



- NEMA 24 Frame Size (Same Mounting and Shaft Dimensions as NEMA 23 Size, but 30%-50% More Torque than NEMA 23 Motors)
- 1.8° Step Angle
- IP50 Rated
- Higher Torque than Other Motor Manufacturers
- Up to 475 oz-in of Peak Torque
- Shaft Flat as Standard
- Can be Customized for
  - Winding Current
  - Shaft Options
  - Cables and Connectors



If you need more torque from a NEMA 23 motor but can't move to a NEMA 34, then the 24Y Series is your answer! They are bulkier than the standard 23 Frame motors, but have the same mounting and shaft dimensions as well as higher torque. 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 standard 8-lead motor 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 your voltage, current, and maximum torque at operating speeds.

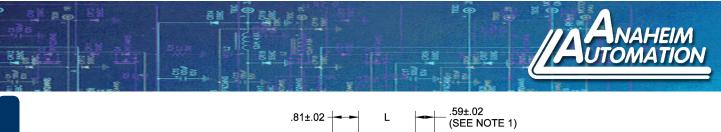
## See *Accessories* on our website for optional motor adders such as encoders, brakes, cables, and connectors. For compatible drivers, see the MBC25081TB, MBC05641, MBC12101, and Driver Packs.

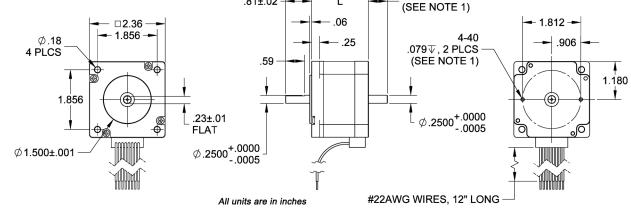
Model #	NEMA Size	Bipolar Torque (oz-in)	Series RMS Current (A)	Series Voltage (V)	Series Resistance (ohm)	Series Inductance (mH)	Rotor Inertia (oz-in-sec²)	Shaft Diameter (in)	# of Lead Wires	Weight (lbs)	"L" Length (in)
24Y104S-LW8	24	153	1.4	4.2	3.0	8.0	0.0039	0.25	8	1.32	1.85
24Y204S-LW8	24	229	1.4	5.04	3.6	14.4	0.0057	0.25	8	1.70	2.20
24Y304S-LW8	24	292	1.4	6.72	4.8	18.4	0.0081	0.25	8	2.5	2.64
24Y308S-LW8	24	292	2.8	4.48	1.6	6.8	0.0081	0.25	8	2.65	2.64
24Y404S-LW8	24	380	1.4	6.16	4.4	20.0	0.0012	0.25	8	2.65	3.03
24Y504S-LW8	24	431	1.4	8.4	6.0	27.2	0.0119	0.25	8	3.09	3.46
24Y506S-LW8	24	431	2.1	5.46	2.6	12.8	0.0119	0.25	8	3.09	3.46
24Y508S-LW8	24	431	2.8	3.92	1.4	7.2	0.0119	0.25	8	3.09	3.46

Note: The 7th character "S" denotes a single shaft. Custom leadwires, cables, connectors and windings are available upon request.

Step Angle Accuracy:	± 5% (Full Step, No Load)	Insulation Resistance:	100M Ohm Min, 500VDC
Resistance Accuracy:	± 10%	Dielectric Strength:	500VDC 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:	16.9 lbs (0.79" from flange)
Insulation Type:	Class B (130°C Internal)	Max Axial Force:	3.4 lbs-Force

## L010280





Note 1: Applies to dual shaft option only

	Connectio		on Current (A)	Resistance (R	) Inductance (L)	
	Series Stand		idard A	R	L	
		Paralle	I 2A	R / 4	L / 4	
		Unipola	r 1.414A	R / 2	L / 4	
BLK - ORG -			RED BLK RED/WHT	GRN WHT GRNWHT	BLK- WHT/BLK- WHT/ORG <sup>-</sup> ORG-	WHT/RED WHT/RED WHT/YEL
	Conn	ection	Lead Wire Conne	ection	Lead Wire Color	r
	Se	d Bipolar ries ILP Series	Phase 1 (A Phase 3 (/A Phase 2 (B Phase 4 (/B Connect Wires with Connect Wires with	) ) Wire Nut Whi	Black Orange Red Yellow te/Black & White/C nite/Red & White/Y	
	4 - Lead Bipolar Parallel MBC or MLP Series		Phase 1 (A) Phase 3 (/A) Phase 2 (B) Phase 4 (/B)		Black & White/Orar Drange & White/Bla Red & White/Yello Yellow & White/Re	ack w
	6 - Lead Unipolar BLD, TM Series		Phase 1 Phase 3 Phase 2 Phase 4 Common Phase Common Phase		Black Orange Red Yellow te/Black & White/C nite/Red & White/Y	

DIMENSIONS

4985 E. Landon Drive Anaheim, CA 92807 Tel. (714) 992-6990 Fax. (714) 992-0471 www.anaheimautomation.com