

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



Product Description

The 3261E 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.

This motor comes equipped with an E4P US Digital Encoder, which keeps track of the motor's rotation, allowing you to control your motor precisely.

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.

Connection

This motor can be controlled by a DC motor controller. You can find a list of suitable controllers on the Connection & Compatibility tab.

Comes packaged with

- [3032 – E4P Encoder Cable](#)

Product Specifications

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Motor Properties

Motor Type	DC Motor with Encoder
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	147 g
Recommended Wire Size (Motor)	20 – 25 AWG

Gearbox Specifications

Gearbox Type	Planetary
Gear Ratio	3 12 \square 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
Backlash Error	3°

Encoder Specifications

Encoder Resolution	360 CPR
Connector Type	E4P
Current Consumption Min	27 mA
Supply Voltage Min	4.5 V DC
Supply Voltage Max	5.5 V DC