DESCRIPTION

## BLY6534 Series - Brushless DC Motors



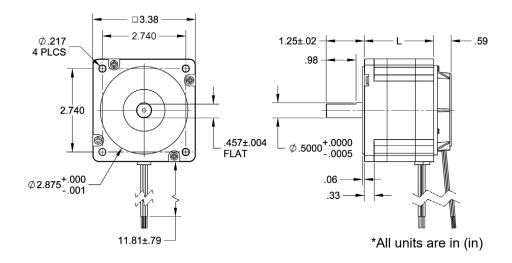
- NEMA Size 34 BLDC Motors
- IP65 Rated
- Compact Size and Power Density
- Lifetime of over 20,000 hours
- Long Life and Highly Reliable
- Can be Customized for
  - Maximum Speed
  - Winding Current
  - Shaft Options
  - Cables and Connectors
- CE Certified and RoHS Compliant



The BLY6534 Series Brushless DC Motors come in a compact package with high power density. These motors are cost-effective solutions to many velocity control applications. They are available in both single and dual shaft options, and come in four different stack lengths to provide you with just the right torque for your application. A number of windings are available off-the-shelf and the motors can be customized to fit your 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 winding to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

Model #	Rated Voltage (V)	Rated Speed (RPM)	Rated Power (W)	Line to Line Resistance (ohms)	Line to Line Inductance (mH)	Torque Constant (oz-in/A)	Motor Efficiency	Back EMF Voltage (V/kRPM)	Rotor Inertia (oz-in-sec²)	Weight (lbs)	"L" Length (in)
BLY65342S-24V-3000	24	3000	220	0.06	0.07	7.93	-	6.48	0.034000	4.30	2.80
BLY65343S-48V-3200	48	3200	470	0.18	0.6	17	-	-	0.0226	5.73	4.45

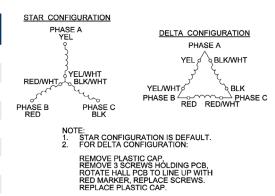
Note: The above specs are for motors hooked up with the star configuration. For different rated speeds, please contact the factory. Custom leadwires, cables, connectors, and windings are available upon request.



L011382



Description	Motor Wire Color		
Hall Supply	Red		
Hall A	Blue		
Hall B	Green		
Hall C	White		
Hall Ground	Black		
Phase A	Yellow, Yel/Wht		
Phase B	Red, Red/Wht		
Phase C	Black, Blk/Wht		



	Hall Sensor Specifications				
	Supply Voltage: 4.5VDC to 28VDC				
	Current, I <sub>off</sub> : 10mA max				
	Current, I <sub>on</sub> : 11.3mA max				
	Rated Sinking Current: 20mA				
	Saturation Voltage: 0.4VDC max @ 25°C				
Output Leakage Current: 10µA					

Output Switching Time @ 25°C Rise, 10% to 90% 1.5µs Fall, 90% to 10% 1.5µs

Output Type: Open Collector

Hall Effect Angle:	120° Electrical Angle	Insulation Class	Class B
Shaft Run Out:	0.05mm	Dielectric Strength	500VDC for one minute
Radial Play:	0.02mm@450g	Insulation Resistance:	100MOhms Min, 500VDC
End Play:	0.08mm@450g	Number of Poles	8
Max. Radial Force:	220N@20mm from the flange	Number of Phase:	3
Max. Axial Force:	60N	Temperature Rise:	70°C
Typical Efficiency:	80%	Life Expectancy:	Over 20,000 hours

