

70 Series Brushless DC Motor

This brushless DC motor delivers high torque up to 1.5Nm. It features a wide speed range, high efficiency, and long life.



Overview

70 Series Brushless DC Motor

The 70 Series Brushless DC Motor is engineered for high-performance motion control applications, offering a robust combination of high torque density and efficiency. Designed with a wide speed range and long service life, these motors are ideal for robotics, industrial automation, and precision machinery. The series features a compact, reliable construction with integrated Hall effect sensors for accurate feedback.

General Specifications

Insulation Class

Class B

Winding Type

Star

Hall Effect Angle

120 degree

Shaft Run Out

0.025 mm

Dielectric Strength

500VDC for one minute

Operating Temperature

-20 to +40°C

Electrical Specifications

Performance Overview

Model	Rated Power (W)	Rated Torque (Nm)	Rated Current (A)
70DMW86-4830	200	0.65	5.5
70DMW116-4830	350	1.2	9.7
70DMW136-4830	450	1.5	12.9

Common Electrical Parameters

48 V

Voltage

8

Number of Poles

3600 rpm

No Load Speed

3000 rpm

Rated Speed

Wiring Configuration

Wiring Diagram

Lead Color	Function	Gauge
RED	Phase U	18AWG
YEL	Phase V	18AWG
BLA	Phase W	18AWG
RED	+5V	26AWG
BLU	Hall A	26AWG
GRE	Hall B	26AWG
WHI	Hall C	26AWG
BLA	GND	26AWG