

12V/1.6Kg-cm/23RPM 100:1 DC Gear Motor



Product Description

The 3257 is a 12 volt gear motor, generating 1.63 Kg-cm of torque at 23 RPM. It is very efficient for its size, so less power is lost in the form of heat.

This family of motors (3254, 3255, 3256, 3257) have the same gearbox type and mounting metrics as the (3258, 3259, 3260) family of motors.

Motor Controller and Connection

The 3257 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

- 3257E – 12V/1.6Kg-cm/23RPM 100:1 DC Gear Motor w/ Encoder
- 3254 – 12V/0.2Kg-cm/230RPM 10:1 DC Gear Motor
- 3255 – 12V/0.3Kg-cm/127RPM 18:1 DC Gear Motor
- 3256 – 12V/0.8Kg-cm/46RPM 50:1 DC Gear Motor

Resources

- DC Motor and Controller Primer
- Mechanical Drawing

Product Specifications

Motor Properties

Motor Type	DC Motor
Output Power (Mechanical)	590 mW
Maximum Speed at Rated Voltage	23 RPM
Rated Torque	1.6 kg·cm
Stall Torque	10.2 kg·cm

Electrical Properties

Rated Voltage	12 V DC
Rated Current	90 mA
Stall Current	260 mA

Physical Properties

Shaft Diameter	6 mm
Weight	136 g
Recommended Wire Size (Motor)	20 – 26 AWG

Gearbox Specifications

Gearbox Type	Spur
Gear Ratio	100 : 1
Number of Gear Trains	4
Maximum Strength of Gears	12 kg·cm
Shaft Maximum Axial Load	35 N
Shaft Maximum Radial Load	25 N

