

08Y Series - High Torque Stepper Motors

FEATURES

- **NEMA 8 Frame Size**
- **1.8° Step Angle**
- **High Torque - Up To 4.9 oz-in**
- **High Step Accuracy and Resolution**
- **Low Vibration and Noise**
- **Can be Customized for**
 - **Winding Current**
 - **Shaft Options**
 - **Cables and Connectors**
- **CE Certified and RoHS Compliant**



DESCRIPTION

The 08Y Series High Torque Stepper Motors offer high torque in a compact size. 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. The motor comes in a standard 4-lead configuration. We can also customize the winding to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

See [Accessories](#) on this website for optional motor adders such as encoders, cables and connectors. See [compatible drivers](#) for the 08Y Series: [MBC15081](#), [MBC25081TB](#)

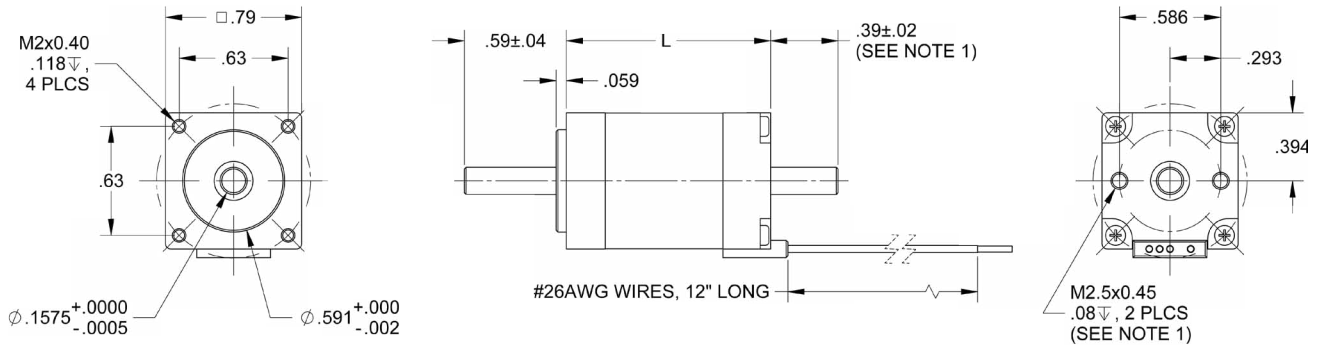
SPECIFICATIONS

Model #	NEMA Size	Bipolar Torque (oz-in)	Series RMS Current (A)	Series Peak Current (A)	Series Inductance (mH)	Bipolar Series Voltage (V)	Bipolar Series Resistance (ohm)	Rotor Inertia (oz-in-sec ²)	Shaft Diameter (in)	# of Lead Wires	Weight (lbs)	"L" Length (in)
08Y102S-LW4	8	2.5	0.60	0.85	1.7	3.90	6.5	0.000028	0.1575	4	0.13	1.18
08Y302S-LW4	8	4.2	0.80	1.13	1.5	4.32	5.4	0.000028	0.1575	4	0.18	1.65
08Y403S-LW4	8	4.9	1.10	1.56	1.1	2.97	2.7	0.000028	0.1575	4	0.18	1.89

Notes: The 7th character "S" denotes a single shaft, use "D" for double shaft. Custom leadwires, cables, connectors, and windings are available upon request.

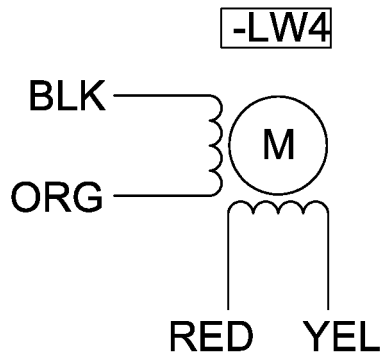
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DIMENSIONS

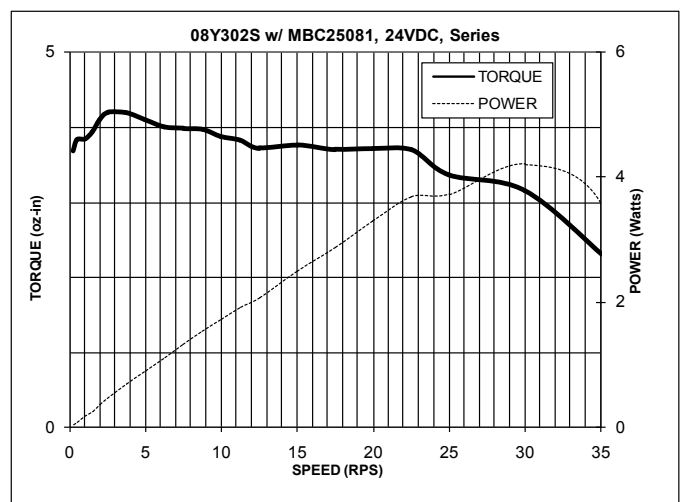
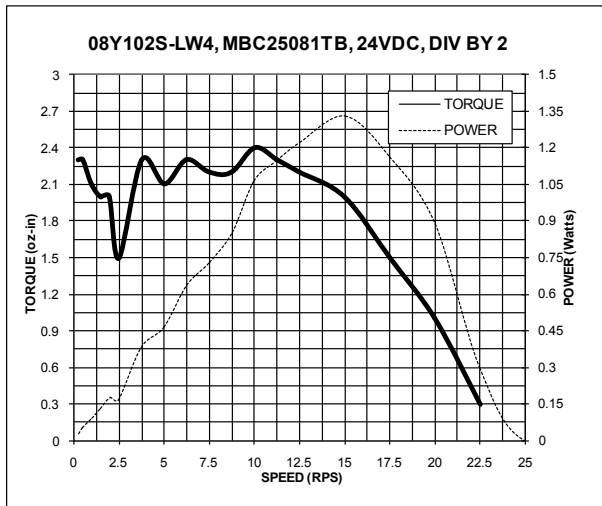


Note 1: Dual Shaft option only

WIRING INFORMATION



TORQUE CURVES



SPECIFICATIONS

Ambient and Storage Temperature Ranges	-20°C - 50°C	Axial Loads	2N Radial and Axial Play
Max Temperature Tolerated	80°C Rise (Class B Motor is Max 130°C Internal Temperature)	Radial	0.02mm with 450g
Phase Resistance	6.5 ± 10% Ohms	Axial	0.08mm with 450g
Radial Loads	Radial = 20N @ Base of Shaft	Lifetime if Operated Within Specifications	20,000 hours