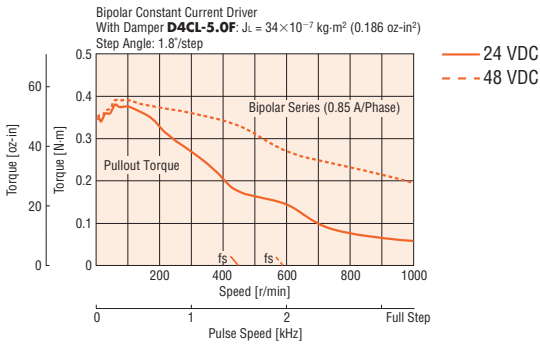
- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

Introduction	
AR	AC Input Motor & Driver
AS	0.36° / Geared
ASX	0.36° / Geared
CRK	0.36° / Geared
CMK	0.9° / 1.8° / Geared
RBK	1.8° / Geared
PK	0.36°
PK	0.72°
PK	0.9°
PK/PV	1.8°
PK	Geared
SCX10 / EMP400 / SG8030J	Controllers
	Accessories

Speed – Torque Characteristics

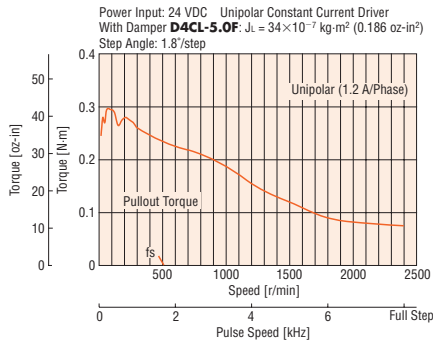
PK245-01□A/PK245-01AAR□

Bipolar (Series)



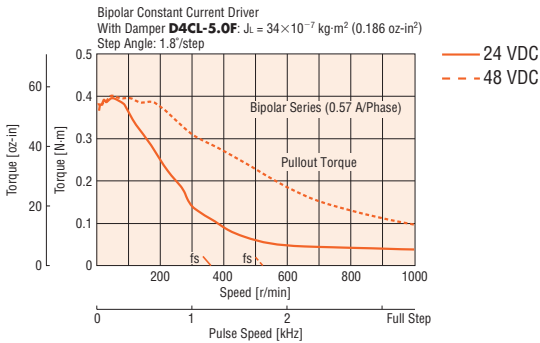
PK245-01□A/PK245-01AAR□

Unipolar



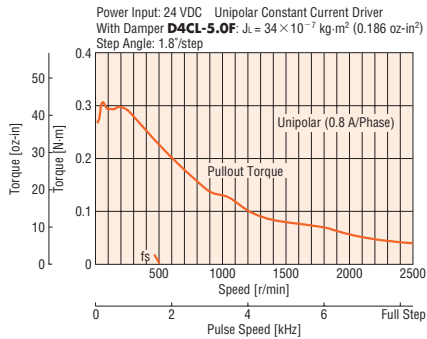
PK245-02□A

Bipolar (Series)



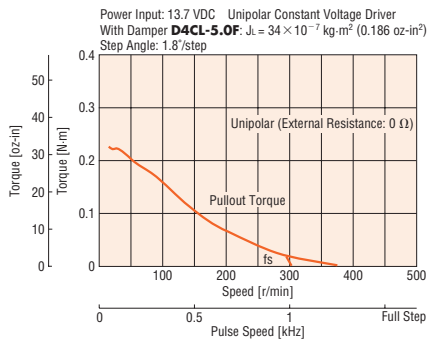
PK245-02□A

Unipolar



PK245-03□A

Unipolar



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.

Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
Be sure to keep the temperature of the motor case under 100°C (212°F).

20 mm
(0.79 in.)

28 mm
(1.10 in.)

35 mm
(1.38 in.)

42 mm
(1.65 in.)

50 mm
(1.97 in.)

56.4 mm
(2.22 in.)

60 mm
(2.36 in.)

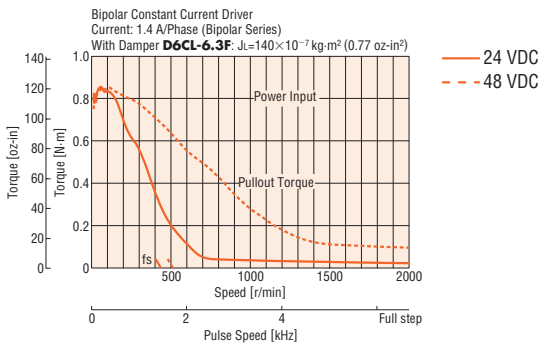
85 mm
(3.35 in.)

90 mm
(3.54 in.)

Speed – Torque Characteristics

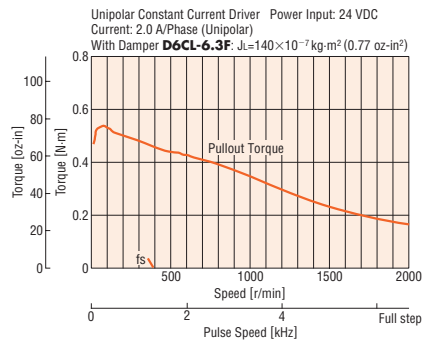
PK256-02□/PK256-02AR□

Bipolar (Series)



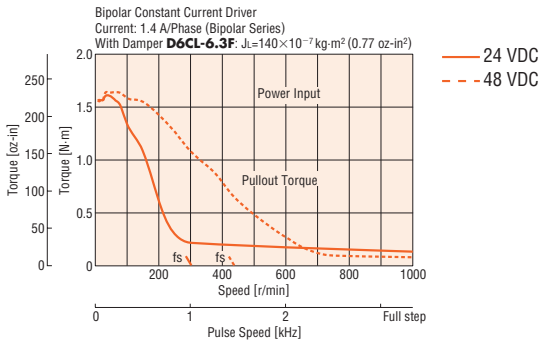
PK256-02□/PK256-02AR□

Unipolar



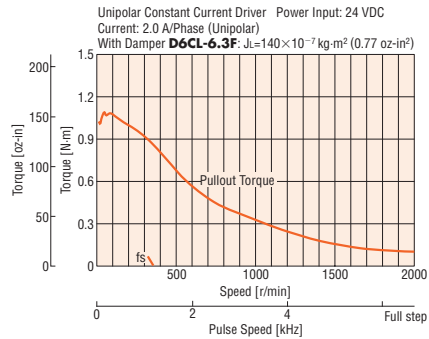
PK258-02□/PK258-02AR□

Bipolar (Series)



PK258-02□/PK258-02AR□

Unipolar



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.

Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
Be sure to keep the temperature of the motor case under 100°C (212°F).

□ 20 mm
(0.79 in.)

□ 28 mm
(1.10 in.)

□ 35 mm
(1.38 in.)

□ 42 mm
(1.65 in.)

□ 50 mm
(1.97 in.)

□ 56.4 mm
(2.22 in.)

□ 60 mm
(2.36 in.)

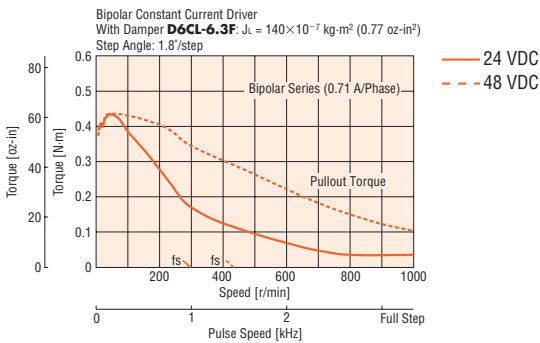
□ 85 mm
(3.35 in.)

□ 90 mm
(3.54 in.)

