

FEATURES

- Brushed DC motors with a planetary gearhead
- Output speed of 228rpm
- Maximum output torque of 2399 gcm
- Supply voltage of 12VDC
- Current rating of 990mA
- Power rating 7.85 W
- Shaft diameter of 6mm
- Length of 73.9 mm
- Width of 32 mm
- Weight of 213 g
- Iron core

RS PRO Brushed Geared DC Geared Motor, 41.3 W, 12 V, 78 Ncm, 194 rpm, 6mm Shaft Diameter

RS Stock No.: 834-7669



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

Looking for a motor that's efficient at low speeds but still provides a high starting torque? These 12 V DC geared motors come complete with a planetary gearhead that enhances torque while optimising efficiency for low-speed operations.

Like all products from the RS PRO range, these motors boast high-quality construction from premium materials. The gears have sturdy sintered bronze bearings that are self-lubricating, meaning they reduce friction and require less maintenance. The motors use a brush to deliver current to the motor windings, which helps ensure smooth motion at lower speeds. Thanks to their robust construction, each DC geared motor can withstand prolonged use in heavy-duty environments despite their compact size and weight. They have iron cores that act as heat sinks, so they're less prone to temperature overloads.

General Specifications

DC Motor Type	Brushed Geared
Output Speed (No Load)	194rpm
Gearhead Type	Planetary
Applications	Small appliances, such as blenders and food processors

Electrical Specifications

Power Rating	41.3W
Supply Voltage	12VDC
Current Rating (No Load)	990mA
Maximum Output Torque	78Ncm
Rated Tolerance Torque	8.0kgf-cm Maximum
Max momentary Tolerance Torque	24.0kgf-cm
Efficiency	60%

Reduction Table RPM Supply Voltage	4.5V	6V	9V	12V	15V
Speed	86rpm	114rpm	171rpm	228rpm	285rpm

Mechanical Specifications

Shaft Diameter	6mm
Core Construction	Iron Core
Dimensions	32mm (Dia.) x 71mm x 93mm
Length	71mm
Width	32mm (Dia.)
Depth	93mm
Reduction Ratio	1/51
Weight	213g

Gearbox Housing Material	Metal
Backlash at No-Load	<2.5°
Bearing at Output	Sleeve bearings
Radial Load (10mm from flange)	<3kgf
Shaft Axial Load	<2.5kgf
Shaft Press Fit Force Max.	<10kgf
Radial Play of Shaft	<0.08mm
Thrust Play of Shaft	<0.3mm

Approvals

Standards Met	RoHS Compliant
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