

## 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

<b>Part Number:</b>	5017-009
<b>Frame Size:</b>	NEMA 17
<b>Motor Type:</b>	Standard torque
<b>Motor Length:</b>	1.54 inches
<b>Number of Lead Wires:</b>	6
<b>Lead Wire Configuration:</b>	flying leads, no connector
<b>Lead Wire/Cable Length:</b>	12 inches
<b>Lead Wire Gauge:</b>	22 AWG
<b>Unipolar Holding Torque:</b>	22.2 oz-in
<b>Bipolar Holding Torque:</b>	31.4 oz-in
<b>Step Angle:</b>	1.8 deg
<b>Bipolar Series Current:</b>	0.57 A/phase
<b>Bipolar Series Resistance:</b>	15.0 Ohms/phase
<b>Bipolar Series Inductance:</b>	26.0 mH/phase
<b>Unipolar Current:</b>	0.80 A/phase
<b>Unipolar Resistance:</b>	7.5 Ohms/phase
<b>Unipolar Inductance:</b>	6.5 mH/phase
<b>Rotor Inertia:</b>	3.82E-04 oz-in-sec <sup>2</sup>
<b>Integral Gearhead:</b>	No
<b>Storage Temperature:</b>	-40 to 70 °C
<b>Operating Temperature:</b>	-10 to 40 °C
<b>Insulation Class:</b>	Class B (130 °C)
<b>Shaft Run Out:</b>	0.001 inch T.I.R. max
<b>Radial Play:</b>	0.001 inch max w/ 4.4 lb load
<b>End Play:</b>	0.001 inch max w/ 6.6 lb load
<b>Perpendicularity:</b>	0.003 inches
<b>Concentricity:</b>	0.002 inches

## Downloads

<b>Family Datasheet:</b>	 <a href="#">StepMotorWiring-6-lead.pdf</a>
<b>Datasheet:</b>	<a href="http://s3.amazonaws.com/applied-motion-pdf/5017-009.pdf">http://s3.amazonaws.com/applied-motion-pdf/5017-009.pdf</a>
<b>2D Drawing:</b>	 <a href="#">5017-009 rev C.pdf</a>
<b>3D Drawing:</b>	 <a href="#">5017-39mm.igs</a>  <a href="#">HT17_39mm_wWAA_encoder.igs</a>