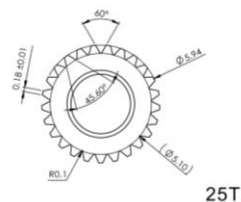
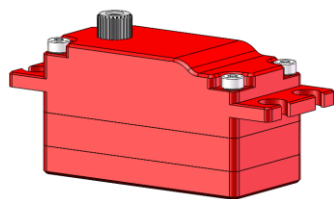
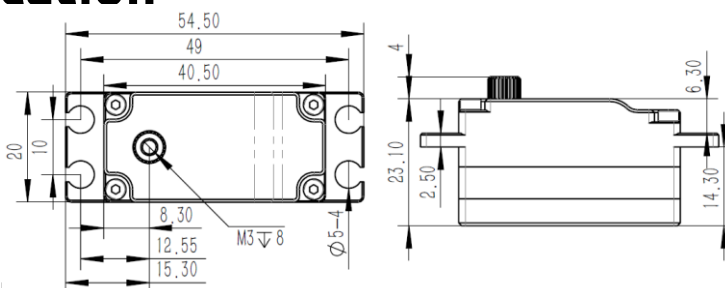


# HV3512 Technical Specification



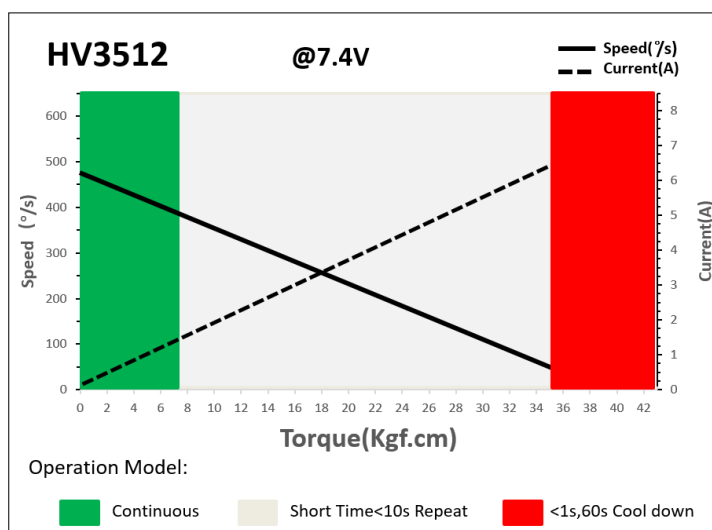
25T 6mm Output Shaft Spli



## 1. Operating Data

|                      |                           |
|----------------------|---------------------------|
| Rated Voltage        | DC7.4V                    |
| Voltage Range        | DC6.0V-8.4V               |
| Torque               | 30Kgf.cm@6.0V             |
|                      | 35Kgf.cm@7.4V             |
|                      | 40Kgf.cm@8.4V             |
| Speed                | 0.14sec/60°@6.0V          |
|                      | 0.12sec/60°@7.4V          |
|                      | 0.11sec/60°@8.4V          |
| Start Current        | 4.0A@6.0V                 |
|                      | 4.8A@7.4V                 |
|                      | 5.8A@8.4V                 |
| Working Frequency    | 1520us/333Hz              |
| Default Travel Angle | ±100° =200° Total         |
| Temperature Range    | -20 .....+65              |
| Soft Start           | Yes                       |
| Programable          | Yes                       |
| Case Material        | Aluminum Alloy            |
| Motor Type           | 4 pole Brushless DC Motor |
| Gear Set Material    | Hardened Steel            |
| Position Sensor      | Contactless               |
| Ball Bearing         | 2BB                       |
| Waterproof           | IP65                      |
| Case Dimensions      | 40.5mm*20mm*23.1mm±0.2    |
| Weight               | 50g±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                              | 500us-2500us                                        |
| Pulse Lengths for Position -100°/ 0°/+100° | 500us/1500us/2500us                                 |

## 4. Electrical Connection

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