BLWR23 Series - Brushless DC Motors



- 57mm 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
- CE Certified and RoHS Compliant

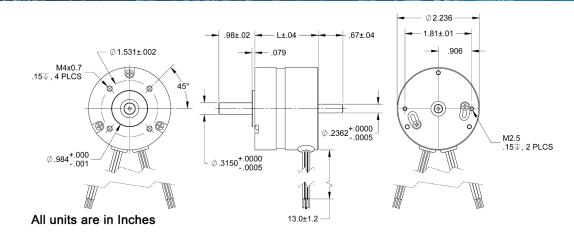


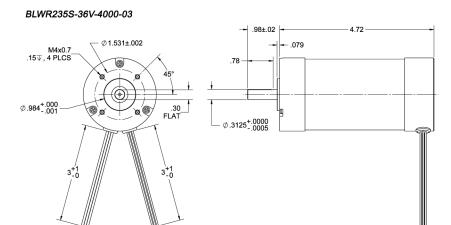
The BLWR23 Series Brushless DC Motors come in a compact package with high power density. These motors are cost-effective solutions to many velocity control applications. They come in five different stack lengths to provide you with just the right torque for your application. A number of windings are available off-the-shelf and the motors can be customized to fit your machine requirements. The motors come 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.

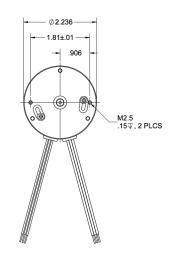
Model #	Rated Voltage (V)	Rated Speed (RPM)	Rated Power (W)	Rated Torque (oz-in)	Peak Torque (oz-in)	Rated Current (A)	Line to Line Resistance (Ohms)	Line to Line In- ductance (mH)	Torque Constant (oz-in/A)	Rotor Inertia (oz-in-sec²)	Weight (lbs)	"L" Length (in)
BLWR231S-36V-4000	36	4000	21	7.8	23.4	1.04	4.2	9.7	7.5	0.00042	0.84	1.72
BLWR232S-36V-4000	36	4000	46	15.6	46.7	1.75	1.5	4.5	8.92	0.00106	1.10	2.11
BLWR233S-36V-4000	36	4000	92	31.2	93.5	3.67	0.64	2.1	8.50	0.00169	1.65	2.90
BLWR234S-36V-4000	36	4000	134	45.3	135.9	5.25	0.45	1.65	8.64	0.00245	2.09	3.69
BLWR235S-36V-4000	36	4000	167	56.6	169.9	6.35	0.38	1.0	8.92	0.00326	2.66	4.47

Note: The 8th character "S" denotes a single shaft, use "D" for double shaft. Custom leadwires, cables, connectors, and windings are available upon request.

L010231

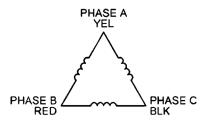






All units are in inches

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



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Supply Voltage: 4.5VDC to 28VDC	
Current, I _{off} : 10mA max	
Current, I _{on} : 11.3mA 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	

Output Ty	ype: Open	Collector
Cutput I	po. Open	Concotor

Fall, 90% to 10% 1.5µs

Winding Type:	Delta, 4 Poles	Max. Radial Force:	75N @ 20mm 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:	100M Ohm, 500VDC