

BLWR17 Series - Brushless DC Motors



FEATURES

- **Size 17 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

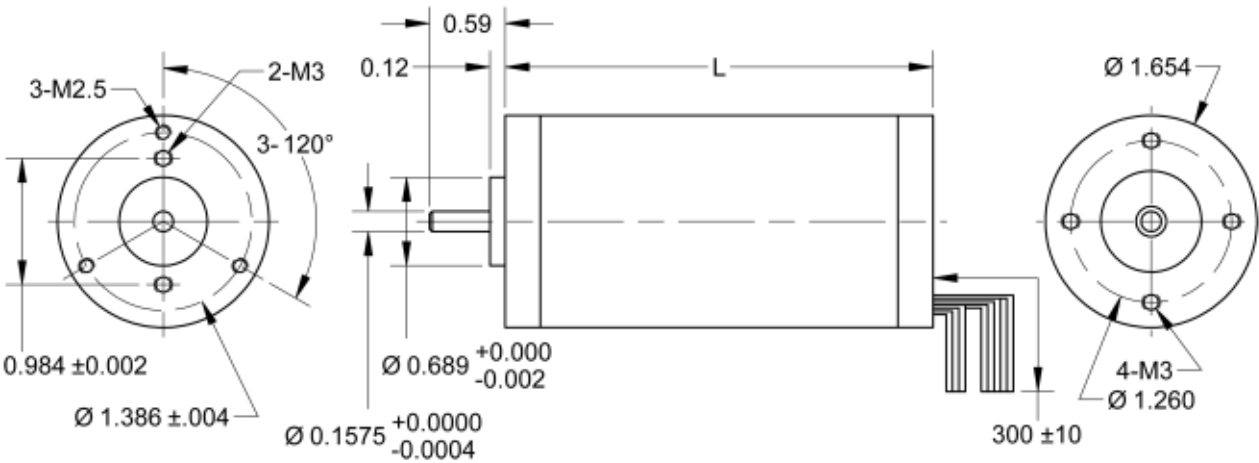
The BLWR17 Series Brushless DC Motors come in a compact package with high power density. These motors are cost effective solutions to many velocity control applications. The star wound motor comes in a standard 8-lead configuration. We can also customize the winding to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

SPECIFICATIONS

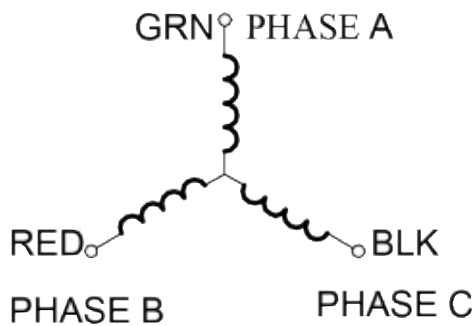
Model #	FRAME Size	Rated Voltage (V)	Rated Speed (RPM)	Rated Power (W)	Peak Torque (oz-in)	Peak Current (A)	Line to Line Resistance (ohms)	Line to Line Inductance (mH)	Torque Constant (oz-in/A)	Rotor Inertia (oz-in-sec ²)	Weight (lbs)	"L" Length (in)
BLWR171S-12V-5000	Size 17	12	5000	10.48	8.5	3.72	1.08	.84	2.28	1.7x10 ⁻⁵	0.36	1.18
BLWR172S-24V-2000	Size 17	24	2000	12.56	8.5	2.62	5.8	6.28	9.7	-	0.76	2.36
BLWR172S-24V-4200	Size 17	24	4200	24.65	25.5	4.67	1.6	1.94	5.4	3.0x10 ⁻⁵	0.76	2.36
BLWR173S-12V-2000	Size 17	12	2000	31.44	21.2	6.45	2.18	2.96	9.8	-	0.88	3.35
BLWR173S-24V-4000	Size 17	24	4000	68.87	63.7	12.23	0.71	0.86	5.21	8.5x10 ⁻⁵	0.88	3.35

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

L010411



DIMENSIONS



Description	Motor Wire Color
Phase A	Green
Phase B	Red
Phase C	Black
Hall Supply	Yellow
Hall A	Blue
Hall B	Orange
Hall C	Brown
Hall Ground	White

WIRING INFORMATION

Winding Type:	Wye, 8 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

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