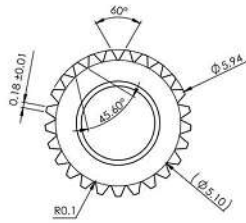
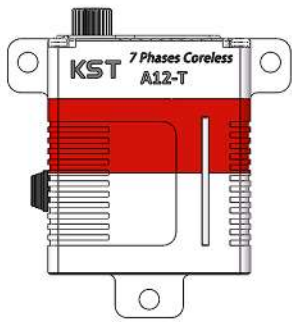
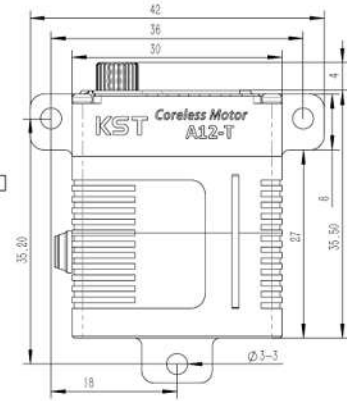
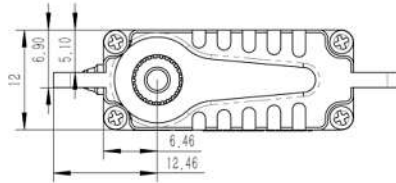


A12-T V8.0 Technical Specification



25T-6mm Output Shaft Spline

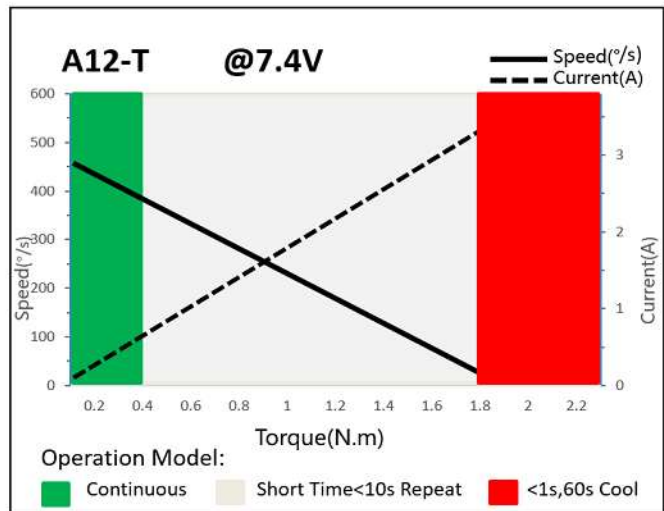


1. Operating Data

| A12-T | |
|----------------------|------------------------------|
| Rated Voltage | DC7.4V |
| Voltage Range | DC6.0V-8.4V |
| Stalling Torque | 1.6N.m@6.0V |
| | 1.8N.m@7.4V |
| | 2.0N.m@8.4V |
| Speed | 0.15sec/60°@6.0V |
| | 0.13sec/60°@7.4V |
| | 0.12sec/60°@8.4V |
| Working Frequency | 1520us/333Hz |
| Default Travel Angle | ±60° = 120° Total |
| Temperature Range | -10°C +60°C |
| Soft Start | Yes |
| Programmable | Yes |
| Case Material | Aluminum Alloy |
| Motor Type | 7 Phases Coreless DC Motor |
| Gear Set Material | Hardened Steel |
| Position Sensor | Contactless(Magnetic sensor) |
| Ball Bearing | 2BB |
| Case Dimensions | 30mm*12mm*35.5mm±0.2m |
| Weight | 32g±10% |

30mm*12mm*35.5mm

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 -50°/ 0°/+50° | 1000us/1500us/2000us |

4. Electrical Connection

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