

5017-006

NEMA 17 Step Motor



Product Features

- 2-phase hybrid step motor
- Standard NEMA 17 dimensions



Description

Product Description:

The 5017-006 two-phase stepper motor is suitable for a wide range of motion control applications.

Specifications

Part Number:	5017-006
Frame Size:	NEMA 17
Motor Type:	Standard torque
Part Number w/Double Shaft:	5017-006D
Motor Length:	1.34 inches
Number of Lead Wires:	6
Lead Wire Configuration:	flying leads, no connector
Lead Wire/Cable Length:	12 inches inches
Lead Wire Gauge:	22 AWG
Unipolar Holding Torque:	15.3 oz-in
Bipolar Holding Torque:	21.6 oz-in
Step Angle:	1.8 deg
Bipolar Series Current:	0.67 A/phase
Bipolar Series Resistance:	8.4 Ohms/phase
Bipolar Series Inductance:	12.4 mH/phase
Unipolar Current:	0.95 A/phase
Unipolar Resistance:	4.2 Ohms/phase
Unipolar Inductance:	3.1 mH/phase
Rotor Inertia:	2.69E-04 oz-in-sec ²
Integral Gearhead:	No
Storage Temperature:	-40 to 70 °C
Operating Temperature:	-20 to 50 °C
Insulation Class:	Class B (130 °C)
Shaft Run Out:	0.001 inch T.I.R. max
Radial Play:	0.001 inch max w/ 4.4 lb load
End Play:	0.001 inch max w/ 6.6 lb load
Perpendicularity:	0.003 inches
Concentricity:	0.003 inches

Concentricity: 0.002 inches

Downloads

Family Datasheet:  [StepMotorWiring-6-lead.pdf](#)

Datasheet: <http://s3.amazonaws.com/applied-motion-pdf/5017-006.pdf>

2D Drawing:  [5017-006_RevE.pdf](#)

 [171833_RevD_MechanicalSpec.pdf](#)