23Y9 Series - High Torque 0.9° Stepper Motor



- NEMA 23 Frame Size
- 0.9° Step Angle
- IP50 Rated
- High Torque Up to 270 oz-in
- High Step Accuracy and Resolution
- Shaft Flat as Standard
- Can be Customized for
 - Winding Current
 - Shaft Options
 - Cables and Connectors
- CE Certified and RoHS Compliant



The 23Y9 Series High Torque Stepper Motors offer a great value without sacrificing quality. These motors have a 0.9° step angle making them higher precision than the typical 1.8° version. However, like the standard versions, 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. The standard 8-lead motors can be connected in all possible configurations: series, unipolar, or parallel, to allow the maximum flexibility for your application. We can also customize the winding to perfectly match voltage, current, and maximum operating speed to meet your requirements.

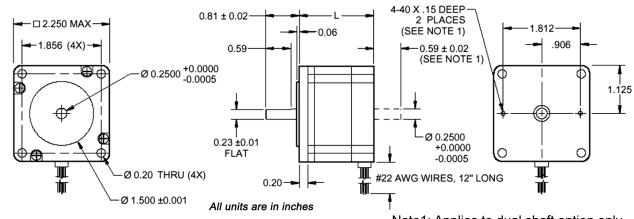
See Accessories on this website for optional motor adders such as encoders, brakes, cables and connectors. For gearbox options, see Gearboxes. For compatible drivers for the 23Y9 Series, see the MBC050641, MBC12101 or Driver Packs.

Model #	Shaft Type	NEMA Size	Bipolar Torque (oz-in)	Series Current (A)	Bipolar Voltage (V)	Series Resistance (ohm)	Series Inductance (mH)	Rotor Inertia (oz-in-sec²)	Shaft Diameter (in)	# of Lead Wires	Weight (lbs)	L Length (in)
23Y9006S-LW4	Single	23	76	2.2	2.5	1.15	3.6	0.0017	0.25	4	0.81	1.6
23Y9106S-LW8	Single	23	178	2.12	2.3	1.5	7.6	0.00425	0.25	8	1.54	2.2
23Y9106D-LW8	Double	23	178	2.12	2.3	1.5	7.6	0.00425	0.25	8	1.54	2.2
23Y9206S-LW8	Single	23	262	2.12	3.0	2.0	3.3	0.00680	0.25	8	2.20	3.0
23Y9206D-LW8	Double	23	262	2.12	3.0	2.0	3.3	0.00680	0.25	8	2.20	3.0

Notes: The 8th character "S" denotes single shaft. Use "D" for dual shaft. Custom leadwires, cables, connectors, and windings are available upon request.

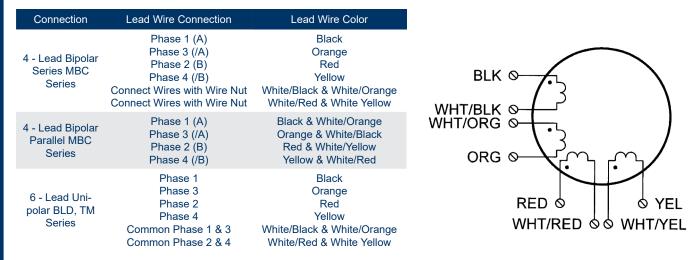
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Note1: Applies to dual shaft option only

SPECIFICATION CONVERSION TABLE							
Connection	Current (A)	Resistance (R)	Inductance (L)				
Series Standard	А	R	L				
Parallel	2A	R / 4	L / 4				
Unipolar	1.414A	R / 2	L / 4				



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WIRING INFORMATION

Step Angle Accuracy:	±5% (Full Step, No Load)	Insulation Resistance:	100M Ohm Min, 500 VDC
Resistance Accuracy:	±10%	Dielectric Strength:	500VDC for one minute
Inductance Accuracy:	±20%	Radial Play:	0.02" at 1.0 lb
Temperature Rise:	80°C Max (2 Phases On)	End Play:	0.08" at 1.0 lb
Ambient Temperature:	-20° to +50°C	Max Radial Force:	16.9 lbs (0.79" from flange)
Insulation Type:	Class B (130°C Internal)	Max Axial Force:	3.4 lbs-Force

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