Speed – Torque Characteristics

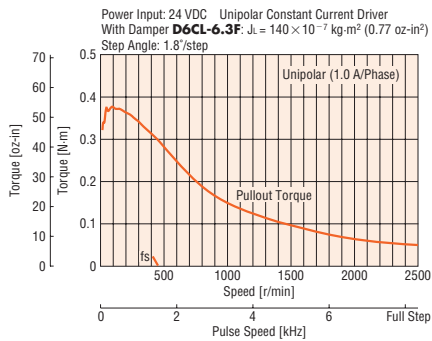
PK264-01

Bipolar (Series)



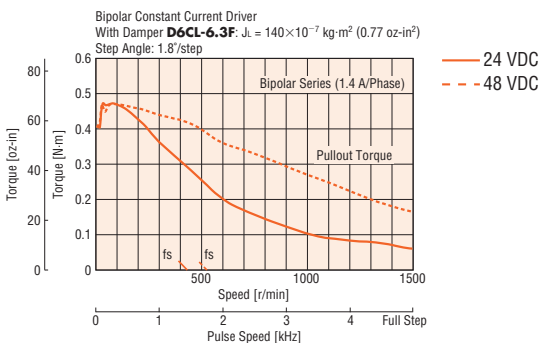
PK264-01

Unipolar



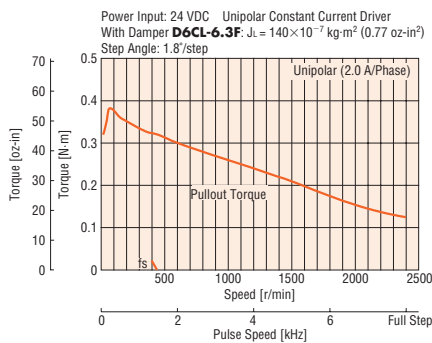
PK264-02 /PK264-02AR

Bipolar (Series)



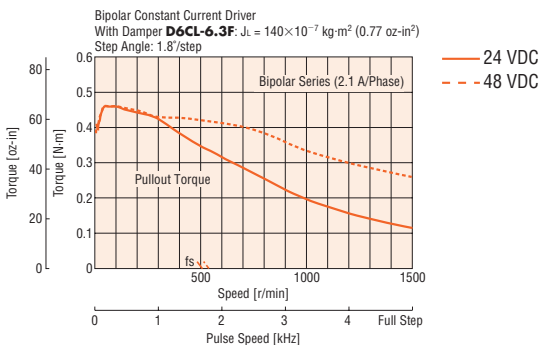
PK264-02 /PK264-02AR

Unipolar



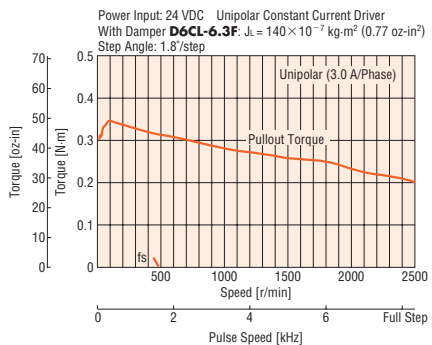
PK264-03

Bipolar (Series)



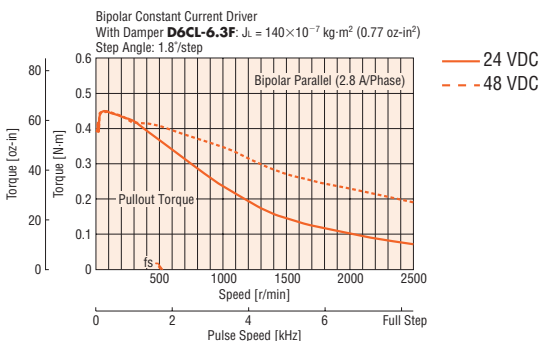
PK264-03

Unipolar



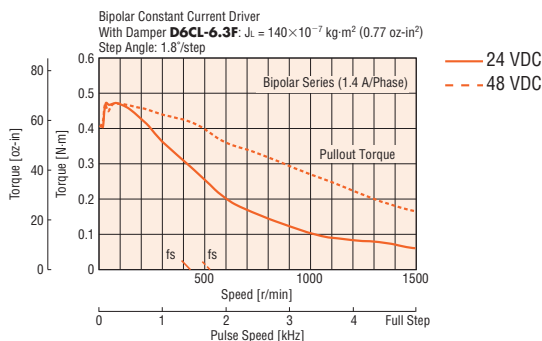
PK264-E2.0

Bipolar (Parallel)



PK264-E2.0

Bipolar (Series)



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
Enter the encoder code (**15**, **16**, **25** or **26**) in the box (▣) within the model name.

Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
Be sure to keep the temperature of the motor case under 100°C (212°F).

20 mm
(0.79 in.)

28 mm
(1.10 in.)

35 mm
(1.38 in.)

42 mm
(1.65 in.)

50 mm
(1.97 in.)

56.4 mm
(2.22 in.)

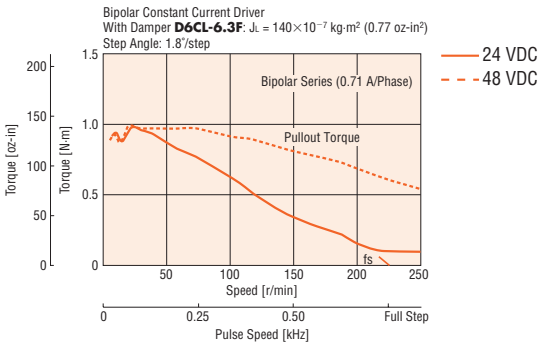
60 mm
(2.36 in.)

85 mm
(3.35 in.)

90 mm
(3.54 in.)

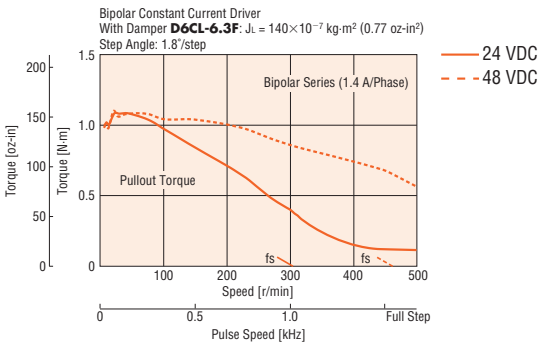
PK266-01

Bipolar (Series)



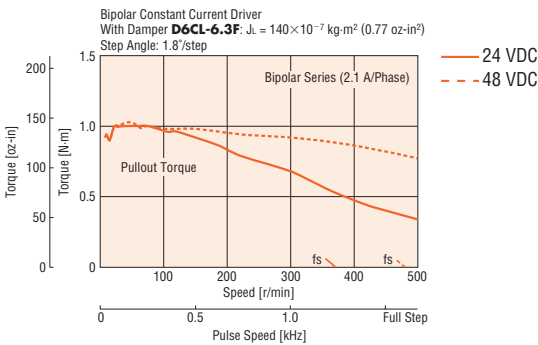
PK266-02 / PK266-02AR

Bipolar (Series)



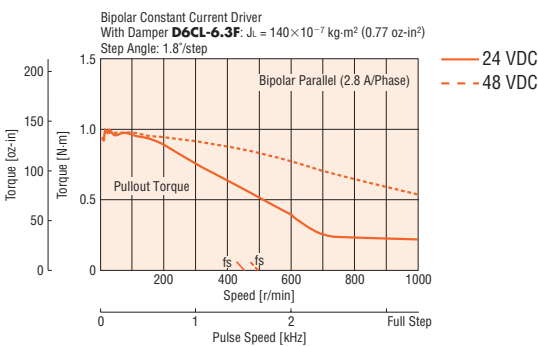
PK266-03

Bipolar (Series)



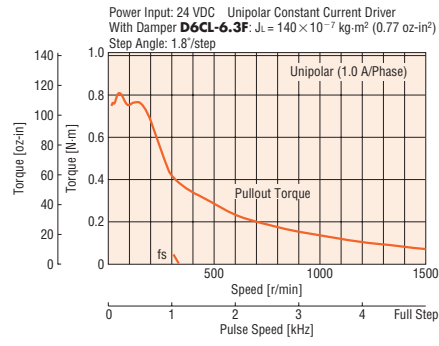
PK266-E2.0

Bipolar (Parallel)



