

12V/0.5Kg-cm/670RPM 3.7:1 DC Gear Motor



Product Description

The 3265 is a 12 volt gear motor, generating 0.54 Kg-cm of torque at 670 RPM. It's a standard-sized motor suitable for low-torque, high-speed applications. Since this motor has a lower power output for its size, you can expect it to have a longer lifespan than other motors.

The planetary gearbox on this motor is more sophisticated than a typical spur gearbox and will provide greater efficiency, higher torque, and quieter motor operation.

Motor Controller and Connection

The 3265 DC motor connects to either of the following controllers:

- 1064 – PhidgetMotorControl HC
- 1065 – PhidgetMotorControl 1-Motor

Related Products

- 3265E – 12V/0.5Kg-cm/670RPM 3.7:1 DC Gear Motor w/ Encoder
- 3266 – 12V/1.9Kg-cm/175RPM 14:1 DC Gear Motor
- 3267 – 12V/6.6Kg-cm/49RPM 51:1 DC Gear Motor
- 3268 – 12V/17.3Kg-cm/18RPM 139:1 DC Gear Motor

Resources

- DC Motor and Controller Primer
- Mechanical Drawing

Product Specifications

Motor Properties

Motor Type	DC Motor
Output Power (Mechanical)	3.8 W
Maximum Speed at Rated Voltage	670 RPM
Rated Torque	540 g·cm
Stall Torque	3.4 kg·cm

Electrical Properties

Rated Voltage	12 V DC
Rated Current	650 mA
Stall Current	2.4 A

Physical Properties

Shaft Diameter	8 mm
Weight	416 g

Gearbox Specifications

Gearbox Type	Planetary
Gear Ratio	$3^{12}_{17} : 1$
Number of Gear Trains	1
Maximum Strength of Gears	9 kg·cm
Shaft Maximum Axial Load	50 N
Shaft Maximum Radial Load	35 N

