

12V Low noise DC Motor 146RPM w/Encoder

Product Code: FIT0277

Supplier: DFRobot

Introduction

This is DFRobot customized high quality DC motor. The best part of this motor is that it is almost unaudible and high torque output motor with optical encoder buildin. The optical encoder gives 663 pluse per rotation which is able to sensor 0.54 degree rotation from the shaft. The resolutiont can meet a general PID speed control requirements.

Specifications:

- Model:28PA51G
- Working voltage:12V
- No load RPM (before gearbox):8000 rpm
- Gear ratio: 51:1
- No load RPM (after gearbox): 146rpm@12V
- No load current: @ 12V: 0.23A
- Stall current:3.6A
- Rated torque @ 12V: 10kg.cm (139oz.in)
- Encoder Resolution: 13 PPR (663 PPR for gearbox shaft)
- Two phase hall encoder
- Size:123x36x36mm
- Weight: 270g

