

# Step Angle 1.8° Frame Size 85 mm (8 lead wires)

## Standard Type

### Specifications RoHS

Product Name	Connection Type	Maximum Holding Torque	Rotor Inertia	Rated Current	Voltage	Resistance per Phase	Inductance	Basic Step Angle	Wirings and Connections
		N·m	J: kg·m <sup>2</sup>	A/Phase	VDC	Ω/Phase	mH/Phase		(See Page A-334)
<b>PK296-E4.5A</b> <b>PK296-E4.5B</b>	Bipolar (Parallel)	3.1	1400×10 <sup>-7</sup>	6.3	1.4	0.24	1.5	1.8°	[6]
	Bipolar (Series)	3.1		3.18	2.8	0.96	6.0		[5]
	Unipolar	2.2		4.5	2	0.48	1.5		[4]
<b>PK299-E4.5A</b> <b>PK299-E4.5B</b>	Bipolar (Parallel)	6.2	2700×10 <sup>-7</sup>	6.3	1.9	0.33	2.5		[6]
	Bipolar (Series)	6.2		3.18	3.9	1.32	10.0		[5]
	Unipolar	4.4		4.5	2.8	0.66	2.5		[4]
<b>PK2913-E4.0A</b> <b>PK2913-E4.0B</b>	Bipolar (Parallel)	9.3	4000×10 <sup>-7</sup>	5.6	2.6	0.49	4.2		[6]
	Bipolar (Series)	9.3		2.8	5.3	1.94	16.8		[5]
	Unipolar	6.6		4	3.8	0.97	4.2		[4]

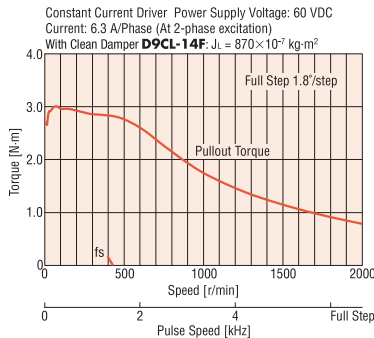
● **A** or **B** indicating motor shaft type is entered where the box □ is located within the product name.

● For the speed – torque characteristics of the motors in the table above, see the characteristics of the corresponding motor and driver package. If there is no corresponding package name, refer to the following characteristics.