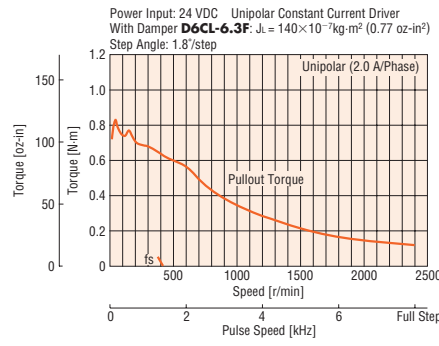
PK266-01

Unipolar



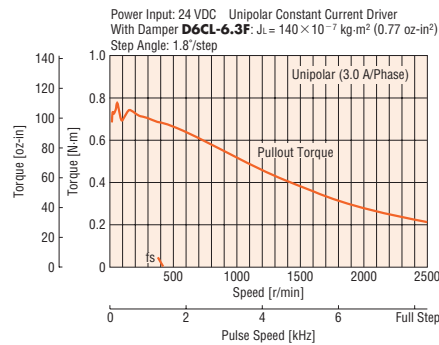
PK266-02 / PK266-02AR

Unipolar



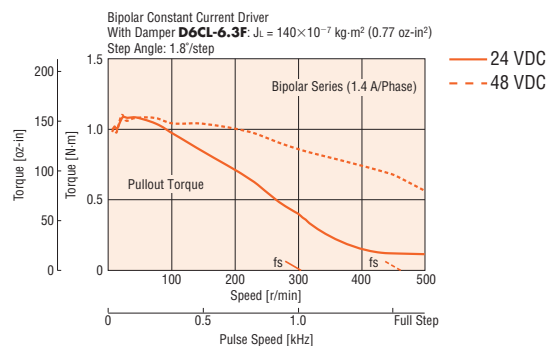
PK266-03

Unipolar



PK266-E2.0

Bipolar (Series)



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (▣) within the model name.

Note

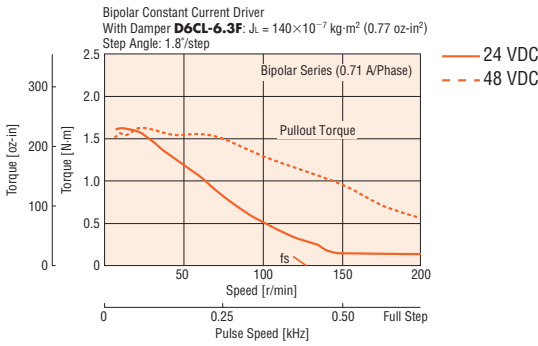
- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

Introduction	AC Input Motor & Driver	Motor Only	Controllers
AR	0.36° / Geared	PK	SCX10
AS	0.72° / Geared	PK	EMP400
RK	0.9° / 1.8° / Geared	PK	SG80301
UMK	0.36° / Geared	PK	
AR	0.36° / Geared	PK	
ASX	0.36° / Geared	PK	
CRK	0.36° / 0.72° / Geared	PK	
CMK	0.9° / 1.8° / Geared	PK	
RBK	1.8° / Geared	PK	
PK	0.36°	PK	
PK	0.72°	PK	
PK	0.9°	PK	
PK/PV	1.8°	PK	
PK	Geared	PK	
Accessories			

Speed – Torque Characteristics

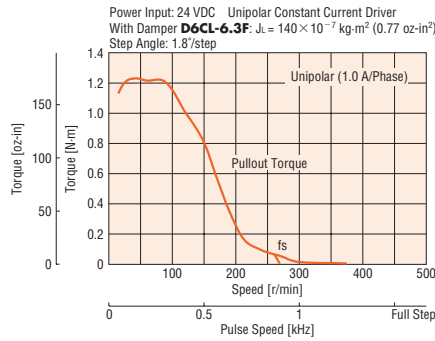
PK268-01

Bipolar (Series)



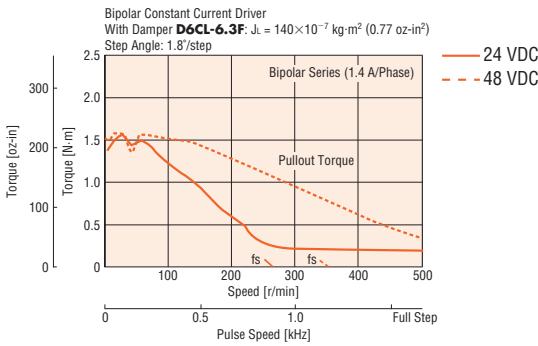
PK268-01

Unipolar



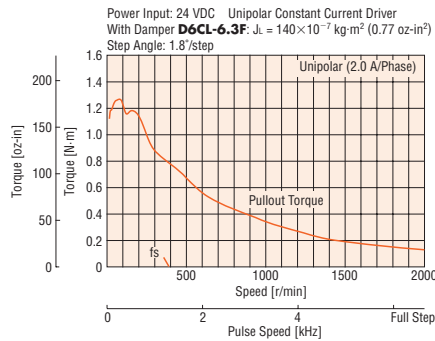
PK268-02/PK268-02AR

Bipolar (Series)



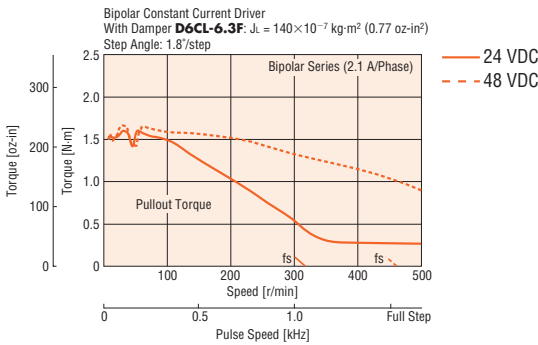
PK268-02/PK268-02AR

Unipolar



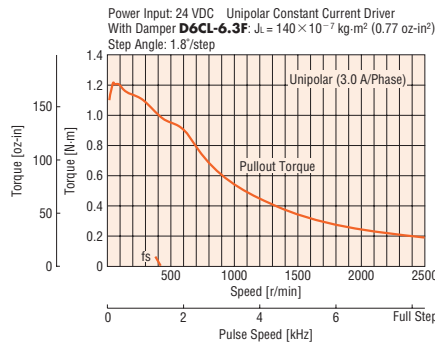
PK268-03

Bipolar (Series)



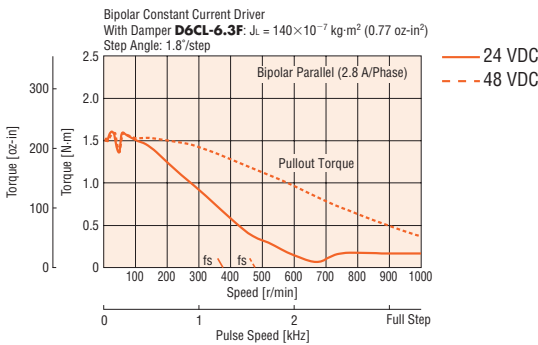
PK268-03

Unipolar



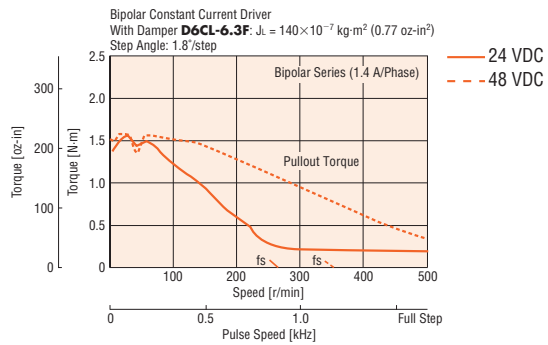
PK268-E2.0

Bipolar (Parallel)



PK268-E2.0

Bipolar (Series)



- Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.
- Enter the encoder code (**15**, **16**, **25** or **26**) in the box (□) within the model name.

Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

20 mm
(0.79 in.)

28 mm
(1.10 in.)

35 mm
(1.38 in.)

42 mm
(1.65 in.)

50 mm
(1.97 in.)

56.4 mm
(2.22 in.)

60 mm
(2.36 in.)

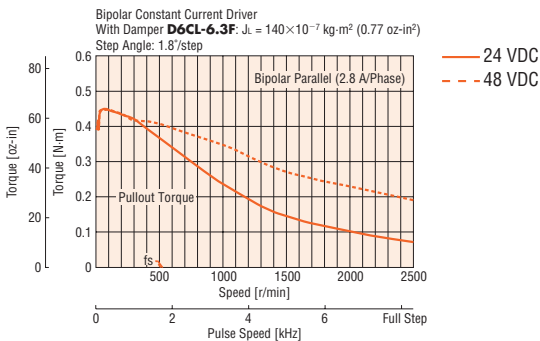
85 mm
(3.35 in.)

