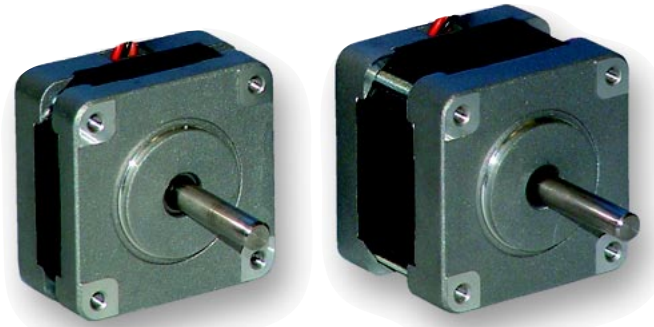


# 15Y Series - High Torque Stepper Motors



## FEATURES

- **NEMA 15 Frame Size**
- **1.8° Step Angle**
- **High Torque - Up to 50 oz-in**
- **High Step Accuracy and Resolution**
- **Low Vibration and Noise**
- **Can be Customized for**
  - Winding Current
  - Shaft Options
  - Cables and Connectors
  - Encoders and Brakes
- **CE Certified and RoHS Compliant**



## DESCRIPTION

The 15Y Series High Torque Stepper 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. These motors come standard with 4 leads for wiring in bipolar series. We can also customize the winding to perfectly match your voltage, current, and maximum operating speed. Other leadwire configurations are available upon request.

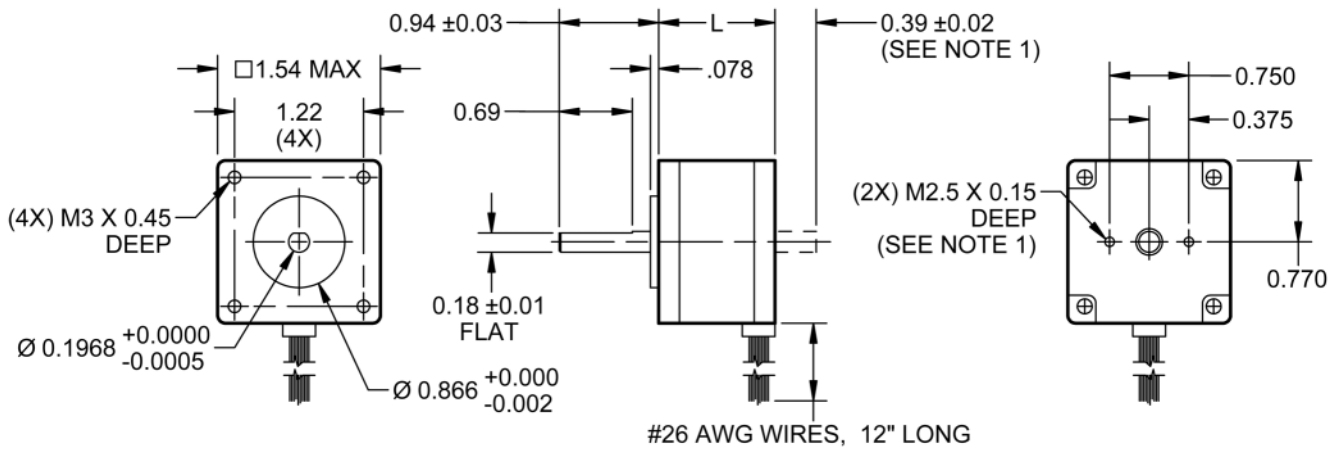
**See Accessories on this website for optional motor adders, such as encoders, cables and connectors. See compatible drivers for the 15Y Series: MBC15081, and MBC25081TB.**

## SPECIFICATIONS

Model #	# of Lead Wires	Shaft Type	Bipolar Torque (oz-in)	Bipolar Current (A)	Bipolar Voltage (V)	Bipolar Resistance (ohms)	Bipolar Inductance (mH)	L Length (inches)	Rotor Inertia (oz-in-sec <sup>2</sup> )	Weight (lbs)
15Y001S-LW4	4	Single	9	0.4	2.64	6.6	7.5	0.79	0.00015	0.33
15Y001D-LW4	4	Dual	9	0.4	2.64	6.6	7.5	0.79	0.00015	0.33
15Y102S-LW4	4	Single	25	0.65	4.55	7.0	9.3	1.339	0.00028	0.40
15Y102D-LW4	4	Dual	25	0.65	4.55	7.0	9.3	1.339	0.00028	0.40
15Y202S-LW4	4	Single	40	0.7	8.4	12.0	23.0	1.50	0.00034	0.44
15Y202D-LW4	4	Dual	40	0.7	8.4	12.0	23.0	1.50	0.00034	0.44
15Y203S-LW4	4	Single	40	0.7	8.4	12.0	23.0	1.50	0.00034	0.44
15Y303S-LW4	4	Single	50	1.0	6.5	6.5	12.0	1.73	0.00057	0.55
15Y303D-LW4	4	Dual	50	1.0	6.5	6.5	12.0	1.73	0.00057	0.55

Note: Custom leadwires, cables, connectors, and windings are available upon request.

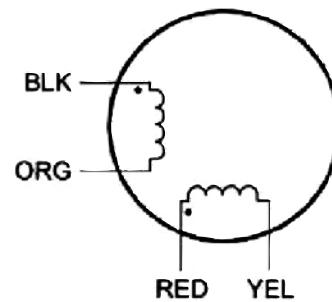
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(All units are inches)

PART NUMBER	"L" DIMENSION
15Y0XXX-LWX	0.787
15Y1XXX-LWX	1.339
15Y2XXX-LWX	1.496
15Y3XXX-LWX	1.732

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



Step Angle Accuracy:	+/- 5% (Full Step, No Load)	Insulation Resistance:	100M Ohm Min, 500VDC
Resistance Accuracy:	+/- 10%	Dielectric Strength:	500 VAC for 1 minute
Inductance Accuracy:	+/- 20%	Shaft Radial Play:	0.00079" Max (1.0 lb load)
Temperature Rise:	80° C Max (2 Phases On)	Shaft Axial Play:	0.00315" Max (1.0 lb load)
Ambient Temperature:	-20° to +50° C	Max Radial Force:	6.3 lbs (0.79" from flange)
Insulation Type:	Class B	Max Axial Force:	2.3 lbs-Force