Series - High Torque Stepper Motors



- NEMA 34 Frame Size
- 1.8° Step Angle
- IP50 Rated
- High Torque Up To 1700 oz-in
- High Step Accuracy and Resolution
- Keyed Shaft Standard
- Can be Customized for
 - Winding Current
 - Shaft Options
 - Cables and Connectors
- CE Certified and RoHS Compliant



The 34Y Series High Torque Step Motors offer a great value without sacrificing quality. These motors are 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, and motors can be customized to fit your machine requirements. 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 your voltage, current, and maximum torque at operating speeds.

See Accessories on our website for optional motor adders such as encoders, cables, and connectors. Gearbox options can be found in Gearboxes. See compatible drivers for the 34Y Series: MBC05641, MBC10641, MBC12101, MLA10641 and Driver Packs.

Model #	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)	# Lead Wires	Weight (lbs)	"L" Length (in)
34Y004S-LW8	34	467	1.4	7.42	5.3	34	0.014	0.5	8	3.7	2.56
34Y006S-LW8	34	467	2.1	7.2	2.4	15.4	0.014	0.5	8	3.7	2.56
34Y008S-LW8	34	467	2.8	3.64	1.3	8.5	0.014	0.5	8	3.7	2.56
34Y010S-LW8	34	467	3.5	3.36	0.8	4.9	0.014	0.5	8	3.7	2.56
34Y104S-LW8	34	637	1.4	10.08	6.2	56.8	0.020	0.5	8	5.1	3.15
34Y108S-LW8	34	637	2.8	4.7	1.68	15.2	0.020	0.5	8	5.1	3.15
34Y112S-LW8	34	637	4.3	3.35	0.78	6.8	0.020	0.5	8	5.1	3.15
34Y207S-LW8	34	1200	2.5	6.5	2.6	33.2	0.038	0.5	8	8.4	4.56
34Y214S-LW8	34	1200	4.9	3.5	0.7	9.2	0.038	0.5	8	8.4	4.56
34Y307S-LW8	34	1700	2.5	9	3.6	48	0.057	0.625	8	12.0	6.14
34Y314S-LW8	34	1700	5.0	4.8	0.56	14.2	0.057	0.625	8	12.0	6.14

Step Angle Accuracy:	±5% (Full Step, No Load)	Insulation Resistance:	100M Ohm Min, 500VDC
Resistance Accuracy:	±10%	Dielectric Strength:	820VAC/s for 3mA
Inductance Accuracy:	±20%	Shaft Radial Play:	0.02" Max (1.0 lb load)
Temperature Rise:	80° C Max (2 Phases On)	Shaft Axial Play:	0.08" Max (1.0 lb load)
Ambient Temperature:	-20° to +50° C	Max Radial Force:	49.5 lbs (0.79" from flange)
Insulation Type:	Class B (130°C Internal)	May Avial Force:	13.5 lbs-Force

Notes: LW8 is for 8 leadwires, other leadwire options are available. The 7th character "S" denotes a single shaft, use "D" for double shaft. Double shafts include encoder mounting provisions. Custom leadwires, cables, connectors, and windings are available upon request. L010165

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

34Y3XXX-LWX

34Y4XXX-LWX

.6250

.6250

.1875

.1875

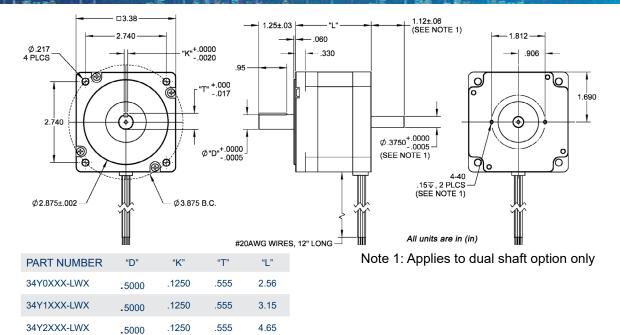
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6.14

7.68





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

Connection	Lead Wire Connection	Lead Wire Color
4 - Lead Bipolar Series MBC or MLA Series	Phase 1 (A) Phase 3 (A\) Phase 2 (B) Phase 4 (B\) Connect Wires with Wire Nut Connect Wires with Wire Nut	Black Orange Red Yellow White/Black & White/Orange White/Red & White/Yellow
4 - Lead Bipolar Parallel MBC or MLA Series	Phase 1 (A) Phase 3 (A\) Phase 2 (B) Phase 4 (B\)	Black & White/Orange Orange & White/Black Red & White/Yellow Yellow & White/Red
6 - Lead Unipolar BLD, TM Series	Phase 1 Phase 3 Phase 2 Phase 4 Common Phase 1 & 3 Common Phase 2 & 4	Black Orange Red Yellow White/Black & White/Orange White/Red & White/Yellow

