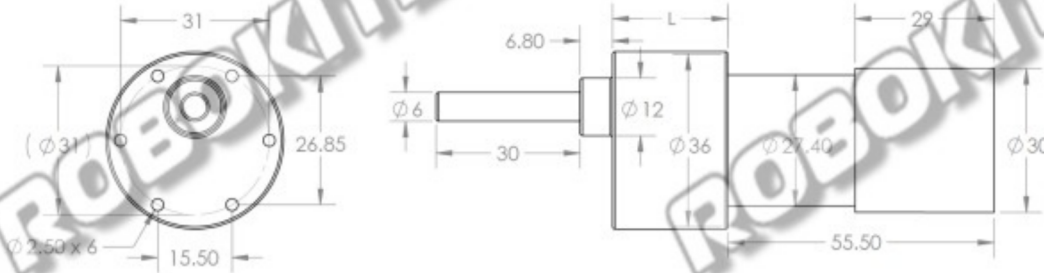


Model Number
RMCS-3013

**Johnson Quad Encoder Geared DC
Motor 12V 100RPM**

Mechanical Drawing (Dimensions are in mm)



| | |
|--------|----------|
| 10RPM | L=28.5mm |
| 30RPM | L=28.5mm |
| 60RPM | L=26.5mm |
| 100RPM | L=26.5mm |
| 200RPM | L=25mm |
| 300RPM | L=25mm |
| 600RPM | L=22mm |
| 900RPM | L=22mm |

Technical specifications of Motor

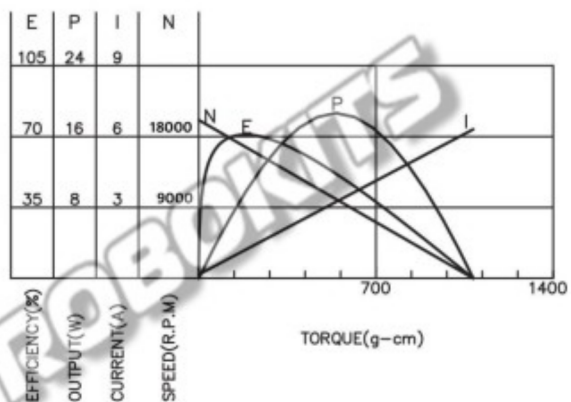
| | |
|-----------------------------------|--------------------------------|
| Motor Type | Johnson DC Geared Motor |
| Operating voltage | 12V DC |
| Motor Speed at Output Shaft (RPM) | 100RPM |
| Stall Torque(Kgcm) | 27.18Kgcm |
| Rated Torque(Kgcm) | 12.5Kgcm |
| Gear Ratio | 1 : 180 |
| CPR at Output Shaft of Motor | 9360 |
| Weight | 180gm |

Encoder Pinouts

| | |
|----------------|----------------|
| Encoder Type | Quad Encoder |
| Quad Encoder | 13 Hall Sensor |
| Base Motor CPR | 13*4=52 |
| Orange | EncA |
| Red | EncB |
| Yellow | Motor+ |
| Green | Motor- |
| Brown | +5V DC |
| Black | Gnd |

Base Motor Specifications

| | |
|---------------------|------------------|
| Nominal voltage(V) | 12V |
| No-Load Speed (RPM) | 18000 |
| Rated Torque (gcm) | 151 |
| No-load current (A) | 0.8A |
| Load current(A) | up to 7.5 A(Max) |



Base Motor Characteristic Graph



RHINO