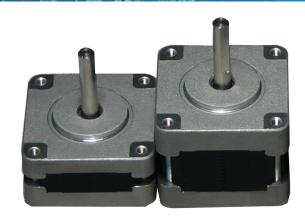
Series - High Torque Stepper Motors



- NEMA 15 Frame Size
- 1.8° Step Angle
- IP50 Rated
- High Torque Up To 50 oz-in
- High Step Accuracy and Resolution
- Shaft Flat as Standard
- Can be Customized for
 - Winding Current
 - Shaft Options
 - Cables and Connectors
 - Encoders and Brakes
- CE Certified and RoHS Compliant



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.

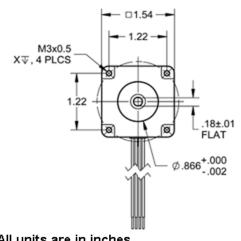
See Accessories on our website for optional motor adders such as encoders, cables, and connectors. See compatible drivers for the 15Y Series: MBC15081, MBC25081TB

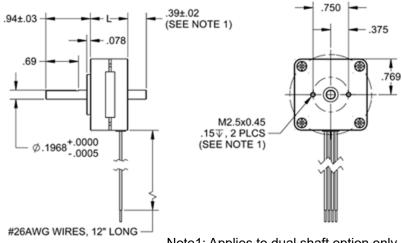
Model #	# of Lead Wires	Shaft Type	Bipolar Torque (oz-in)	Bipolar Current (A)	Bipolar Voltage (V)	Bipolar Resistance (ohms)	Bipolar Inductance (mH)	"L" Length (in)	Rotor Inertia (oz-in-sec²)	Weight (lbs)
15Y001S-LW4	4	Single	9	0.4	2.64	6.6	6.0	0.79	0.00015	0.33
15Y001D-LW4	4	Dual	9	0.4	2.64	6.6	6.0	0.79	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	1.1	4.4	4.0	7.0	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

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

L010344

PART NUMBER	"L" DIMENSION	"X" DIMENSION
15Y0XXX-LWX	.787	.079
15Y1XXX-LWX	1.339	.150
15Y2XXX-LWX	1.496	.150
15Y3XXX-LWX	1.732	.150





BLK-

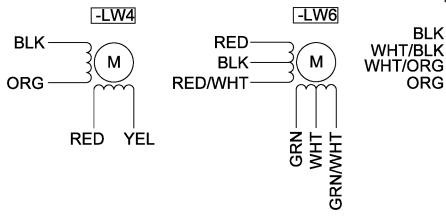
ORG

All units are in inches

Note1: Applies to dual shaft option only -LW8

M

RED WHT/RED WHT/YEL



Connection	Lead Wire Connection	Lead Wire Cutter
	Phase 1 (A)	Black
4-Lead Bipolar	Phase 3 (/A)	Orange
Series MBC Series	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:	500VAC 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 (130°C Internal)	Max Axial Force	2.3 lbs-Force