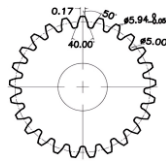
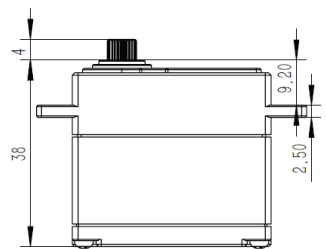
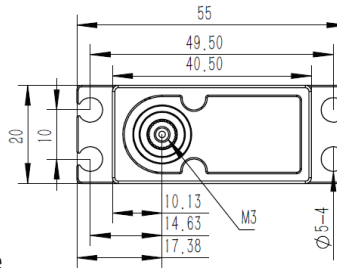


## CM4315MG Technical Specification



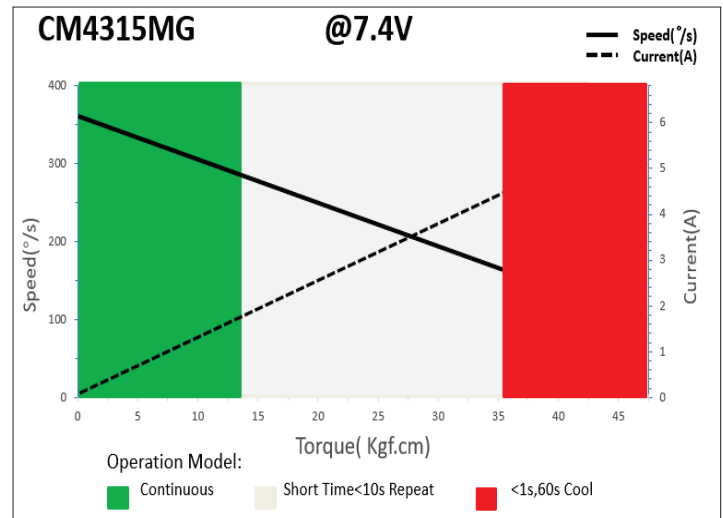
6mm25T Output Shaft Spline



### 1. Operating Data

|                      |                    |
|----------------------|--------------------|
| Rated Voltage        | DC7.4V             |
| Voltage Range        | DC4.8V-8.4V        |
| Torque               | 25Kgf.cm@4.8V      |
|                      | 30Kgf.cm@6.0V      |
|                      | 36Kgf.cm@7.4V      |
|                      | 43Kgf.cm@8.4V      |
| Speed                | 0.23sec/60°@4.8V   |
|                      | 0.19sec/60°@6.0V   |
|                      | 0.16sec/60°@7.4V   |
|                      | 0.15sec/60°@8.4V   |
| Start Current        | 3.00A@4.8V         |
|                      | 3.90A@6.0V         |
|                      | 4.80A@7.4V         |
|                      | 5.05A@8.4V         |
| Working Frequency    | 1520us/333Hz       |
| Default Travel Angle | ±50° =100° Total   |
| Temperature Range    | -10°C.....+65°C    |
| Soft Start           | Programmable       |
| Programmable         | Yes                |
| Motor Type           | Coreless DC Motor  |
| Case Material        | Aluminum Alloy     |
| Gear Set Material    | Hardened Steel     |
| Position Sensor      | Potentiometer      |
| Ball Bearing         | 2BB                |
| Waterproof           | IP65               |
| Case Dimensions      | 40.5*20*38mm±0.2mm |
| Weight               | 70g±10%            |

### 2. Performance



### 3. Command signal PWM Command Interface

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| Signal Voltage             | HIGH: min.3.3V, max.5.0V<br>Low: min.0.0V, max.1.5V |
| Pulse Lengths              | 900us-2100us                                        |
| Pulse Lengths for Position | 1000us/1500us/2000us<br>-50° 0°/+50°                |

### 4. Electrical Connection

| Pin Assignment |   |        |        |                |
|----------------|---|--------|--------|----------------|
|                | 1 | Orange | Signal | PWM Command    |
|                | 2 | Red    | DC+    | Supply Voltage |
|                | 3 | Brown  | DC-    | Supply Ground  |