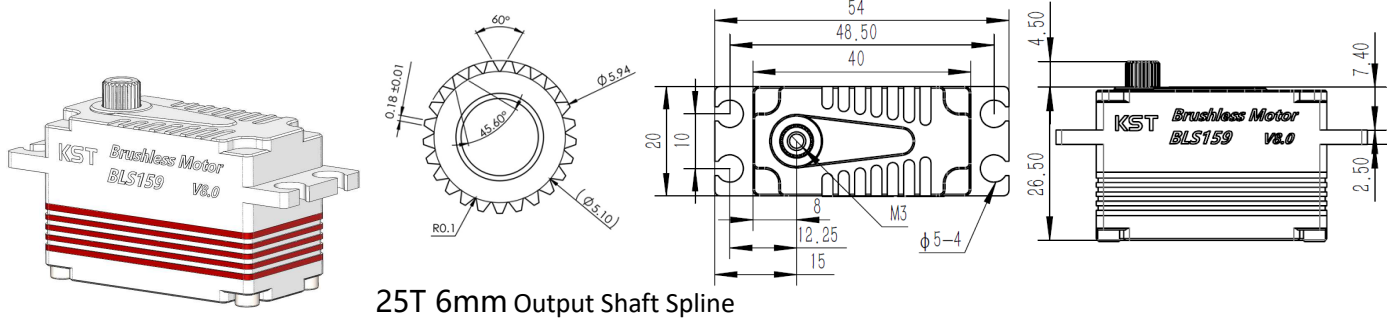


### BLS159 V8.0 Technical Specification

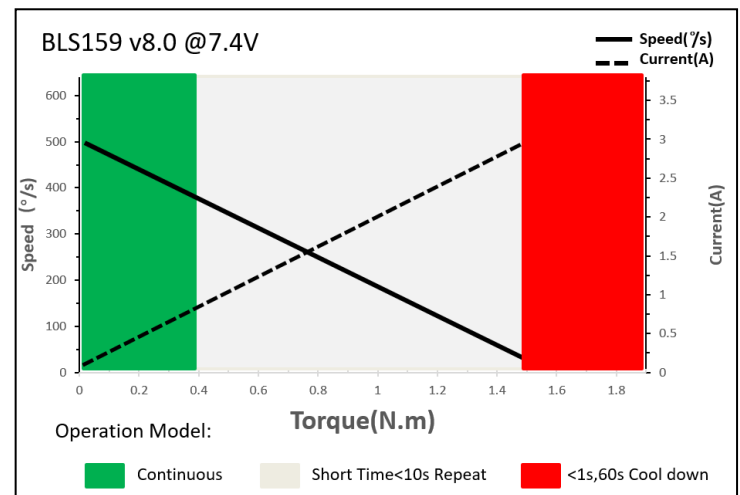


25T 6mm Output Shaft Spline

### 1. Operating Data

|                      | BLS159 V8.0            |
|----------------------|------------------------|
| Rated Voltage        | DC7.4V                 |
| Voltage Range        | DC6.0V-8.4V            |
| Stalling Torque      | 1.5N.m@7.4V            |
| Rated Torque         | 0.4N.m@7.4V            |
| Stalling Current     | 3.85A                  |
| Rated Current        | 0.65A                  |
| No-load Speed        | 0.11sec/60°@7.4V       |
| Rated Speed          | 0.15sec/60°@7.4V       |
| Working Frequency    | 1520us/333Hz           |
| Default Travel Angle | ±50°=100° Total        |
| Temperature Range    | -20°C .....+65°C       |
| Case Material        | Aluminum Alloy         |
| Motor Type           | Brushless DC Motor     |
| Gear Set Material    | Hardened Steel         |
| Position Sensor      | Potentiometer          |
| Case Dimensions      | 40mm*20mm*26.5mm±0.2mm |
| Weight               | 55g±10%                |

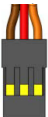
### 2. Performance



### 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

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