

FEATURES

- 12 V dc Supply Voltage
- Sintered bronze bearings
- Spur gear head
- All ratios with 4mm output shaft RE280, RE280/1 and RE280/5 motors available
- Maximum 2° no load backlash

RS PRO, 12 V dc, 59 Ncm, Brushed DC Geared Motor, Output Speed 98 rpm

RS Stock No.: 238-9670



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

This miniature gearbox is of steel and brass construction with brass gears and is mounted on a 1mm thickness steel bracket. It incorporates high quality three pole motor with sleeved bearings. The design and construction of the unit make it suitable for a host of model and light industrial applications

General Specifications

DC Motor Type	Brushed
Output Speed (No Load)	98rpm
Gearhead Type	Spur
Application	Power tools, Water pumps, Camera Systems ,Adjusting devices,RoboticsFans

Electrical Specifications

Power Rating	19.8W
Supply Voltage	12V dc
Current Rating (No Load)	2.81mA
Maximum Output Torque	59Ncm
Rated Tolerance Torque	6kgf-cm Maximum
Max momentary Tolerance Torque	18 kgf-cm
Efficiency	59%

Mechanical Specifications

Shaft Diameter	6mm
Core Construction	Iron Core
Length	80.7mm
Width	35.5 (Dia.)mm
Reduction Ratio	1/150
Weight	255g

Gearbox Housing Material	Metal
Backlash at No-Load	< 2°
Bearing at Output	Sleeve bearings
Radial Load (10mm from flange)	< 1kgf
Shaft Axial Load	< 0.7kgf
Shaft Press Fit Force Max.	< 20kgf
Radial Play of Shaft	< 0.05mm
Thrust Play of Shaft	< 0.35mm

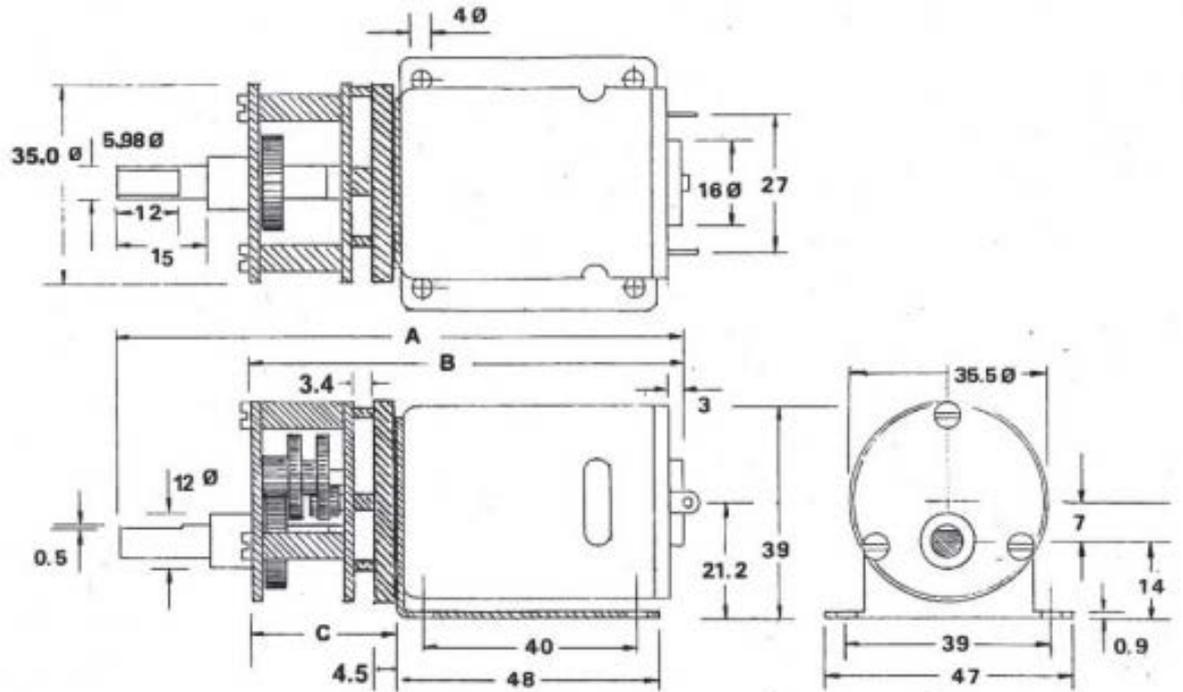
Approvals

Compliance/Certifications	2011/65/EU and 2015/863
Standards Met	ANSI/ESD S20.20:2014 and BS EN 61340-5-1:2007



Reduction Table RPM SUPPLY VOLTAGE	4.5v	6v	9v	12v	15v
238-9670	37	49	74	98	123

Note: Motor speeds may vary by (+) or (-) 12.5%



Ratio	A	B	C
148:1	105.7mm	80.7mm	28.7mm