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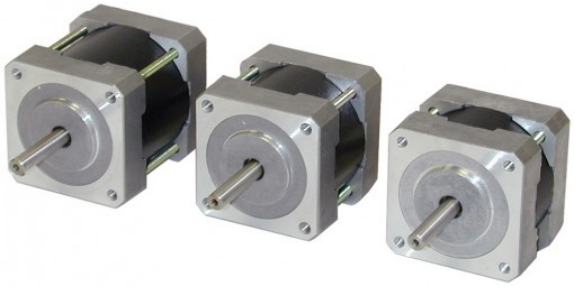
Product Datasheet

www.Applied-Motion.com

5017-009

NEMA 17 Step Motor



Product Features

- ***Closeout sale in progress***
- ***Single shaft only***
- ***Limited quantity in stock***
- *2-phase hybrid step motor*
- *Standard NEMA 17 dimensions*
- *1.8 degree step angle*

Description

Product Description:

The 5017-009 stepper motor with single shaft (**see Note below**) is a two-phase hybrid step motor with a NEMA 17 frame size. The motor is no longer in production (and normally listed as archived on our website) but is being offered in a closeout sale to clear our inventory. Once the remaining inventory of this motor is depleted the motor will revert to being listed as archived on our website and will no longer be available for purchase. This makes the motor a good choice for one-time applications, research & development work, and hobbyist projects.

Note: Only the single-shaft version of this motor is available for purchase in the closeout sale. The double-shaft version, 5017-009D, is not available. All sales are final.

Specifications

Part Number:	5017-009
Frame Size:	NEMA 17
Motor Type:	Standard torque
Motor Length:	1.54 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:	22.2 oz-in
Bipolar Holding Torque:	31.4 oz-in
Step Angle:	1.8 deg
Bipolar Series Current:	0.57 A/phase
Bipolar Series Resistance:	15.0 Ohms/phase
Bipolar Series Inductance:	26.0 mH/phase
Unipolar Current:	0.80 A/phase
Unipolar Resistance:	7.5 Ohms/phase
Unipolar Inductance:	6.5 mH/phase
Rotor Inertia:	3.82E-04 oz-in-sec^2
Integral Gearhead:	No
Storage Temperature:	-40 to 70 °C
Operating Temperature:	-10 to 40 °C
Insulation Class:	Class B (130 ºC)
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:	0.002 inches

Downloads

Family Datasheet:	StepMotorWiring-6-lead.pdf
Datasheet:	http://s3.amazonaws.com/applied-motion-pdf/5017-009.pdf
2D Drawing:	5017-009 rev C.pdf
3D Drawing:	5017-39mm.igs HT17_39mm_wWAA_encoder.igs