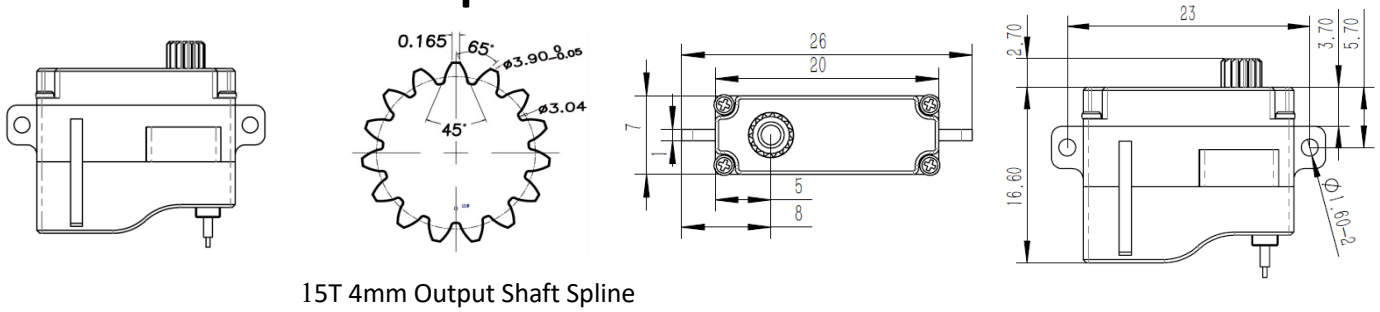


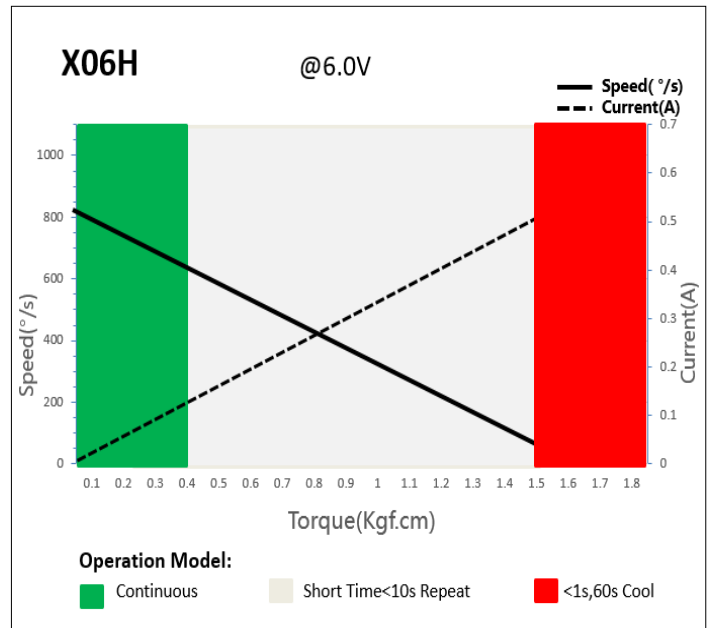
X06H V6.0 Technical Specification



1. Operating Data

| | |
|----------------------|-------------------|
| Rated Voltage | DC6.0V |
| Voltage Range | DC3.8V-8.4V |
| Stalling Torque | 0.80Kgf.cm@3.8V |
| | 1.50 Kgf.cm@6.0V |
| | 1.80 Kgf.cm@8.4V |
| No-load Speed | 0.12sec/60°@3.8V |
| | 0.08sec/60°@6.0V |
| | 0.07sec/60°@8.4V |
| Stalling Current | 0.58A@6.0V |
| Rated Torque | 0.4kgf.cm@6.0V |
| Rated Current | 0.22A@6.0V |
| Rated Speed | 0.20sec/60°@6.0V |
| Working Frequency | 1520us/20KHz |
| Default Travel Angle | ±60° = 120° Total |
| Temperature Range | -10°C+65°C |
| Soft Start | Yes |
| Programmable | Yes |
| Case Material | Aluminum Alloy |
| Motor Type | Coreless DC Motor |
| Gear Set Material | Hardened Steel |
| Position Sensor | Potentiometer |
| Ball Bearing | 1BB |
| Case Dimensions | 20*7*16.6mm±0.2mm |
| Weight | 6g±10% |

2. Performance



3. Command signal

PWM Command Interface

| | |
|----------------------------|---|
| Signal Voltage | HIGH: min.3.3V, max.5.0V Low: min.0.0V, max.1.5V |
| Pulse Lengths | 900us-2100us |
| Pulse Lengths for Position | 1000us/1500us/2000us -60°/ 0°/+60° |

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 |