

36 Series Brushless DC Motor

This is a brushless DC motor with a small form factor. It delivers high torque up to 100mN.m, a wide speed range, and high efficiency.



Overview

High-Efficiency 36 Series BLDC Motor

The 36 Series Brushless DC Motor is a compact and high-performance solution designed for applications requiring high torque up to 100mN.m and a wide speed range. Featuring a robust cylindrical design with a precision-engineered rotor and stator, this motor offers high efficiency and extended operational life. Its versatile mounting options and reliable power delivery make it ideal for professional-grade equipment and automated systems.

Key Performance Metrics

Key Performance Metrics

4000 rpm

Rated Speed

24 V

Operating Voltage

0.1 Nm

Max Rated Torque

40 W

Max Rated Power

Technical Specifications

Electrical Specification by Model

Model	Rated Power (W)	Rated Torque (Nm)	Rated Current (A)	Weight (Kg)	Length (mm)
36DMW50-2440	20	0.05	1.3	0.2	50
36DMW60-2440	30	0.075	1.8	0.25	60
36DMW70-2440	40	0.1	2.3	0.3	70

General Specifications

Insulation Class

Class B

Winding Type

Star

Hall Effect Angle

120 degree electrical angle

Dielectric Strength

500VDC for one minute

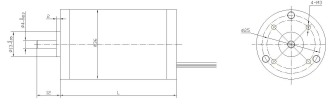
Shaft Run Out

0.025 mm

Ambient Temperature

-20°C to +40°C

Mechanical Dimensions



Detailed mechanical dimensions including $\text{Ø}36$ diameter and M3 mounting interface.

Motor Diameter

36 mm

Mounting Flange

$\text{Ø}25$ with 4-M3 threaded holes

Wiring Configuration

Lead Wire Functions

- Phase U (Red, 20AWG)
- Phase V (Yellow, 20AWG)
- Phase W (Black, 20AWG)
- VCC +5V (Red, 26AWG)
- Hall A (Blue, 26AWG)
- Hall B (Green, 26AWG)
- Hall C (White, 26AWG)
- GND (Black, 26AWG)