90 mm
(3.54 in.)

Speed – Torque Characteristics

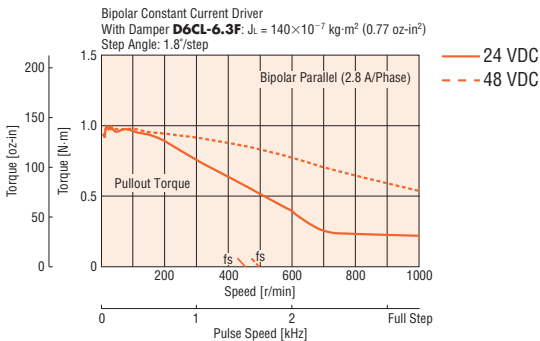
PK264DAT

Bipolar



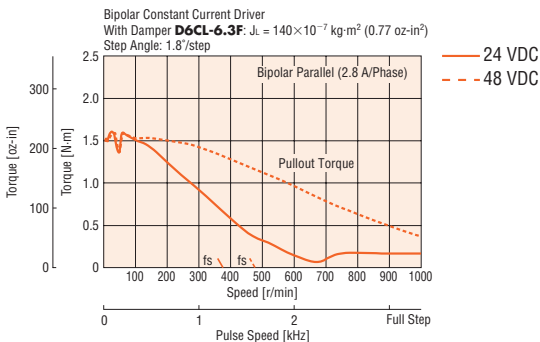
PK266DAT

Bipolar



PK268DAT

Bipolar



Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

20 mm
(0.79 in.)

28 mm
(1.10 in.)

35 mm
(1.38 in.)

42 mm
(1.65 in.)

50 mm
(1.97 in.)

56.4 mm
(2.22 in.)

60 mm
(2.36 in.)

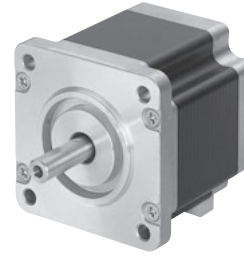
85 mm
(3.35 in.)

90 mm
(3.54 in.)

Step Angle 1.8°

Motor Frame Size 60 mm (2.36 in.)

PV Series



Specifications (RoHS)

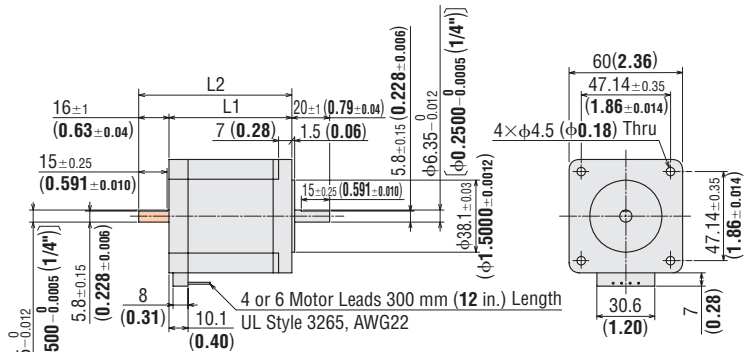
Model • Single Shaft • Double Shaft	Connection Type	Holding Torque		Rated Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J		Lead Wires
		N-m	oz-in					kg-m ²	oz-in ²	
PV264-D2.8AA PV264-D2.8BA	Bipolar	1.06	150	2.8	2.1	0.73	1.8	280×10 ⁻⁷	1.53	4
PV264-02AA PV264-02BA	Bipolar (Series)	1.06	150	1.4	4.1	2.92	7.2	280×10 ⁻⁷	1.53	6
	Unipolar	0.75	106	2	2.9	1.46	1.8			
PV266-D2.8AA PV266-D2.8BA	Bipolar	1.75	240	2.8	2.8	1	3.05	450×10 ⁻⁷	2.5	4
PV266-02AA PV266-02BA	Bipolar (Series)	1.75	240	1.4	5.6	4	12.2	450×10 ⁻⁷	2.5	6
	Unipolar	1.35	191	2	4	2	3.05			
PV267-D2.8AA PV267-D2.8BA	Bipolar	2.2	310	2.8	3.4	1.2	3.54	570×10 ⁻⁷	3.1	4
PV267-02AA PV267-02BA	Bipolar (Series)	2.2	310	1.4	6.7	4.8	14.2	570×10 ⁻⁷	3.1	6
	Unipolar	1.7	240	2	4.8	2.4	3.54			
PV269-D2.8AA PV269-D2.8BA	Bipolar	3.1	440	2.8	4.2	1.49	5.7	900×10 ⁻⁷	4.9	4
PV269-02AA PV269-02BA	Bipolar (Series)	3.1	440	1.4	8.3	5.96	22.8	900×10 ⁻⁷	4.9	6
	Unipolar	2.2	310	2	6	2.98	5.7			

● Wirings and connections → Page A-288

Dimensions Unit = mm (in.)

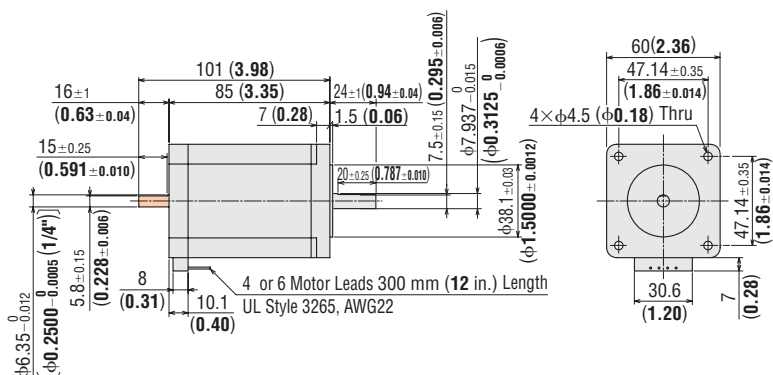
● PV264, PV266, PV267

Model	L1	L2	Mass kg (lb.)	DXF
PV264-D2.8AA PV264-02AA	43.5 (1.71)	—	0.6 (1.3)	B279U
PV264-D2.8BA PV264-02BA		59.5 (2.34)		
PV266-D2.8AA PV266-02AA	54 (2.13)	—	0.83 (1.8)	B232U
PV266-D2.8BA PV266-02BA		70 (2.76)		
PV267-D2.8AA PV267-02AA	65 (2.56)	—	1.02 (2.2)	B813U
PV267-D2.8BA PV267-02BA		81 (3.19)		



● PV269

Model	Mass kg (lb.)	DXF
PV269-D2.8AA PV269-02AA	1.43 (3.1)	B814U
PV269-D2.8BA PV269-02BA		



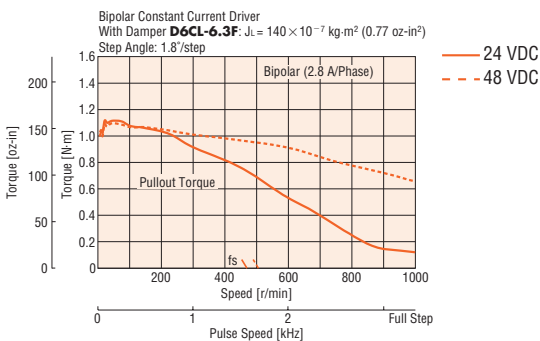
● These dimensions are for the double shaft models. For the single shaft models, ignore the orange () areas.

