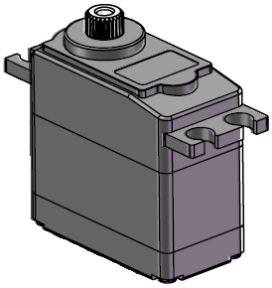
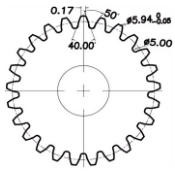
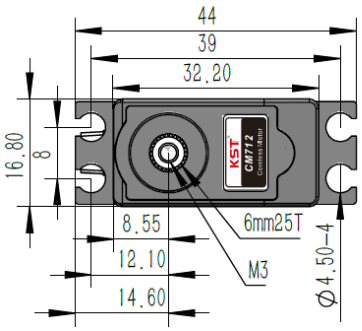
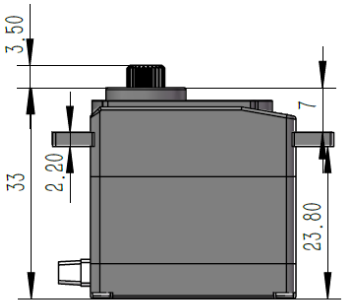
# CM712 Technical Specification





6mm25T
Output Shaft Spline

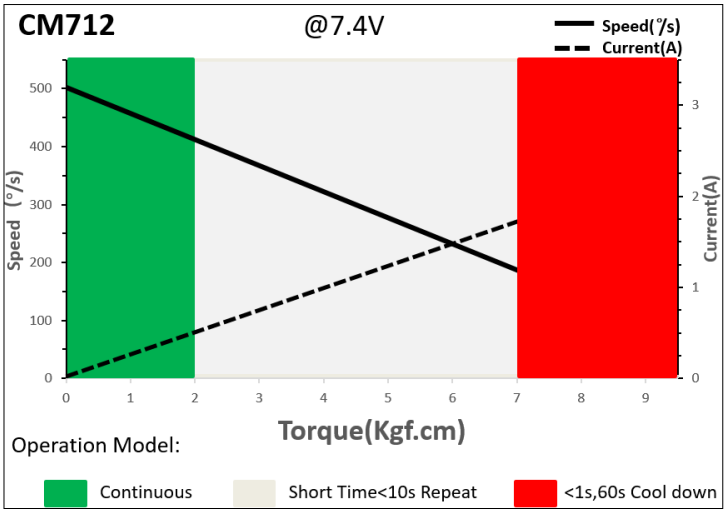



## 1. Operating Data

| | |
|---|---|
| Rated Voltage | DC7.40V |
| Voltage Range | DC4.80V-8.40V |
| Torque | 5.00Kgf.cm@4.80V |
| | 6.00Kgf.cm@6.00V |
| | 7.00Kgf.cm@7.40V |
| | 8.00Kgf.cm@8.40V |
| Speed | 0.19sec/60°@4.80V |
| | 0.15sec/60°@6.00V |
| | 0.12sec/60°@7.40V |
| | 0.10sec/60°@8.40V |
| Stalling Current | 1.50A@4.80V |
| | 1.80A@6.00V |
| | 2.05A@7.40V |
| | 2.35A@8.40V |
| Working Frequency | 1520us/333Hz |
| Default Travel Angle | ±50° =100° Total |
| Temperature Range | -10℃……+65℃ |
| Soft Start | Programmable |
| Programmable | Yes |
| Motor Type | Coreless Motor |
| Case Material | Plastic |
| Gear Set Material | Metal Gear |
| Position Sensor | Potentiometer |
| Ball Bearing | 2BB |
| Case Dimensions | 32.2*16.8*33mm±0.2mm |
| Weight | 32g±10% |

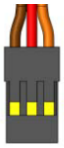
## 2. Performance




## 3. PWM Command signal

| | |
|---|---|
| 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° |

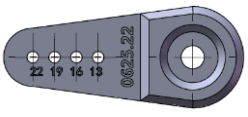
## 4. Electrical Connection

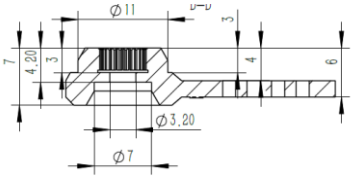


321

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

## 5. Servo Arm_P0625.22






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