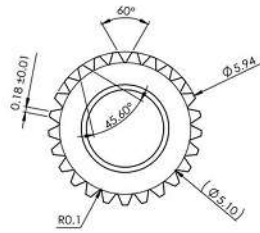
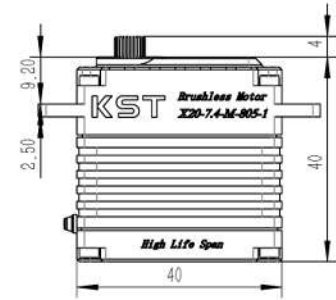
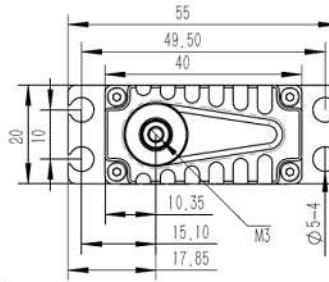


### X20-7.4-M-805-1 Technical Specification



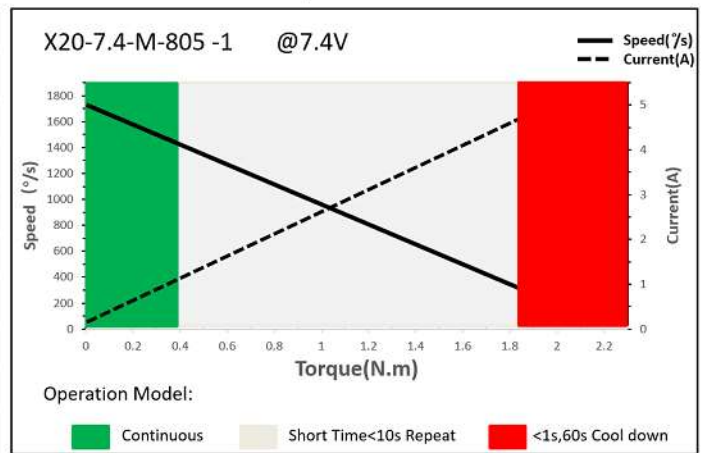
25T 6mm Output Shaft Spline



#### 1. Operating Data

|                   |                      |
|-------------------|----------------------|
|                   | X20-7.4-M-805-1      |
| Rated Voltage     | DC7.4V               |
| Voltage Range     | DC6.0V-8.4V          |
| Stalling Torque   | 0.9N.m@6.0V          |
|                   | 1.1N.m@7.4V          |
|                   | 1.2N.m@8.4V          |
| Speed             | 0.040sec/60°@6.0V    |
|                   | 0.035sec/60°@7.4V    |
|                   | 0.030sec/60°@8.4V    |
| Working Frequency | 760us/560Hz          |
| Temperature Range | -10°C.....+65°C      |
| Case Material     | Aluminum Alloy       |
| Motor Type        | Brushless DC Motor   |
| Gear Set Material | Hardened Steel       |
| Position Sensor   | Contactless          |
| Case Dimensions   | 40mm*20mm*40mm±0.2mm |
| Weight            | 75g±10%              |
| Ball Bearing      | 6 BB                 |

#### 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     | 450us-1050us  |
| Working Frequency | 760us/560Hz   |

#### 4. Electrical Connection

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