Introduction	AC Input Motor & Driver	Motor Only
AR DSTEP /Geared	0.36°	1.8°
AS DSTEP	0.72°	0.9°
RK /Geared	0.9°/1.8°	0.36°
UMK /Geared	0.36°	0.72°
AR DSTEP /Geared	0.36°	0.9°/1.8°
ASX DSTEP	0.36°	1.8°
CRK /Geared	0.36°/0.72°	0.36°
CMK /Geared	0.9°/1.8°	0.72°
RBK /Geared	1.8°	0.9°
PK	0.36°	1.8°
PK	0.72°	Geared
PK	0.9°	Geared
PK/PV	1.8°	Geared
PK	Geared	Controllers SCX10 EMP400 /SG80301
Accessories		

Speed – Torque Characteristics

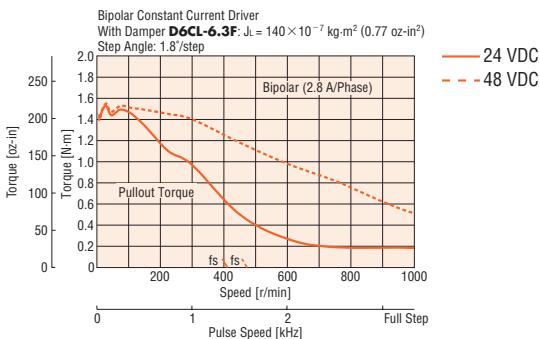
PV264-D2.8□A

Bipolar



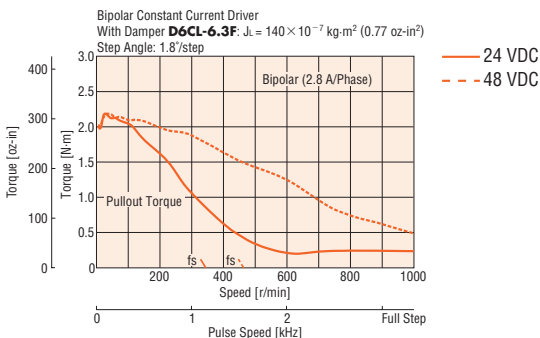
PV266-D2.8□A

Bipolar



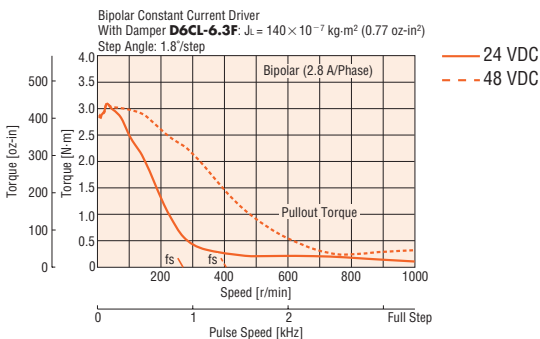
PV267-D2.8□A

Bipolar



PV269-D2.8□A

Bipolar



● Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.

Note

● Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
Be sure to keep the temperature of the motor case under 100°C (212°F).

□ 20 mm
(0.79 in.)

□ 28 mm
(1.10 in.)

□ 35 mm
(1.38 in.)

□ 42 mm
(1.65 in.)

□ 50 mm
(1.97 in.)

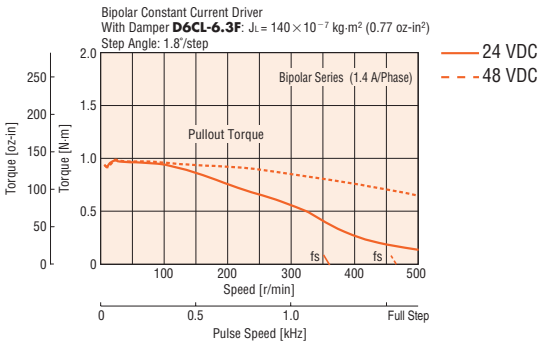
□ 56.4 mm
(2.22 in.)

□ 60 mm
(2.36 in.)

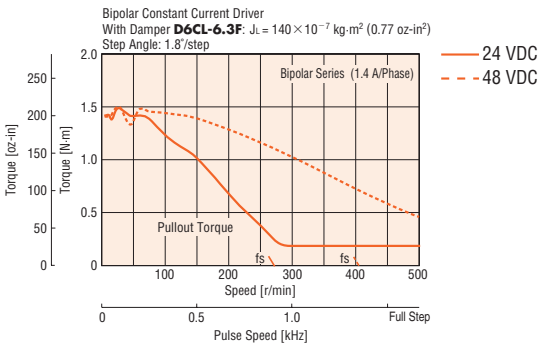
□ 85 mm
(3.35 in.)

□ 90 mm
(3.54 in.)

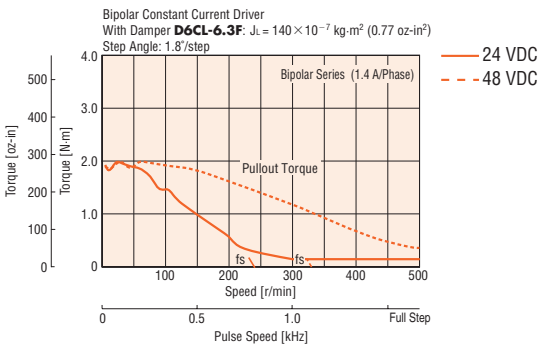
PV264-02□A Bipolar (Series)



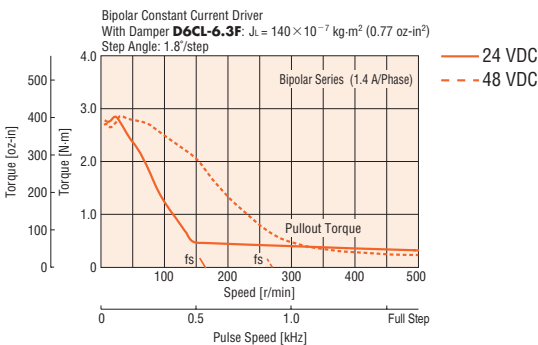
PV266-02□A Bipolar (Series)



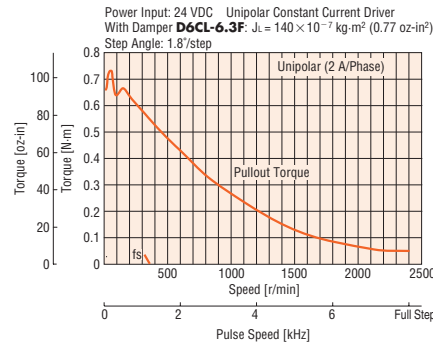
PV267-02□A Bipolar (Series)



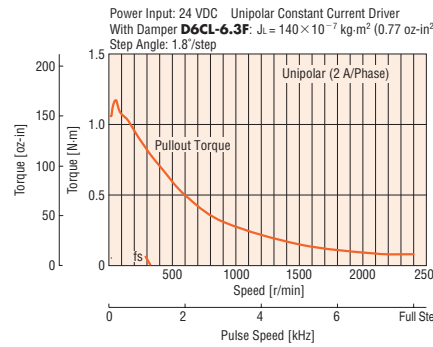
PV269-02□A Bipolar (Series)



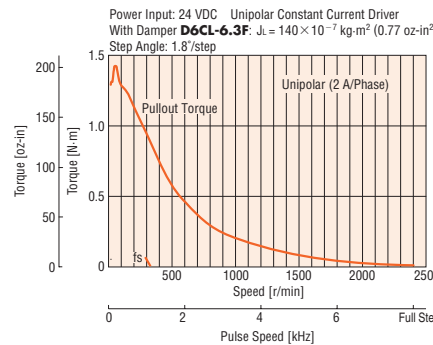
PV264-02□A Unipolar



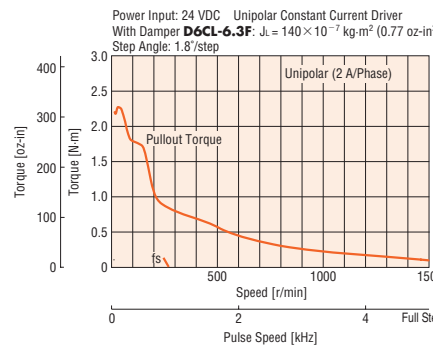
PV266-02□A Unipolar



PV267-02□A Unipolar



PV269-02□A Unipolar



● Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.

Note

● Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
Be sure to keep the temperature of the motor case under 100°C (212°F).

Introduction	
AR	0.36° / Geared
AS	0.36° / Geared
RK	0.72° / Geared
UMK	0.9°/1.8° / Geared
AR	0.36° / Geared
ASX	0.36° / Geared
CRK	0.36°/0.72° / Geared
CMK	0.9°/1.8° / Geared
RBK	1.8° / Geared
PK	0.36°
PK	0.72°
PK	0.9°
PK/PV	1.8°
PK	Geared
SCX10 / EMP400 / SG8030J	Controllers
	Accessories

Step Angle 1.8°

Motor Frame Size 85 mm (3.35 in.)

