

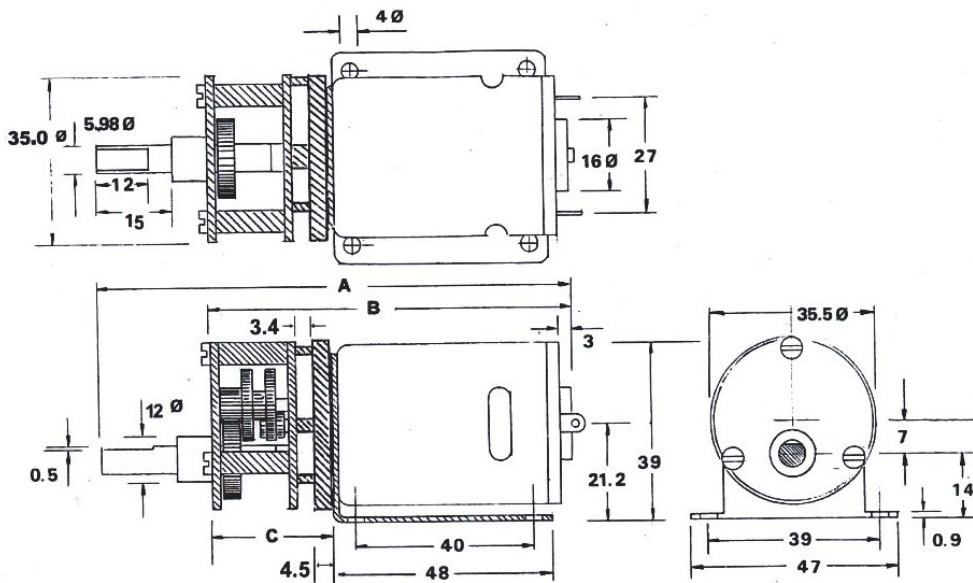
**Datasheet**

# RS PRO, 12 V dc, 6000 gcm, Brushed DC Geared Motor, Output Speed 4.8 rpm

Stock No: 417-9649

**Specifications:**

<b>Output Speed</b>	<b>4.8 rpm</b>
Supply Voltage	12 V dc
Maximum Output Torque	6000 g.cm
DC Motor Type	Brushed
Shaft Diameter	6mm
Power Rating	19.8 W
Gearhead Type	Spur
Length	85.7mm
Width	39mm
Current Rating	2.8A
Weight	262g



Operating relative humidity 20% ~ 85%  
 Operating temperature range -10°C ~ +60°C

Ratio	A	B	C
3000:1	110.7mm	85.7mm	33.7mm

Gearbox Housing material	Metal
Backlash at no-load	< 2°
Bearing at output	Sleeve bearings
Radial load (10mm from flange)	< 1 kgf
Shaft axial load	< 0.7 kgf
Shaft press fit force max	< 20 kgf
Radial play of shaft	< 0.05mm
Thrust play of shaft	< 0.35mm

Reduction Ratio	Rated tolerance Torque	Max momentary Tolerance Torque	Efficiency
1/3000	6 kgf-cm Max.	18 kgf-cm	48%

Reduction Table RPM SUPPLY VOLTAGE	4.5v	6v	9v	12v	15v
417-9649	1.8	2.4	3.6	4.8	6

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