

# BLWR13 Series - Brushless DC Motors



## FEATURES

- **Size 13 BLDC Motor**
- **Compact Size and Power Density**
- **Cost Effective Solution**
- **Long Life and Highly Reliable**
- **Can be Customized for**
  - Maximum Speed
  - Winding Current
  - Shaft Options
  - Cables and Connectors
- **CE Certified and RoHS Compliant**



## DESCRIPTION

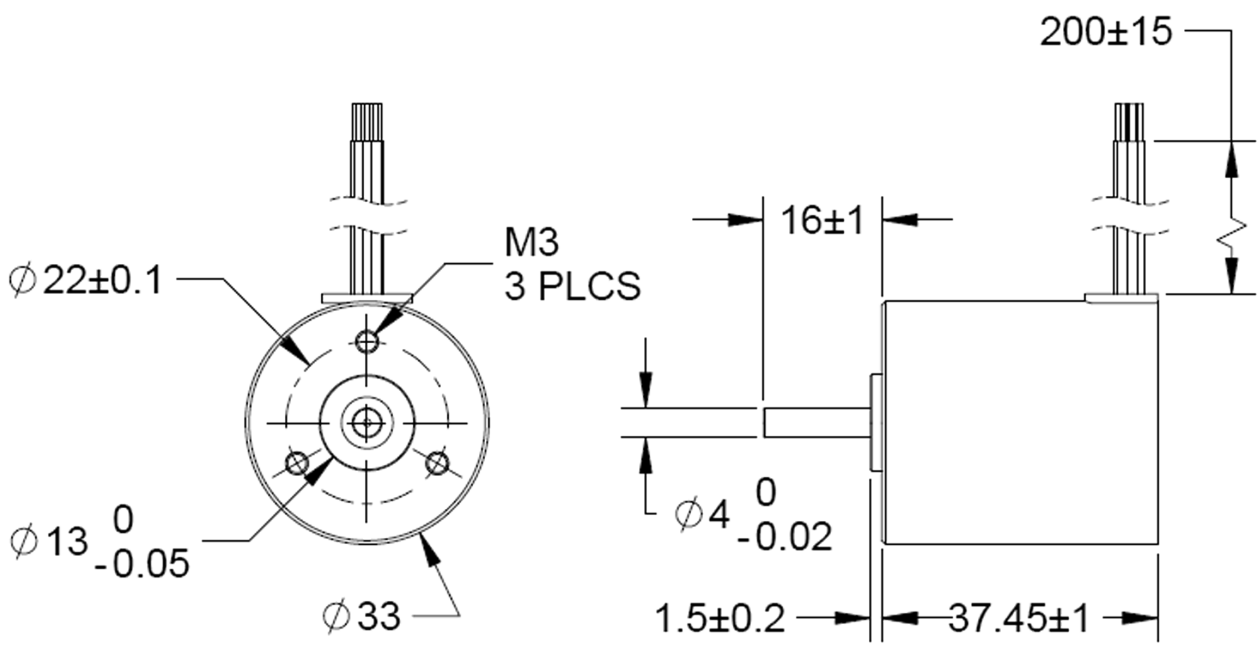
The BLWR13 Series Brushless DC Motors come in a compact package with high power density. These motors are cost effective solutions to many velocity control applications. The star wound motor comes in a standard 8-lead configuration. We can also customize the winding to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

## SPECIFICATIONS

Model #	FRAME Size	Rated Voltage (V)	Rated 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)	Rotor Inertia (oz-in-sec <sup>2</sup> )	Weight (lbs)	"L" Length (in)
BLWR132S-12V-3000	Size 13	12	3000	4	0.18	1.85	4.45	2.00	3.82	0.103705	0.24	1.49
BLWR132S-24V-3000	Size 13	24	3000	7	0.24	1.43	14.20	7.00	3.82	0.280427	0.24	1.49
BLWR132S-24V-4000	Size 13	24	4000	20	0.18	6.56	3.64	1.62	3.24	0.103705	0.24	1.49

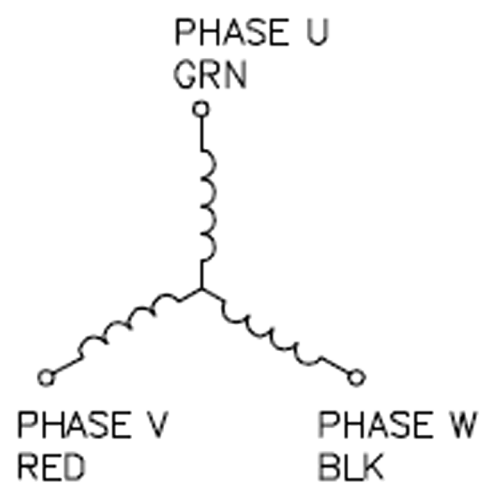
Note: Other speed options, custom leadwires, cables, connectors, and windings are available upon request.

L010587



Dimensions are in mm.

Wire Color	Description
Green	Phase U
Red	Phase V
Black	Phase W
Yellow	Hall +5V
Blue	Hall 1
Orange	Hall 2
Brown	Hall 3
White	Hall Ground



DIMENSIONS

WIRING INFORMATION

SPECIFICATIONS

Winding Type:	Star, 4 Poles	Max. Radial Force:	15N @ 10mm from the flange
Hall Effect Angle:	120 degree electrical angle	Max. Axial Force:	10N
Shaft Run Out:	0.025mm	Insulation Class:	Class B
Radial Play:	0.02mm@450g	Dielectric Strength:	500VDC for one minute
End Play:	0.08mm@450g	Insulation Resistance:	100MOhm, 500VDC