ORIENTAL MOTOR U.S.A. Corp.
570 Alaska Avenue
Torrance, CA 90503
1-800-GO-VEXTA (468-3982)

Item # PK569PMA, 2.36 in. (60 mm) 5-Phase Stepper Motor

The High-Resolution, high-performance stepper motor offers superior performance, increased positional accuracy (2 Arc minutes - 0.034°) highest torque (1.3 ~ 1.5 times a standard), lowest vibration and lowest noise. Basic step angle is 0.36° (1,000 steps per rev).

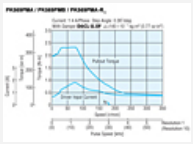
- Motor cable required for connection (see Accessories)
- DC Driver input type motor only

Web Price −

$163.00

Specifications | **Dimensions** | **Speed-Torque** | **Connection**

Specifications

Frame Size	2.36 in
Motor Length	3.43 in.
Basic Step Angle	0.36°
Speed-Torque Characteristics	 Speed-Torque Characteristics
Holding Torque	320 oz-in
Current per Phase	1.4 A/phase
Type	High-Resolution
Shaft/Gear Type	Round Shaft (No Gearhead)
Gear Type	No Gearhead
Motor Connection Type	Connector
Shaft	Single
Step Angle	0.36 °
Connection Type	New Pentagon (Bipolar)
Lead Wires	5
Rotor Inertia	5.3 oz-in²
RoHS Compliant	Yes

Safety Standards	UL CSA CE
Insulation Resistance	100 M Ω minimum under normal temperature and humidity, when measured by a 500 VDC megger between the windings and the motor casing.
Dielectric Strength	Sufficient to withstand 1.5 kV, 50 Hz or 60 Hz applied for one minute between the windings and casing, under normal temperature and humidity.
Temperature Rise	Temperature rise of the coil measured by the Change Resistance Method is 176°F (80°C) or less (at rated current, at standstill, five phases energized).
Insulation Class	Class B [266°F (130°C)], Recognized as Class A 221°F (105°C) by UL standard
Ambient Temperature Range	14°F ~ 122°F (-10°C ~ 50°C) (nonfreezing)
Ambient Humidity	85% or less (noncondensing)
Shaft Runout	0.002 in. (0.05 mm) T.I.R. at top of output shaft
Concentricity	0.003 in. (0.075 mm) T.I.R.
Perpendicularity	0.003 in. (0.075 mm) T.I.R.
Radial Play	0.001 in. (0.025 mm) max. of 1.12 lb. (5 N)
Axial Play	0.003 in. (0.075 mm) max. of 2.2 lb. (10 N)
Radial Load	0 in. from Shaft End = 20 lb 0.2 in. from Shaft End = 22 lb 0.39 in. from Shaft End = 29 lb 0.59 in. from Shaft End = 40 lb 0.79 in. from Shaft End = 60 lb
Axial Load	4.5 lb

Dimensions

Dimensions Unit = mm (inch)

Motor

◇**High-Resolution Type**

4 □60 mm (□2.36 in.)

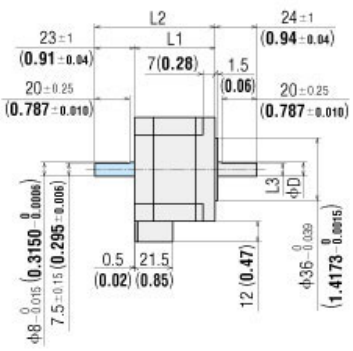
Model	Motor Model	L1	L2	L3	ϕD	Mass kg (lb.)
CRK564PMAP	PK564PMA	46.5 (1.83)	–	7.5±0.15 (0.295±0.006)	8 0 −0.015 (0.3150 0 −0.006)	0.65 (1.43)
CRK564PMBP	PK564PMB		69.5 (2.74)			
CRK566PMAP	PK566PMA	56 (2.20)	–			0.87 (1.91)
CRK566PMBP	PK566PMB		79 (3.11)			
CRK569PMAP	PK569PMA	87 (3.43)	–	9.5±0.15 (0.374±0.006)	10 0 −0.015 (0.3937 0 −0.006)	1.5 (3.3)
CRK569PMBP	PK569PMB		110 (4.33)			

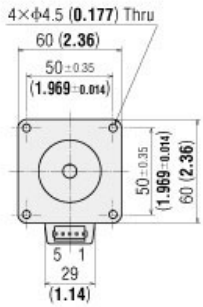
Each package model comes with a motor leadwire/connector assembly [0.6 m (2 ft.)] UL Style 3266, AWG22.

If you are purchasing only a motor for maintenance purpose, etc., motor leadwire/connector assembly and connector will not be supplied. Optional motor connector sets (sold separately) are available. ➜ Page 40

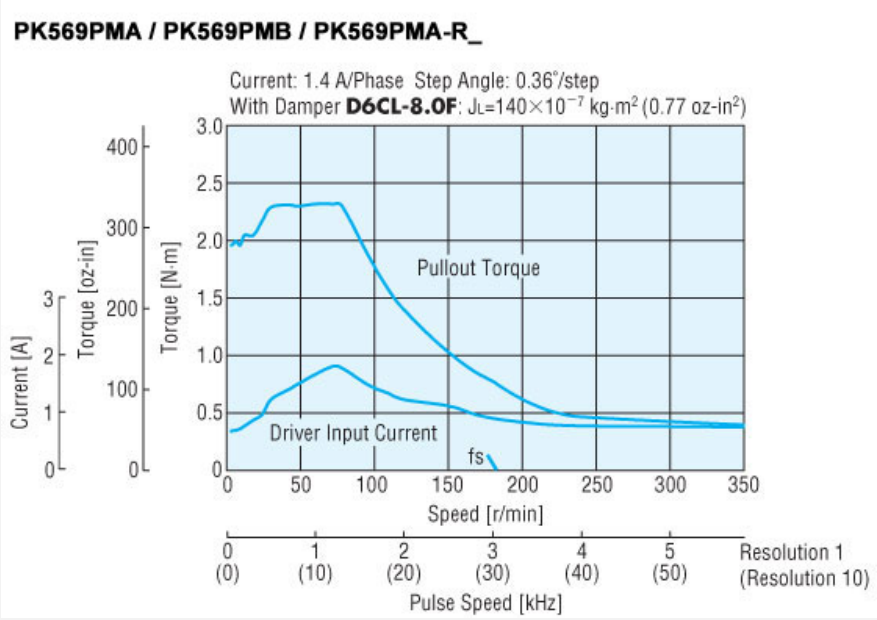
●Applicable Connector

Connector housing: 51144-0500 (MOLEX)
Contact: 50539-8100 (MOLEX)
Crimp tool: 57189-5000 (MOLEX)





Speed-Torque



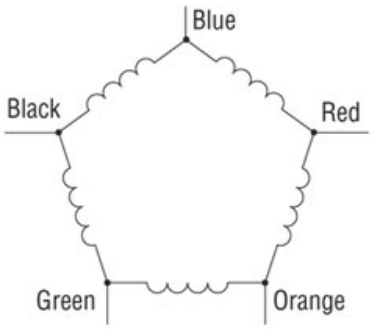
Connection

Wirings and Connections

PK Series - New Pentagon (Bipolar)

◇Wiring Connection Diagrams

5 Leads Bipolar Connection



[1] Quoted Ship Date for orders placed before 12:00 pm PST. Quantities may affect Shipping Date.