

- NEMA 34 Frame Size
- 1.8° Step Angle
- High Torque Up to 1700 oz-in
- Splashproof IP65 Sealed Stepper Motor
- 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



The 34Y65 Series High Torque Stepper Motors are designed to withstand splashdown, humid or damp environments, and water sprayback conditions. The IP65 sealed properties ensure that moisture be kept out of the motors internal electronics. In addition, these motors provide the highest possible torque available in a sealed size 34 stepper. The 34Y65 series is and excellent choice for lab automation, biotech, and semiconductor automation equipment, just to name a few.

See Accessories on our website for optional motor adders such as encoders, cables and connectors. For Gearbox options, see GBPH series gearboxes. For compatible drivers, consider MBC10641, MBC12101, MBC082561 and MLA10641 Series Driver Packs.

Model #	NEMA Size	Bipolar Torque (oz-in)	Series Current (A)	Unipolar Current (A)	Parallel Current (A)	Unipolar Inductance (mH)	Rotor Inertia (oz-in-sec²)	Shaft Diameter (in)	# of Terminals	Weight (lbs)	L Length (in)
34Y65112S-CB8	34	637	4.3	6.1	8.6	1.7	0.020	0.5	8	5.1	4.49
34Y65214S-CB8	34	1200	5.0	7.0	9.9	2.3	0.038	0.5	8	8.4	5.98
34Y65314S-CB8	34	1700	5.0	7.0	9.9	3.6	0.057	0.625	8	12.0	7.48

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

FEATURES

L010395







REAR VIEW WITH CONDUIT BOX REMOVED

Part Number	"D"	"K"	"T"	"L"
34Y651XXX-CB8	0.5000	0.1250	0.555	3.15
34Y652XXX-CB8	0.5000	0.1250	0.555	4.65
34Y653XXX-CB8	0.6250	0.1875	0.705	6.14

Connection	Lead Wire Connection	Lead Wire Color	Terminal #
4 - Lead Bipolar Series MBC or MLP 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	1 4 5 2 & 3 6 & 7
4 - Lead Bipolar Parallel MBC or MLP 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	1 & 2 3 & 4 7 & 8 5 & 6
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	1 4 5 2 & 3 6 & 7



SPECIFICATIONS

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%	Radial Play:	0.02" Max at 1.0lb load
Temperature Rise:	80°C (2 phase on)	End Play:	0.08" Max at 1.0lb load
Ambient Temperature:	-20°C - +50°C	Max Radial Force:	49.5lbs (0.79" from flange)
Insulation Type:	Class B	Max Axial Force:	13.5lbs-Force

WIRING INFORMATION