Item # PK243B1A-SG18, Stepper Motor

Stepper Motor

Incorporating the SH gears with high permissible torque delivers high resolution, high torque and smooth low-speed rotation.

RoHS

SPECIFICATIONS

Product Line	VEXTA ®
Motor Type	2-Phase
Motor Frame Size	1.65 in. sq.
Shaft/Gear Type	Spur Gear
Gear Ratio (X:1)	18 :1
Holding Torque	112 oz-in
Type	Geared
Connection Type	Bipolar (Series) Unipolar
Lead Wires	6

Current per Phase (A/phase)	0.67 [Bipolar (Series)] 0.95 [Unipolar]
Encoder	None
Shaft	Double
Voltage (VDC)	5.6 [Bipolar (Series)] 4 [Unipolar]
Resistance (Ω/phase)	8.4 [Bipolar (Series)] 4.2 [Unipolar]
Inductance (mH/phase)	10 [Bipolar (Series)] 2.5 [Unipolar]
Step Angle	0.1 °
Rotor Inertia (oz-in^2)	0.191 oz-in^2
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 current, at standstill, 2 phases energized)
Insulation Class	Class B [266°F (130°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.)