

42DMW61 NEMA17 Gearless Brushless Motor



The DCM4100 is a 24 volt brushless DC motor, generating 1.27 Kg-cm of torque at 4000 RPM.

Brushless DC motors provide convenient position and velocity control through the use of their built in hall-effect sensor. They run quieter and last longer than their brushed counterparts.

Connection

This motor must be controlled by a brushless DC motor controller that has the capability to both send control signals to the three motor wires, and also read the hall-effect feedback from the other five wires. Have a look at the Compatible Products tab for a list of compatible Phidget controllers.

Comes Packaged with



This motor comes with a 5-Pin molex connector soldered to the hall effect wires, and ferrules crimped onto the motor wires so it can quickly and easily be connected to the Brushless DC Motor Phidget as shown in the functional picture.

Product Specifications

Motor Properties

Motor Type	Brushless DC Motor
Number of Poles	8
Manufacturer Part Number	42DMW61-2440
Output Power (Mechanical)	50 W
Rated Torque	1.3 kg·cm

Maximum Speed at Rated Voltage 4000 RPM

Electrical Properties

Rated Current	3.5 A
Rated Voltage	24 V DC
Coil Resistance	740 mΩ

Physical Properties

Mounting Plate Size	17
Operating Temperature Min	-20 °C
Operating Temperature Max	40 °C