

BLDC24

BRUSHLESS DC MOTOR



FEATURES

- 24mm Size
- 3-Phase, 8 Pole Motor
- Ball Bearing Design
- Strong NFeB Magnets
- Long Life - 20,000 Hour Operation
- Cost Effective Replacement For Brush DC Motors
- Can be Customized for:
 - *Operating Voltage & Rated Speed
 - *Cables and Connectors

DESCRIPTION

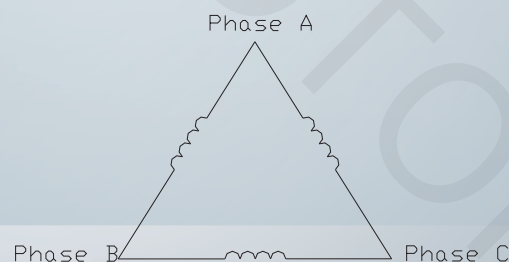
The BLDC24 Series Brushless DC Motors come in a compact package with high power density. These motors are cost effective solutions to many velocity control applications. The star wound motor comes in a standard 8-lead configuration. We can also customize the winding to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

Electrical Specification

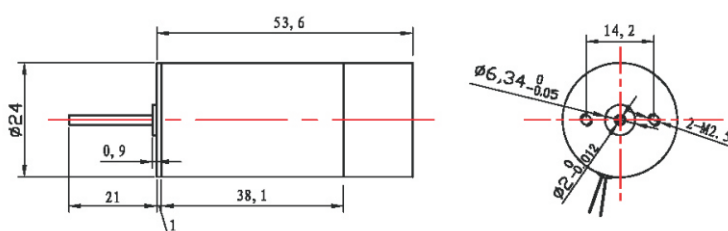
Model	Rated Voltage (V)	Rated Speed (RPM)	Rated Power (W)	Peak Torque (N.m)	Rated Torque (N.m)	Torque Constant (N.m/A)	Rotor Inertia (N.m ²)	Weight (Kg)	"L" Length (mm)
BLDC24-01	24	2800	2.5	/	/	/	/	0.08	/
BLDC24-02	24	5000	5	/	/	/	/	0.08	/
BLDC24-03	24	4000	3.6	/	/	/	/	0.08	/
BLDC24-04	12	3000	1.5	/	/	/	/	0.08	/

Wiring information

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



Mechanical Dimension



(All units are mm)

Specifications

- Winding Type: Delta, 8poles
- Hall effect Angle: 120 degree electrical angle
- Shaft Run Out: 0.025mm
- Radial Play: 0.02mm@450g
- End Play: 0.08mm@450g
- Max.Radial Force: 10N@10mm from the flange
- Max.Axial Force: 2N
- InsulationClass: ClassB
- Dielectric Strength: 500VDC for one minute
- Insulation Resistance: 100MOhm, 500VDC