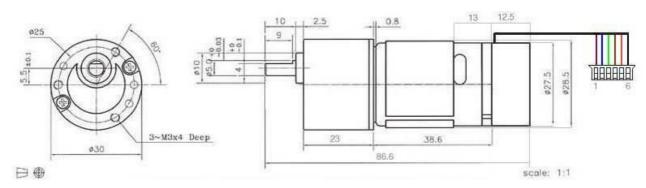
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# EMG30, mounting bracket and wheel specification



The EMG30 (encoder, motor, gearbox 30:1) is a 12v motor fully equipped with encoders and a 30:1 reduction gearbox. It is ideal for small or medium robotic applications, providing cost effective drive and feedback for the user. It also includes a standard noise suppression capacitor across the motor windings.

#### Measurements



## Connector

The EMG30 is supplied with a 6 way JST connector (part no PHR-6) at the end of approx 90mm of cable as standard. The connections are:

Wire colour	Connection
Purple (1)	Hall Sensor B Vou
Blue (2)	Hall sensor A Vout
Green (3)	Hall sensor ground
Brown (4)	Hall sensor Vcc
Red (5)	+ Motor
Black (6)	- Motor

note that pull up resistors (we used 4k7) are required on the hall sensor outputs, and wires are the colours from the actual cable.

#### specification

Rated voltage Rated torque 1.5kg/cm Rated speed 170rpm 530mA Rated current No load speed 216 No load current 150mA Stall Current 2.5A Rated output 4.22W

Encoder counts per output shaft turn

Measured Shaft Speed when used off-load with MD23 and 12v supply.

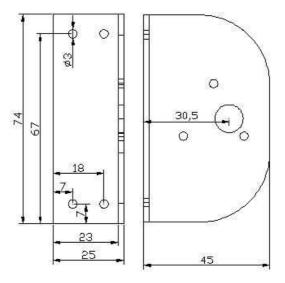
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Minimum Speed 1.5rpm Maximum Speed 200rpm

### **EMG30 Mounting Bracket**

Providing easy mounting of the EMG30 to the robot, the bracket is made from a 2mm thick strong aluminum and finished in blue enamel.





Wheel 100
A 100mm diameter wheel with 5mm diameter hub for easy attachment to the EMG30, the wheel has a 26mm wide rubber tread

