

- NEMA Size 24 BLDC Motors
- 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

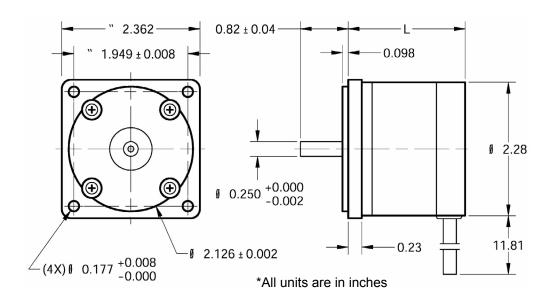


The BLWS24 Series Brushless DC Motors come in a compact package with high power density. These motors are cost effective solutions to many velocity control applications. The motors come in a standard 8-lead configuration. We can also customize the windings to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

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)	Back EMF Voltage (V/ kRPM)	Rotor Inertia (oz-in- sec²)	Weight (lbs)	"L" Length (in)	
BLWS242S-24V-2300	NEMA 24	24	2300	57	78	11	1.4	1.7	7.1	5.5	0.0028	1.4	2.04	

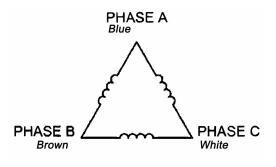
Note: The 8th character "S" denotes a single shaft, use "D" for double shaft. Custom leadwires, cables, connectors, and windngs are available upon request.

L010797



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

Hall Sensor Specifications
Supply Voltage: 4.5VDC to 28VDC
Current, I <sub>off</sub> : 10mA max
Current, I <sub>on</sub> : 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 Fall, 90% to 10% 1.5µs
Output Type: Open Collector



Winding Type:	Delta, 4 Poles	Max. Radial Force:	75N @ 20mm from the Flange		
Hall Effect Angle:	120 Degree Electrical Angle	Max. Axial Force:	15N		
Shaft Run Out:	0.025mm	Insulation Class:	Class B		
Radial Play:	0.02mm@460g	Dielectric Strength:	500VDC for one Minute		
End Play:	0.025mm@4000g	Insulation Resistance:	100MOhm, 500VDC		