

## 5017-011

NEMA 17 Step Motor



### **Product Features**

- 2-phase hybrid step motor
- Standard NEMA 17 dimensions
- 1.8 degree step angle

### Description

#### **Product Description:**

The 5017-011D stepper motor with double 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 double-shaft version of this motor, part number 5017-011D, is available for purchase in the closeout sale. No single-shaft version is available. All sales are final.

## Specifications

<b>Part Number:</b>	5017-011
<b>Frame Size:</b>	NEMA 17
<b>Motor Type:</b>	Standard torque
<b>Part Number w/Double Shaft:</b>	5017-011D
<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 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>	0.14 A/phase
<b>Bipolar Series Resistance:</b>	240 Ohms/phase
<b>Bipolar Series Inductance:</b>	420 mH/phase
<b>Unipolar Current:</b>	0.20 A/phase
<b>Unipolar Resistance:</b>	120 Ohms/phase
<b>Unipolar Inductance:</b>	105 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>	-20 to 50 °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>	0.003 inches

Concentricity: 0.002 inches

## Downloads

<b>Datasheet:</b>	 <a href="#">StepMotorWiring-6-lead.pdf</a>
<b>Product PDF - S3 Link:</b>	<a href="http://s3.amazonaws.com/applied-motion-pdf/5017-011.pdf">http://s3.amazonaws.com/applied-motion-pdf/5017-011.pdf</a>
<b>2D Drawing:</b>	 <a href="#">5017-011 rev C.pdf</a>
	 <a href="#">171838_RevD_MechanicalSpec.pdf</a>
<b>3D Drawing:</b>	 <a href="#">HT17_39mm_wWAA_encoder.igs</a>