PK Series Standard Type



Specifications (RoHS)

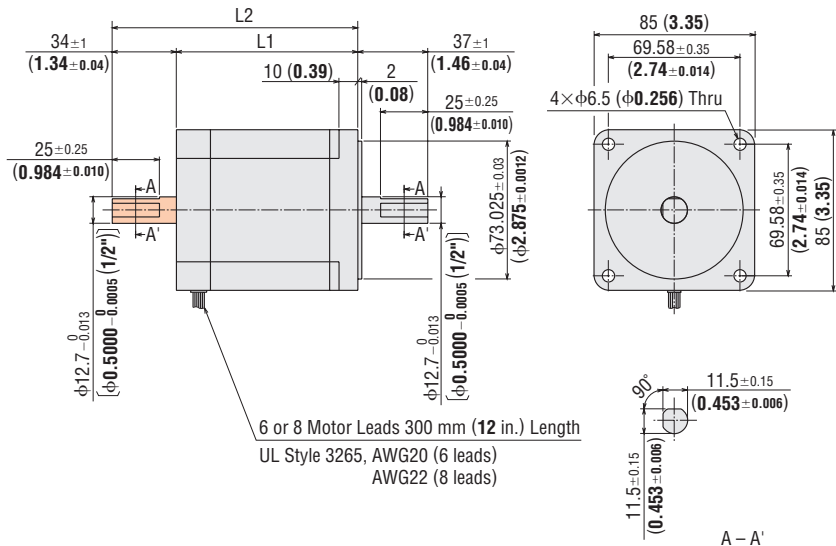
Model • Single Shaft • Double Shaft	Connection Type	Holding Torque		Rated Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J		Lead Wires
		N-m	oz-in					kg-m ²	oz-in ²	
PK296-01AA PK296-01BA	Bipolar (Series)	3.1	440	1.4	6.2	4.4	30.8	1400×10 ⁻⁷	7.7	6
	Unipolar	2.2	310	2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

● Wirings and connections → Page A-288

Dimensions Unit = mm (in.)

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

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

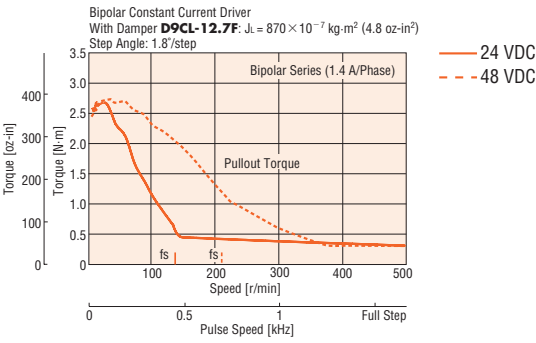


● These dimensions are for the double shaft models. For the single shaft models, ignore the orange (□) area.

Speed – Torque Characteristics

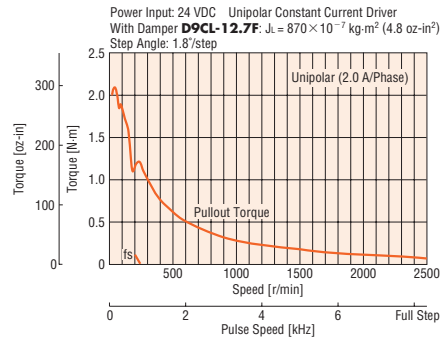
PK296-01□A

Bipolar (Series)



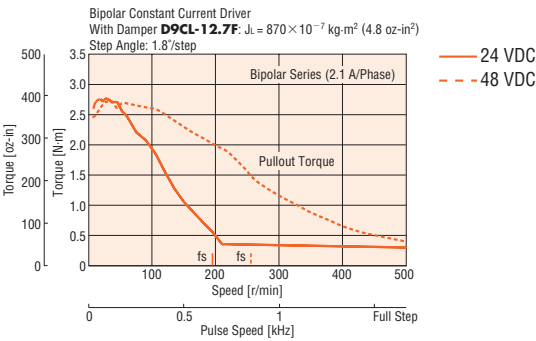
PK296-01□A

Unipolar



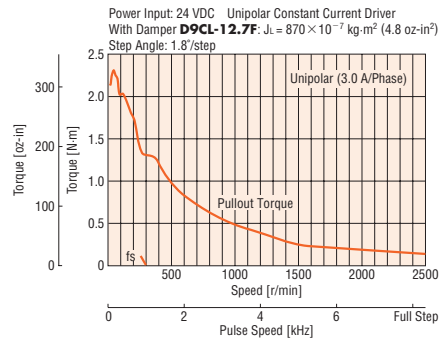
PK296-02□A

Bipolar (Series)



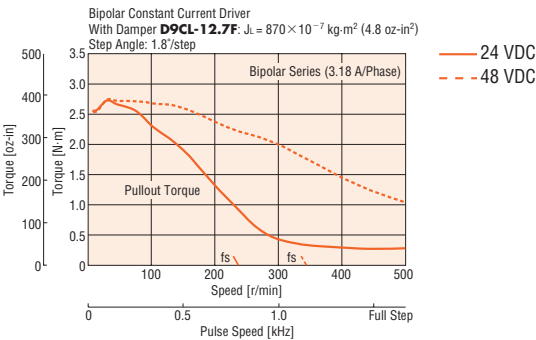
PK296-02□A

Unipolar



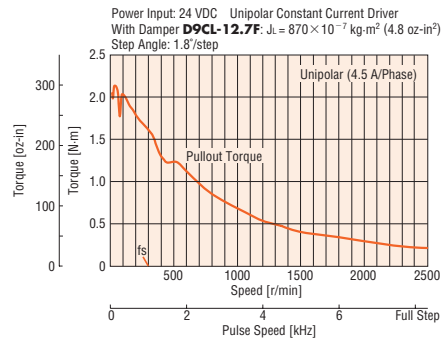
PK296-03□A

Bipolar (Series)



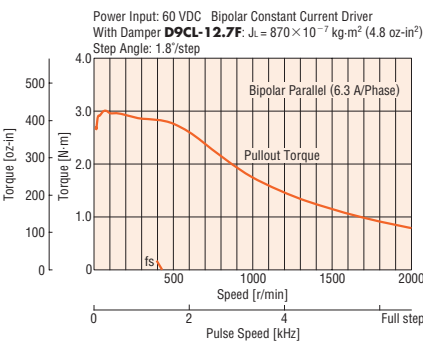
PK296-03□A

Unipolar



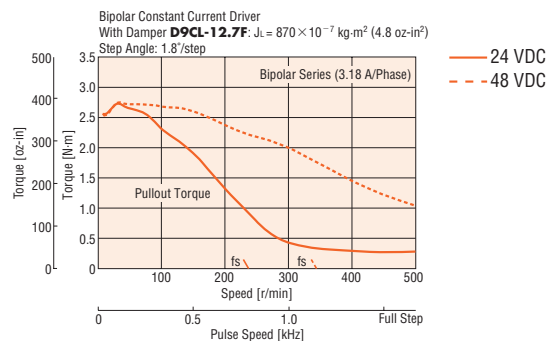
PK296-F4.5□

Bipolar (Parallel)



PK296-F4.5□

Bipolar (Series)



● Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.

Note

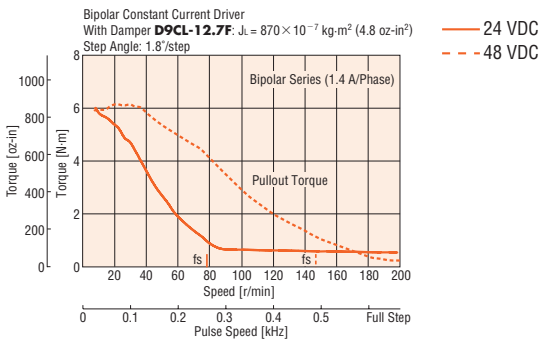
● Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

Introduction	
AR	AC Input Motor & Driver
AS	0.36° / Geared
ASX	0.36° / Geared
CRK	0.36° / Geared
CMK	0.9° / 1.8° / Geared
RBK	1.8° / Geared
PK	0.36°
PK	0.72°
PK	0.9°
PK/PV	1.8°
PK	Geared
SCX10 / EMP400 / SG80301	Controllers
	Accessories

