Item # PKP213U05A, Stepper Motor

Web Price \$55.25



Stepper Motor

The high-torque PKP series stepper motor offers balanced performance enhanced by high torque, low vibration and low noise.

· Unipolar Winding



LEAD TIME SPECIFICATIONS

LEAD TIME

Available to Ship ¹	07/18/2016
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¹ Quoted Ship Date for orders placed before 12:00 pm PST. Quantities may affect Shipping Date.

SPECIFICATIONS

Motor Type	2-Phase
Frame Size	20 mm
Motor Length	30 mm
Speed-Torque Characteristics	Speed - Torque Characteristics
Holding Torque	0.014 N·m
Shaft/Gear Type	Round Shaft (No Gearhead)
Shaft	Single
Туре	High-Torque
Encoder	Not Equipped
Basic Step Angle	1.8°
Output Step Angle	1.8 °

Electromagnetic Brake	Not Equipped
Motor Connection Type	Flying Leads
Connection Type	Unipolar
Current per Phase (A/phase)	0.5
Lead Wires	5
Voltage (VDC)	4.25
Resistance (Ω/phase)	8.5
Inductance (mH/phase)	2.9
Rotor Inertia	1.6×10 ⁻⁷ kg·m²
RoHS Compliant	Yes
Insulation Resistance	100 M Ω or more when 500 VDC megger is applied between the windings and the case under normal ambient temperature and humidity.
Dielectric Strength	Sufficient to withstand 0.5 kVAC at 50 Hz or 60 Hz applied between the windings and the case for 1 minute under normal ambient temperature and humidity.
Temperature Rise	Temperature rise of the windings is 176°F (80°C) or less measured by the change resistance method. (at rated voltage, at standstill, 2 phases energized)
Insulation Class	Class B [266°F (130°C)] Depending on the driving conditions, a considerable amount of heat may be generated by the motor. Be sure to keep the temperature of the motor case under 212°F (100°C)
Ambient Temperature Range	14 ~ 122°F (-10 ~ 50°C) (non-freezing)
Ambient Humidity	85% or less (non-condensing)
Shaft Runout	0.05 mm (0.002 in.) T.I.R.
Concentricity	0.075 mm (0.003 in.) T.I.R.
Perpendicularity	0.075 mm (0.003 in.) T.I.R.
Radial Play	0.025 mm (0.001 in.) maximum of 5 N (1.12 lb.)
Axial Play	0.075 mm (0.003 in.) maximum of 10 N (2.2 lb.)
Step Accuracy	±3 arc minutes (±0.05°)
Radial Load	0 mm from Shaft End = 12 N 5 mm from Shaft End = 15 N
Axial Load	3 N