BLYSG34xS Series - Brushless DC Spur Gear Motors



- NEMA Size 34 BLDC Motor with Spur Gearboxes
- Compact Size and Power Density
- Cost-Effective Solution
- Lifetime of over 2,000 hours
- Available in Single and Double Shaft Options
- Can be Customized for
 - Maximum Speed/Winding Current
 - Shaft Options and Modifications
 - Cables and Connectors
- CE Certified and RoHS Compliant



The BLYSG34xS Series Brushless DC Spur Gearmotors come in a compact package with high power density. These motors are cost-effective solutions to many velocity control applications. They come in three stack lengths to provide just the right torque for a specific application. A number of windings are available off-the-shelf and the motors can be customized to fit specific machine requirements. The motor comes in a standard 11-lead configuration and can be wired for either delta or star configurations. We can also customize the windings to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, gear ratios, cables and connectors are also available upon request.

Output on Shaft of Motor before Gearbox												
Model #	Peak Torque (oz-in)	Rated Torque (oz-in)	Rated Power (W)	Rated Voltage (V)	Line to Line Inductance (mH)	Torque Constant (oz-in/A)	Rated Speed (RPM)	Back EMF Voltage (V/kRPM)	Winding Resistance (ohms)	Rotor Inertia (oz-in-sec²)	Weight* (lbs)	L2** (in)
BLYSG341S-48V-3200	149	50	110	48	2.20	14.0	3200	7.67	0.45	0.0057	3.3	2.20
BLYSG342S-24V-3000	297	100	220	24	0.08	7.93	3200	4.34	0.07	0.0113	4.1	2.79
BLYSG343S-48V-3200	595	198	440	48	0.61	16.99	3200	9.31	0.12	0.0227	5.7	3.81
BLYSG344S-48V-3200	892	297	660	48	0.10	16.57	3200	11.50	0.07	0.0340	8.8	4.78

Output on Shaft after Gearbox						
Gear Ratio	Number of Gear Trains	Gearbox Length L1 (in)	Peak Torque (oz-in)			
R3	2	1.65	3472			
R5	2	1.65	3472			
R7.5	2	1.65	3472			
R15	2	1.65	3472			
R25	3	2.36	3472			
R30	3	2.36	3472			
R50	4	2.36	3472			
R100	4	2.36	3472			
R120	4	2.36	3472			
R150	4	2.36	3472			

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

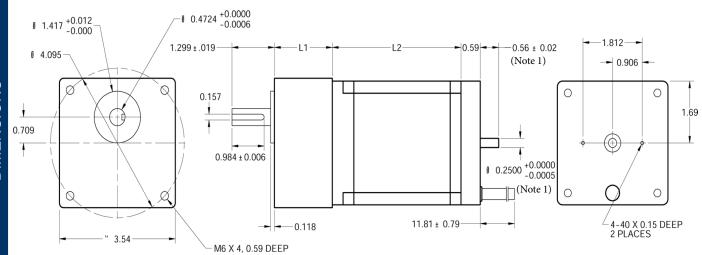
*Weights will vary based on gear ratio selected.

**Overall length of gearmotors will vary based on gear ratio selected.

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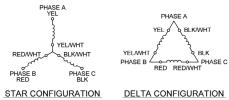
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Note 1: Dual Shaft option Units: Inch

Motor Wire Color	Cable Adder Color	
Red	Re/White	
Blue	Orange/White	
Green	Orange	
White	Yellow/White	
Black	Black/White	
Yellow, Yel/Wht	Yellow	
Red, Red/Wht	Red	
Black, Blk/Wht	Black	
	Color Red Blue Green White Black Yellow, Yel/Wht Red, Red/Wht	



NOTE:
1. STAR CONFIGURATION IS DEFAULT.
2. FOR DELTA CONFIGURATION:
REMOVE PLASTIC CAP

REMOVE PLASTIC CAP.
REMOVE 3 SCREWS HOLDING PCB.
ROTATE HALL PCB TO LINE UP WITH
RED MARKER. REPLACE SCREWS.
REPLACE PLASTIC CAP.

Hall Effect Angle:	120° electrical angle	Number of poles:	8
Insulation Class:	Class B	Number of phase:	3
Dielectric Strength:	500VDC for one minute	Temperature Rise:	70° C
Insulation Resistance:	100MOhms Min, 500VDC	Life Expectancy:	Over 2000 Hours
Axial Load:	10kg	Radial Load:	30kg - 10mm from end of shaft