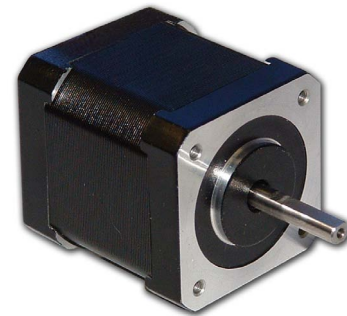


# 17Y Series - High Torque Step Motors

FEATURES

- **NEMA 17 Frame Size**
- **1.8° Step Angle (0.9° and 3.6° also available)**
- **High Torque - Up to 111 oz-in**
- **High Step Accuracy and Resolution**
- **Low Vibration and Noise**
- **Shaft Flat as Standard**
- **Can be Customized for**
  - **Winding Current**
  - **Shaft Options**
  - **Cables and Connectors**
- **CE Certified and RoHS Compliant**



DESCRIPTION

The 17Y Series High Torque Step Motors offer a great value without sacrificing quality. These motors were designed to offer the highest possible torque while minimizing vibration and audible noise. A broad line of motor windings and stack lengths are available off-the-shelf, or the motors can be customized to fit your machine requirements. We can customize the winding to perfectly match your voltage, current, and maximum operating speed for maximum flexibility.

[Accessories are available for optional motor adders such as gearboxes, encoders, cables and connectors. Compatible drivers for the 17Y Series include the MBC15081 and MBC25081TB.](#)

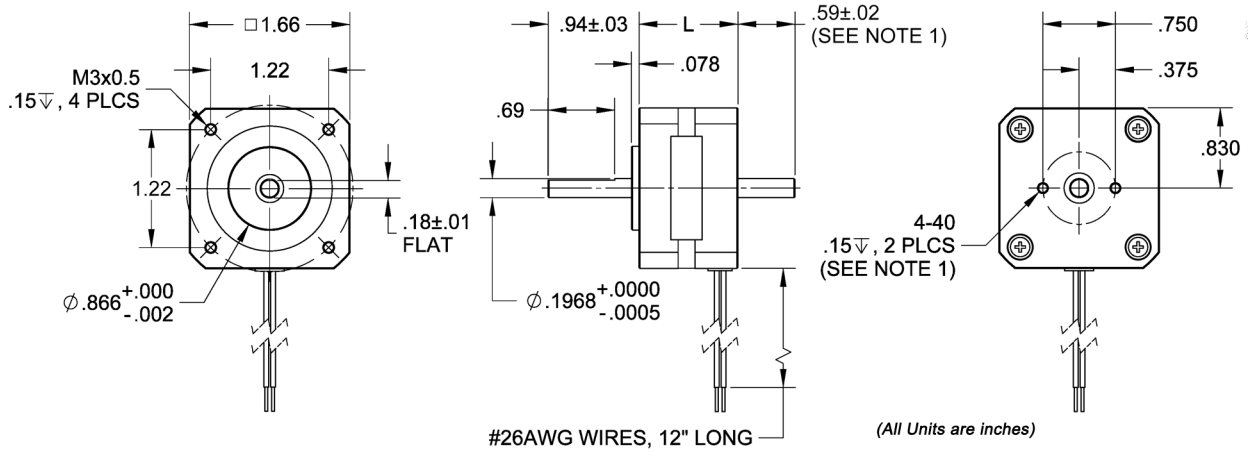
CUSTOM ORDER LAYOUT

Model #	NEMA Size	Bipolar Torque (oz-in)	Bipolar Current (A)	Bipolar Voltage (V)	Bipolar Inductance (mH)	Rotor Inertia (oz-in-sec <sup>2</sup> )	Shaft Diameter (in)	# of Lead Wires	Weight (lbs)	L Length (in)
17Y001S-LW4	17	24	0.40	9.6	30	0.00028	0.197	4	0.33	1.02
17Y101S-LW4	17	28	0.28	12	49	0.00054	0.197	4	0.44	1.34
17Y102S-LW4	17	28	0.71	4.2	10.7	0.00054	0.197	4	0.44	1.34
17Y201S-LW4	17	50	0.28	15.7	90	0.00076	0.197	4	0.62	1.57
17Y202S-LW4	17	50	0.85	5.6	10	0.00076	0.197	4	0.62	1.57
17Y301S-LW4	17	61	0.28	19.3	103	0.00096	0.197	4	0.77	1.89
17Y302S-LW4	17	61	0.85	5.6	11	0.00096	0.197	4	0.77	1.89
17Y402S-LW4	17	111	0.85	10.2	29	0.00144	0.197	4	1.10	2.36
17Y408S-LW4	17	111	3	3.3	2.4	0.00144	0.197	4	1.10	2.36

*Note: All Shafts have a flat unless otherwise noted. The 7th character "S" denotes a single shaft, use "D" for double shaft. Double shafts include encoder mounting provisions. Custom cables, connectors, and windings are available upon request.*

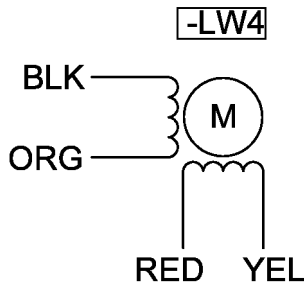
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DIMENSION DRAWING



Note1: Applies to dual shaft option only

WIRING INFORMATION



Connection	Lead Wire Connection	Lead Wire Color
4 - Lead Bipolar Series MBC Series	Phase 1 (A)	Black
	Phase 3 (A)	Orange
	Phase 2 (B)	Red
	Phase 4 (B)	Yellow

SPECIFICATIONS

Step Angle Accuracy:	± 5% (Full Step, No Load)	Insulation Resistance:	100M Ohm Min, 500VDC
Resistance Accuracy:	± 10%	Dielectric Strength:	500VAC for 1 minute
Inductance Accuracy:	± 20%	Shaft Radial Play:	0.02" Max (1.0 lbs)
Temperature Rise:	80°C Max (2 Phases On)	End Play:	0.08" Max (1.0 lbs)
Ambient Temperature:	-20° to +50° C	Max Radial Force:	6.29 lbs (0.79" from flange)
Insulation Type:	Class B	Max Axial Force:	2.24 lbs-Force