

# BLU06-SL - Brushless Motors



## FEATURES

- **Size 06 BLDC Motor**
- **Sensorless Design**
- **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**



## DESCRIPTION

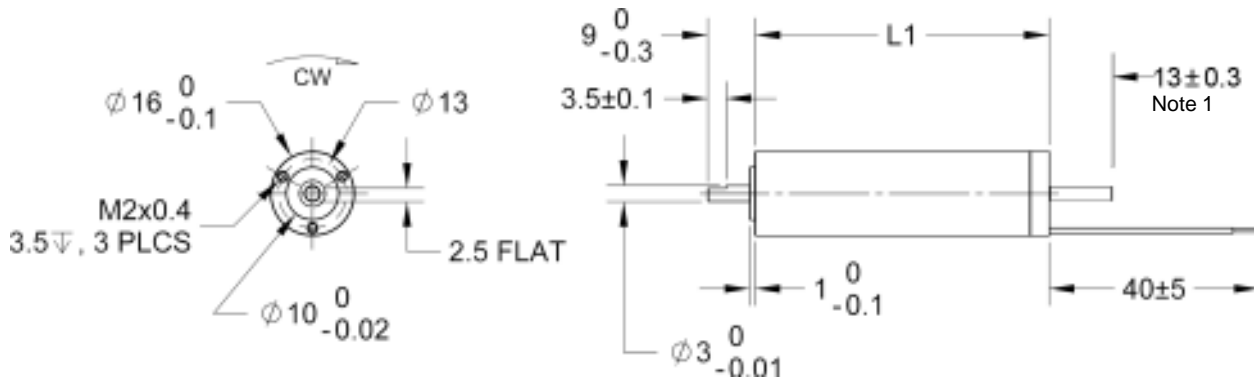
The BLU06-SL Series Brushless DC Motors come in a compact package with high power density. These motors are cost effective solutions to many velocity control applications. The sensor-less feature can help simplify your design. With its small footprint, it is great for compact applications. We can also customize the windings to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

## SPECIFICATIONS

Model #	FRAME Size	Rated Voltage (V)	Max Speed (RPM)	Rated 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)	"L" Length (in)
BLU061S-09V-6200-SL	6	09	6200	1.32	1.320	0.20	8.20	0.74	1.47	0.06	1.18
BLU061S-12V-8500-SL	6	12	8478	2.47	0.393	0.20	10.40	0.73	1.44	0.06	1.18
BLU062S-09V-6200-SL	6	09	6213	1.32	1.320	0.33	8.20	0.51	1.49	0.06	1.26
BLU062S-12V-9000-SL	6	12	9100	2.44	0.362	0.36	7.80	0.51	1.39	0.06	1.26
BLU063S-24V-32000-SL	6	24	32000	30.00	1.500	2.7	1.30	0.07	0.60	0.12	2.20
BLU063S-32V-32000-SL	6	32	32000	35.00	1.500	2.5	2.30	0.11	0.65	0.12	2.20
BLU063D-24V-32000-SL	6	24	32000	30.00	1.500	2.7	1.30	0.07	0.60	0.12	2.20
BLU063D-32V-32000-SL	6	32	32000	35.00	1.500	2.5	2.30	0.11	0.65	0.12	2.20

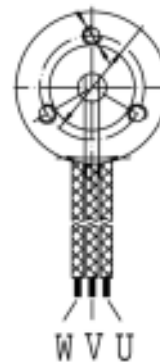
Notes: The 7th character "S" denotes a single shaft, use "D" for double shaft. Custom leadwires, cables, connectors, and windings are available upon request.

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Note 1: Depicts "D" dual shaft option

Phases	
YEL	U
RED	V
BLK	W



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:	10N	Maximum Axial Force:	3N
Dielectric strength:	500V		