### Speed – Torque Characteristics

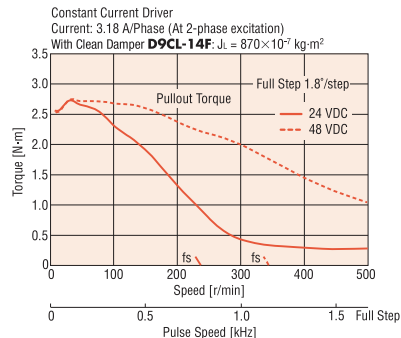
#### PK296-E4.5A/PK296-E4.5B

##### Bipolar (Parallel)



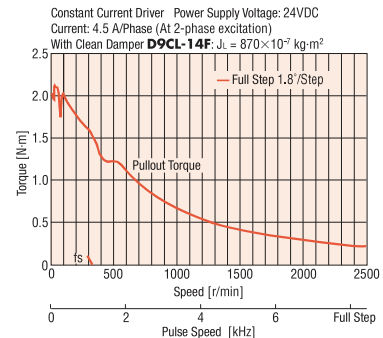
#### PK296-E4.5A/PK296-E4.5B

##### Bipolar (Series)



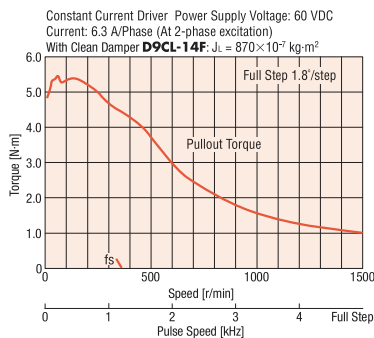
#### PK296-E4.5A/PK296-E4.5B

##### Unipolar



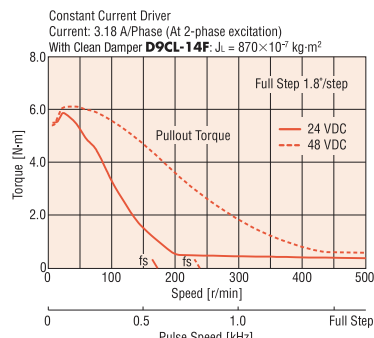
#### PK299-E4.5A/PK299-E4.5B

##### Bipolar (Parallel)



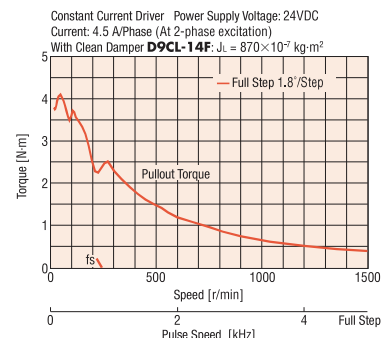
#### PK299-E4.5A/PK299-E4.5B

##### Bipolar (Series)



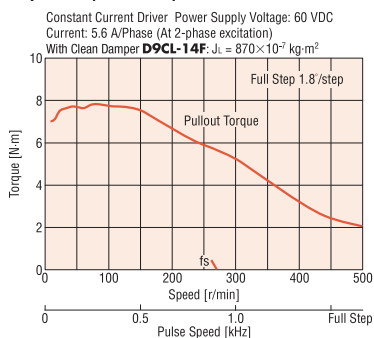
#### PK299-E4.5A/PK299-E4.5B

##### Unipolar



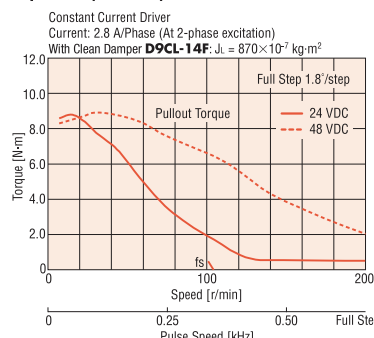
#### PK2913-E4.0A/PK2913-E4.0B

##### Bipolar (Parallel)



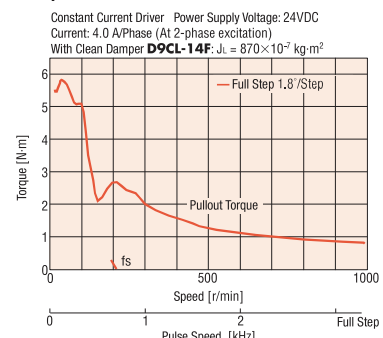
#### PK2913-E4.0A/PK2913-E4.0B

##### Bipolar (Series)



#### PK2913-E4.0A/PK2913-E4.0B

##### Unipolar

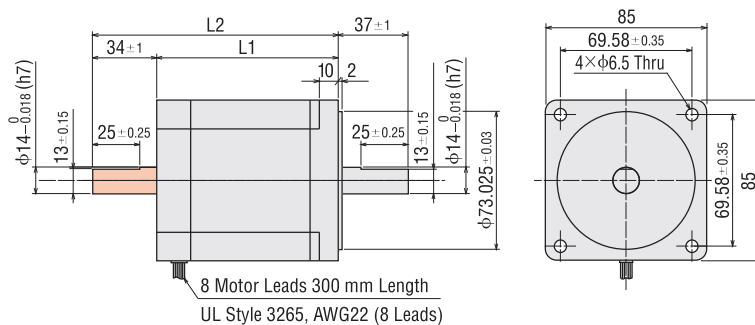


#### Note

● Depending on the driving conditions, a considerable amount of heat may be generated by the motor. Be sure to keep the motor case temperature at 100°C or less.

## Dimensions (Unit = mm)

Product Name	L1	L2	Mass kg
<b>PK296-E4.5A</b>	66	—	1.7
<b>PK296-E4.5B</b>		100	
<b>PK299-E4.5A</b>	96	—	2.8
<b>PK299-E4.5B</b>		130	
<b>PK2913-E4.0A</b>	126	—	3.8
<b>PK2913-E4.0B</b>		160	



● These dimensions are for double shaft models. For single shaft models, ignore the shaft in the shaded areas.

Introduction

0.36°/Geared  
AR  
AC Input Motor & Driver

0.72°/Geared  
RK  
AC Input Motor & Driver

0.36°/Geared  
AR  
AC Input Motor & Driver

0.36°/0.72°/  
Geared  
CRK  
DC Input Motor & Driver

1.8°/Geared  
RBK  
DC Input Motor & Driver

0.9°/1.8°/Geared  
CMK  
DC Input Motor & Driver

0.72°  
PK  
Motor Only

1.8°/Geared  
High-Torque  
PKD  
Motor Only

0.9°/1.8°/Geared  
PK  
Motor Only

Controllers  
SG8030JY

Accessories