

FEATURES

- Brushed DC motors with a spur gearhead
- Output speed of 54rpm
- Maximum output torque of 352 gcm
- Supply voltage of 3VDC
- Current rating of 250mA
- Power rating 0.29 W
- Shaft diameter of 3mm
- Length of 24.25 mm
- Width of 12 mm
- Depth of 10 mm
- Weight of 10 g
- Metal core

RS PRO Brushed Geared DC Geared Motor, 0.58 W, 3 V, 9 Ncm, 45 rpm, 3mm Shaft Diameter

RS Stock No.: 834-7647



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

These 3 V brushed DC geared motors include a spur gearhead that provides power and practicality for low-torque processes. Their simple design and quiet operation make them a good choice for industrial and modelling uses.

The motors measure 12 mm in width and weigh only 10 g, making them both space-saving and lightweight. The gears have bronze output bearings that resist friction and general wear-and-tear, so the motors are well suited to heavy-duty industrial environments. Their simplified brushed motor design delivers smooth motion at any operating speed. These motors have high-quality bronze bearings and metal cores, meaning they operate safely at temperatures from -10°C to 60°C. What's more, spur gears are less likely to slip during operation, decreasing the risk of machine failure.

General Specifications

DC Motor Type	Brushed Geared
Output Speed (No Load)	54rpm
Gearhead Type	Spur
Gear Ratio	298:1
Applications	Small appliances, such as blenders and food processors

Electrical Specifications

Power Rating	0.29W
Supply Voltage	3VDC
Current Rating (No Load)	320mA
Maximum Output Torque	352g.cm
Rated Tolerance Torque	1.0kgf-cm Maximum
Max momentary Tolerance Torque	3.0kgf-cm
Efficiency	59%

Reduction Table RPM Supply Voltage	1.5V	3V
Speed	27rpm	54rpm

Mechanical Specifications

Shaft Diameter	3mm
Core Construction	Metal
Dimensions	29.25mm x 10mm x 12mm
Length	24.25mm
Width	12mm
Depth	12mm
Reduction Ratio	1/298
Weight	10g

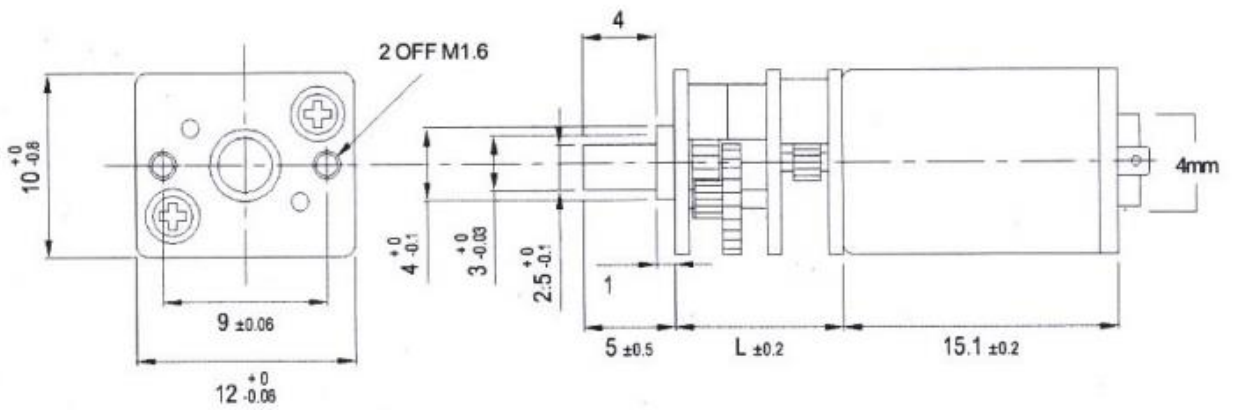
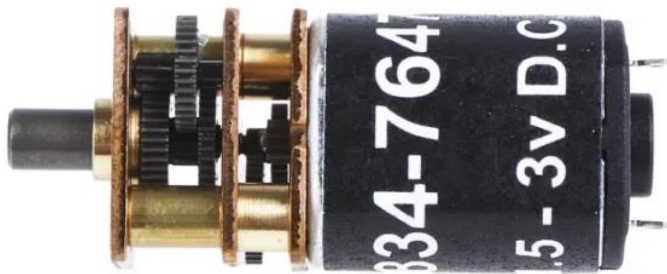
Gearbox Housing Material	Plastic
Backlash at No-Load	<1.5°
Bearing at Output	Bronze
Radial Load (10mm from flange)	<0.4kgf
Shaft Axial Load	<0.2kgf
Shaft Press Fit Force Max.	<2kgf
Radial Play of Shaft	<0.06mm
Thrust Play of Shaft	<0.2mm

Operation Environment Specifications

Operating Temperature Range	-10°C to +60°C
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Approvals

Standards Met	RoHS Compliant
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Operating relative humidity 20% - 85%
 Operating temperature range -10°C ~ +60°C