Speed – Torque Characteristics

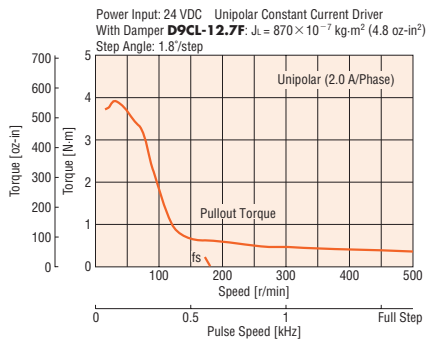
PK299-01□A

Bipolar (Series)



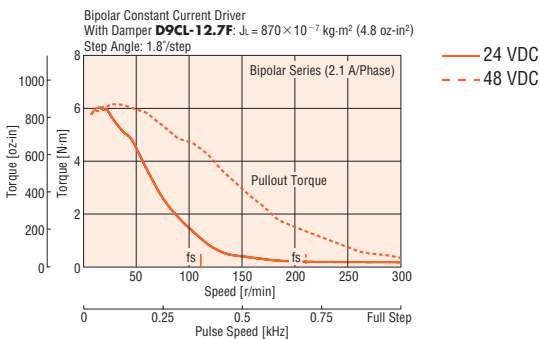
PK299-01□A

Unipolar



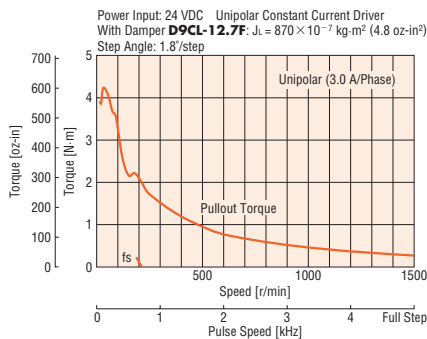
PK299-02□A

Bipolar (Series)



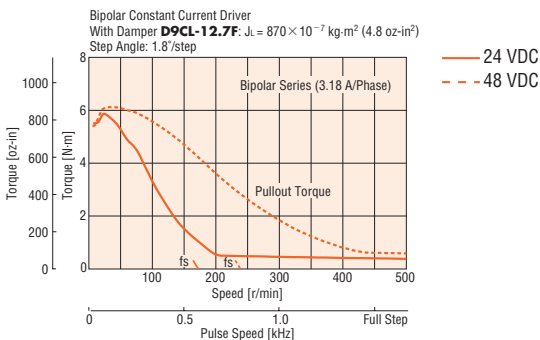
PK299-02□A

Unipolar



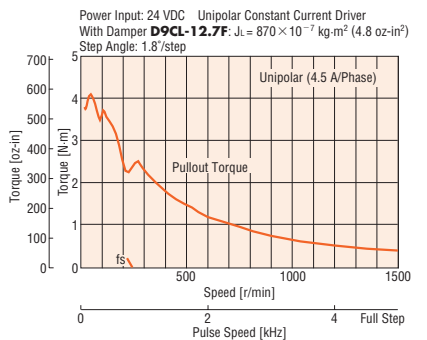
PK299-03□A

Bipolar (Series)



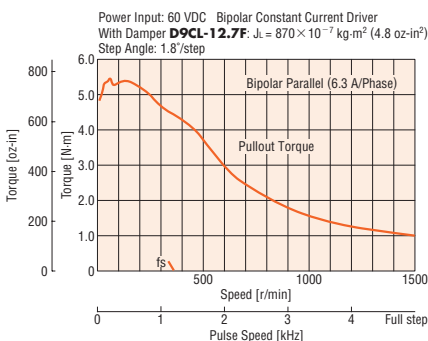
PK299-03□A

Unipolar



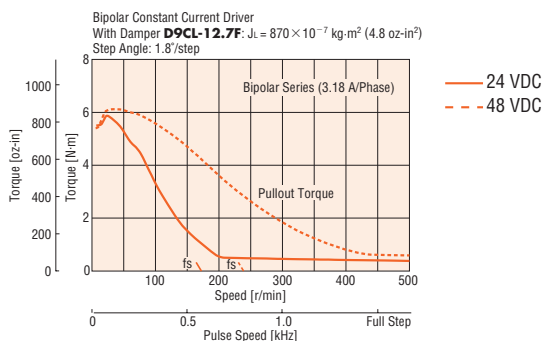
PK299-F4.5□

Bipolar (Parallel)



PK299-F4.5□

Bipolar (Series)



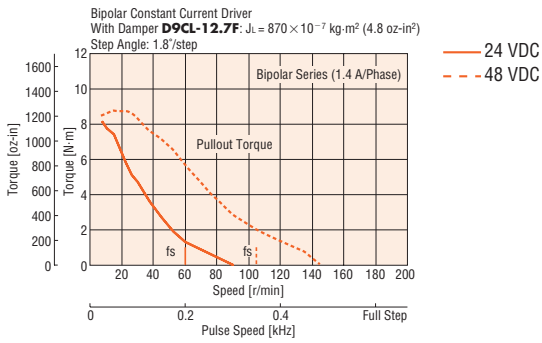
● Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.

Note

● Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions.
Be sure to keep the temperature of the motor case under 100°C (212°F).

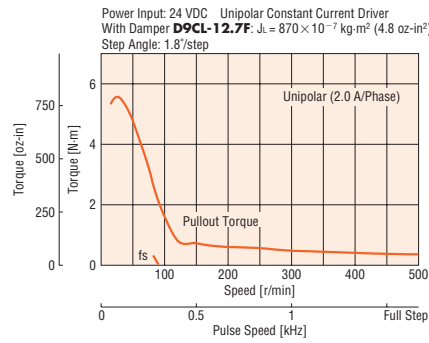
PK2913-01□A

Bipolar (Series)



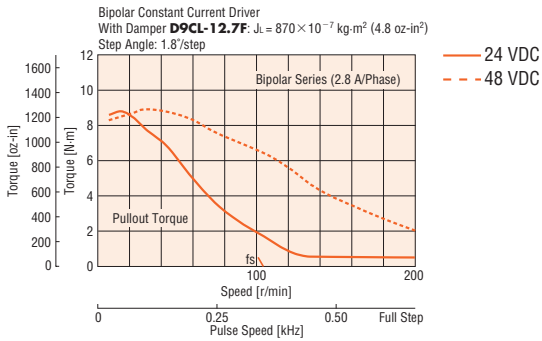
PK2913-01□A

Unipolar



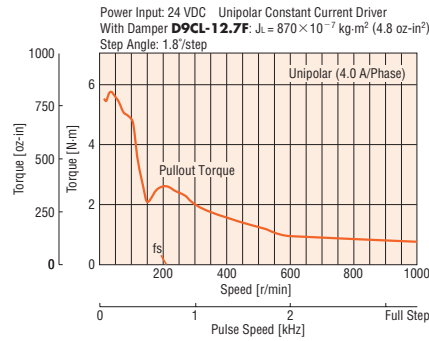
PK2913-02□A

Bipolar (Series)



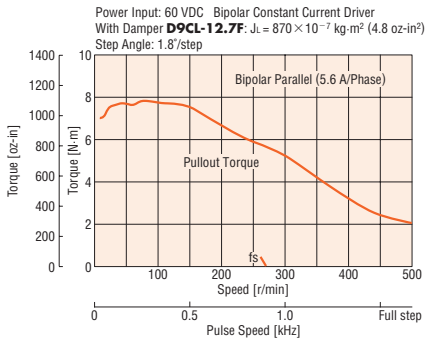
PK2913-02□A

Unipolar



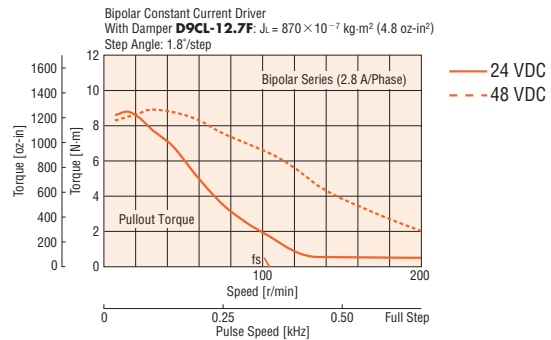
PK2913-F4.0□

Bipolar (Parallel)



PK2913-F4.0□

Bipolar (Series)



● Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name.

