BLU09 - Brushless Motors



- Size 09 BLDC Motor
- High Speed Motor
- Compact Size and Power Density
- Cost-Effective Solution
- Long Life and Highly Reliable
- Cost-Effective Replacement for **Brush DC Motors**
- Can be Customized for
 - Maximum Speed
 - Winding Current
 - Shaft Options
 - Cables and Connectors



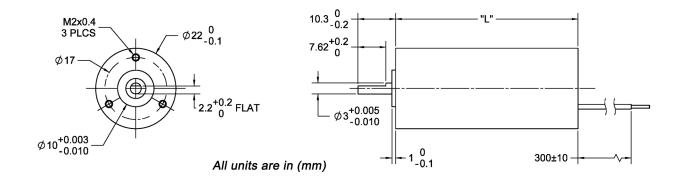
The BLU09 Series Brushless DC Motors come in a compact package with high power density. These motors are cost-effective solutions to many velocity control applications. The sensor-less feature can help simplify your design. With its small foot print, it is great for compact applications. We can also customize the windings to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

	Model #	FRAME Size	Rated Voltage (V)	Max Speed (RPM)	Max Power (W)	Peak Torque (oz-in)	Peak Current (A)	Line to Line Resistance (ohms)	Line to Line Inductance (mH)	Torque Constant (oz-in/A)	Weight (lbs)	Shaft	"L" Length (mm)
	BLU092S-24V-14400	09	24	18000	22	3.68	2.75	5.30	0.34	1.77	0.17	Single	42.93
1	BLU093S-24V-34400	09	24	40000	84	4.94	4.75	0.90	0.05	0.80	0.20	Single	49.8
	BLU093S-32V-34400	09	32	40000	102	5.66	5.00	1.70	0.08	1.07	0.20	Single	49.8

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

L010578





Pł	nases
RED	Phase A
BLK	Phase B
WHT	Phase C

Hall				
Green	Hall Power			
Blue	Hall Gnd			
Brown	Hall A			
Yellow	Hall B			
Orange	Hall C			

Winding Type:	3 Phase, Y Connection	Insulation Resistance:	200M Ohm
Shaft Run Out:	0.02mm	Insulation Class:	Class F
Radial Play:	0.01mm	End Play:	0.1mm
Maximum Radial Force:	16N	Maximum Axial Force:	4N
Dielectric Strength:	500V		

Hall Sensor Specifications

Supply Voltage: 3.8VDC to 30VDC

Current, I_{off}: 10mA max Current, I_{on}: 10mA 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