

12V/0.2Kg-cm/1080RPM 3.7:1 DC Gear Motor



Product Description

The 3261 is a 12 volt gear motor, generating 0.24 Kg-cm of torque at 1080 RPM. It's a small, inexpensive motor suitable for low torque, high speed applications. This motor is quite compact considering the amount of power it can output.

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 3261 DC motor connects to either of the following controllers:

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

You'll need to solder wires to the contacts of the motor in order to connect it to a controller.

Related Products

- 3261E – 12V/0.2Kg-cm/1080RPM 3.7:1 DC Gear Motor w/ Encoder
- 3262 – 12V/0.9Kg-cm/285RPM 14:1 DC Gear Motor
- 3263 – 12V/3.0Kg-cm/78RPM 51:1 DC Gear Motor

- 3264 – 12V/8.4Kg-cm/28RPM 139:1 DC Gear Motor

Resources

- DC Motor and Controller Primer
- Mechanical Drawing

Product Specifications

Motor Properties

Motor Type	DC Motor
Output Power (Mechanical)	2.9 W
Maximum Speed at Rated Voltage	1080 RPM
Rated Torque	240 g·cm
Stall Torque	1.3 kg·cm

Electrical Properties

Rated Voltage	12 V DC
Rated Current	410 mA
Stall Current	1.5 A

Physical Properties

Shaft Diameter	6 mm
Weight	144 g
Recommended Wire Size (Motor)	20 – 25 AWG

Gearbox Specifications

Gearbox Type	Planetary
Gear Ratio	$3^{12}_{17} : 1$

Number of Gear Trains	1
Maximum Strength of Gears	6 kg·cm
Shaft Maximum Axial Load	35 N
Shaft Maximum Radial Load	25 N