Note

● Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

Introduction	
AR	AC Input Motor & Driver
AS	0.36° / Geared
ASX	0.36° / Geared
CRK	0.36° / Geared
CMK	0.9° / 1.8° / Geared
RBK	1.8° / Geared
PK	0.36°
PK	0.72°
PK	0.9°
PK/PV	1.8°
PK	Geared
SCX10 / EMP400 / SG8030J	Controllers
	Accessories

Step Angle 1.8°

Motor Frame Size 85 mm (3.35 in.)

PK Series Standard Type Terminal Box



Specifications RoHS

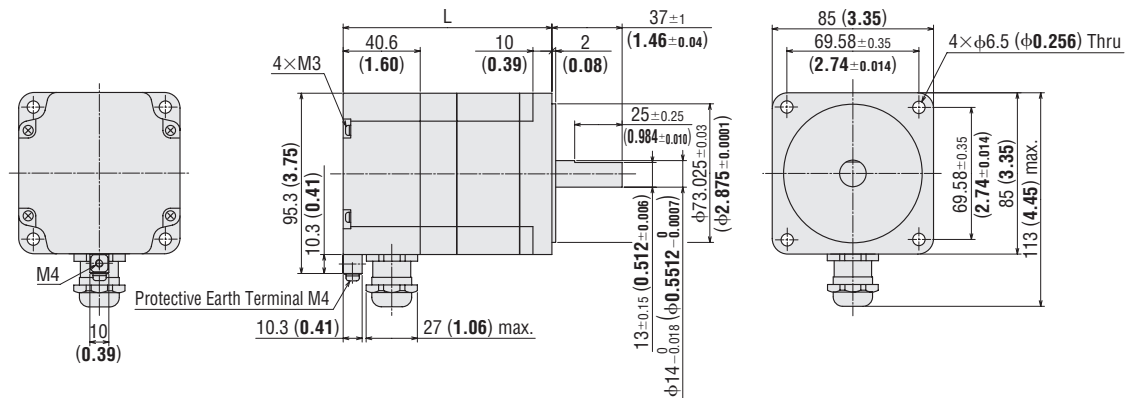


Model • Single Shaft	Connection Type	Holding Torque		Rated Current A/phase	Voltage VDC	Resistance Ω/phase	Inductance mH/phase	Rotor Inertia J		Lead Wires (Terminals)	Corresponding DC-Input Motor & Driver Package
		N-m	oz-in					kg-m ²	oz-in ²		
PK296EAT	Bipolar (Parallel)	3.1	440	6.3	1.4	0.24	1.5	1400×10 ⁻⁷	7.7	8	RBK296T
	Bipolar (Series)	3.1	440	3.18	2.8	0.96	6.0				
	Unipolar	2.2	310	4.5	2	0.48	1.5				
PK299EAT	Bipolar (Parallel)	6.2	880	6.3	1.9	0.33	2.5	2700×10 ⁻⁷	14.8	8	RBK299T
	Bipolar (Series)	6.2	880	3.18	3.9	1.32	10.0				
	Unipolar	4.4	620	4.5	2.8	0.66	2.5				
PK2913EAT	Bipolar (Parallel)	9.3	1320	5.6	2.6	0.49	4.2	4000×10 ⁻⁷	22	8	RBK2913T
	Bipolar (Series)	9.3	1320	2.8	5.3	1.94	16.8				
	Unipolar	6.6	930	4	3.8	0.97	4.2				

- Wirings and connections → Page A-288
- Degree of protection: IP65*
- *Excluding the gap between the shaft and the flange.

Dimensions Unit = mm (in.)

Model	L	Mass kg (lb.)	DXF
PK296EAT	110 (4.33)	2.1 (4.6)	B379
PK299EAT	140 (5.51)	3.2 (7)	B380
PK2913EAT	170 (6.69)	4.3 (9.5)	B381

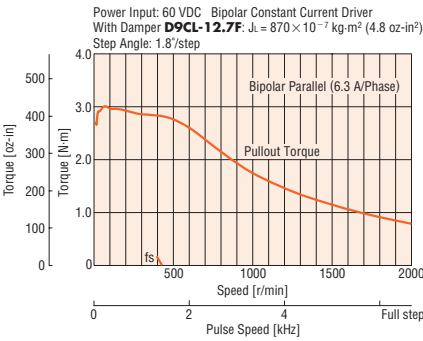


● Use cable (VCT) with a diameter of φ7~φ13 mm (φ0.28~φ0.51 in.). A connection cable is available as an accessory (sold separately). → Page A-409

Speed – Torque Characteristics

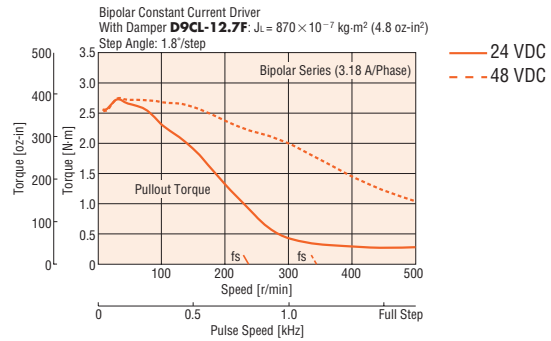
PK296EAT

Bipolar (Parallel)



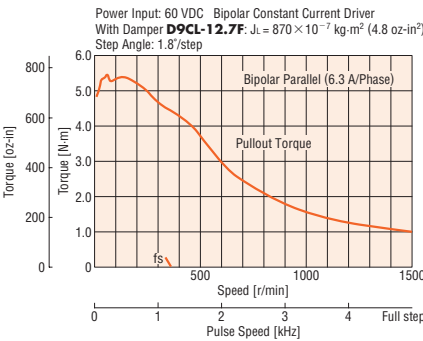
PK296EAT

Bipolar (Series)



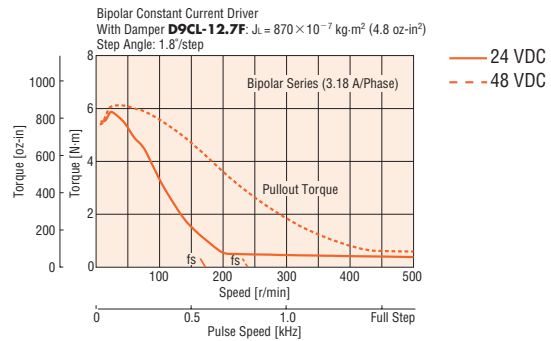
PK299EAT

Bipolar (Parallel)



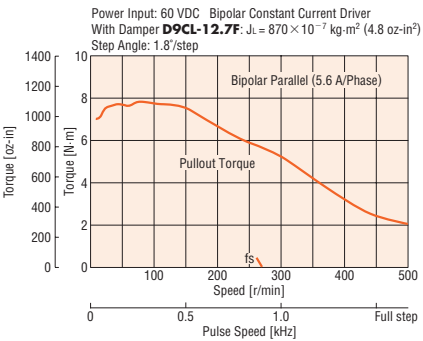
PK299EAT

Bipolar (Series)



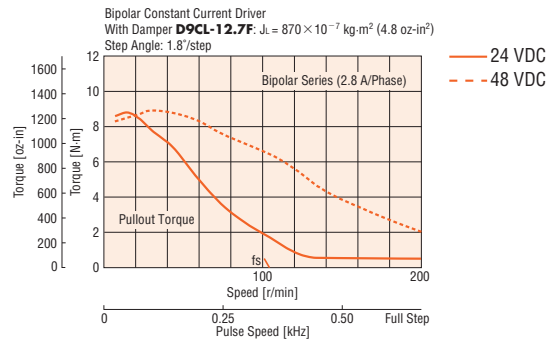
PK2913EAT

Bipolar (Parallel)



PK2913EAT

Bipolar (Series)



Note

- Pay attention to heat dissipation from motor as there will be a considerable amount of heat under certain conditions. Be sure to keep the temperature of the motor case under 100°C (212°F).

Introduction	
AR	DC Input Motor & Driver
AS	0.36° / Geared / Geared
RK	0.72° / Geared
UMK	0.9°/1.8° / Geared
AR	DC Input Motor & Driver
ASX	0.36° / Geared / Geared
CRK	0.36°/0.72° / Geared
CMK	0.9°/1.8° / Geared
RBK	1.8° / Geared
PK	0.36°
PK	0.72°
PK	0.9°
PK/PV	1.8°
PK	Geared
SCX10 / EMP400 / SG80301	Controllers
	Accessories