

- 42mm Round Body
- Compact Size and Power Density
- Cost-Effective Replacement for Brush DC Motors
- Long Life and Highly Reliable
- Can be Customized for
 - Maximum Speed
 - Winding Current
 - Shaft Options
 - Cables and Connectors

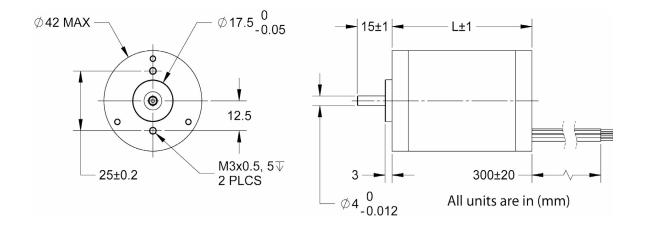


The BLWR17 Series Brushless DC Motors come in a compact package with high power density. These motors are cost-effective solutions to many velocity control applications. The star wound motor comes in a standard 8-lead configuration. We can also customize the winding to perfectly match your voltage, current,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

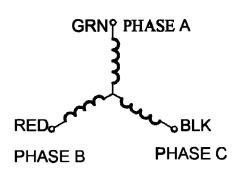
Model #	Rated Voltage (V)	Rated Speed (RPM)	Rated Power (W)	Rated Torque (oz-in)	Peak Torque (oz-in)	Rated Current (A)	Line to Line Resistance (ohms)	Line to Line Inductance (mH)	Torque Constant (oz-in/A)	Rotor Inertia (oz-in-sec²)	Weight (lbs)	"L" Length (mm)
BLWR171S-12V-5000	12	5000	10	2.8	8.5	1.24	1.08	0.84	2.28	0.000221	0.55	30
BLWR172S-24V-2000	24	2000	12	7.9	26	0.82	6.00	6.40	9.70	0.000467	0.88	60
BLWR172S-24V-4200	24	4200	25	7.9	26	1.45	1.60	1.94	5.45	0.000467	0.88	60
BLWR173S-24V-2000	24	2000	31	21	64	2.15	2.18	2.96	9.88	0.000821	1.18	85
BLWR173S-24V-4000	24	4000	62	21	64	4.08	0.71	0.86	5.21	0.000821	1.18	85

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

L010411



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



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



