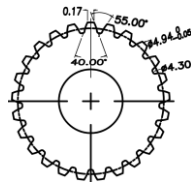
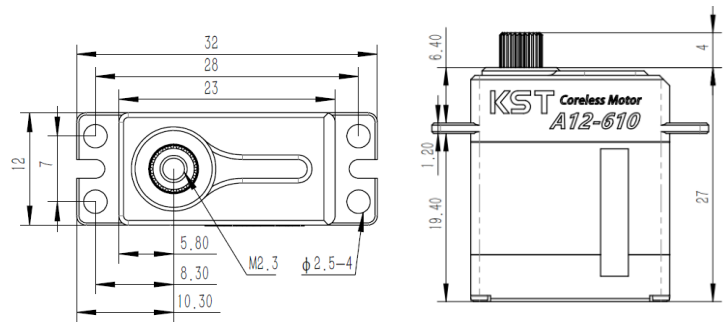


A12-610 Technical Specification



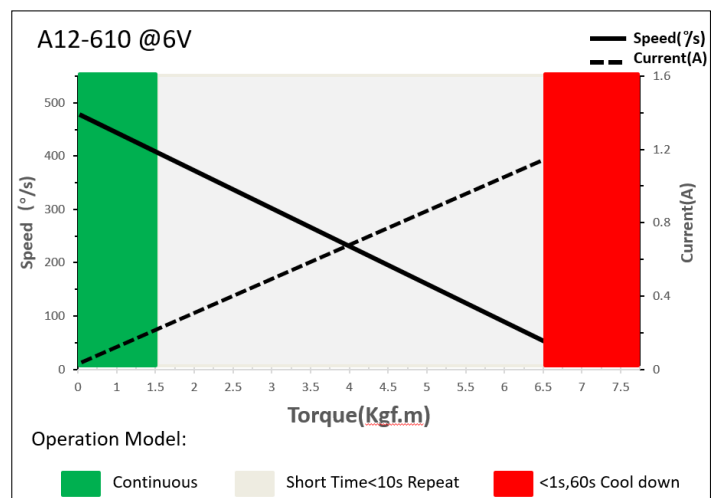
25T5mm Output Shaft Spline



1. Operating Data

| | |
|----------------------|-------------------|
| Rated Voltage | DC7.4V |
| Voltage Range | DC4.80V-8.40V |
| Torque | 5.50Kgf.cm@4.80V |
| | 6.50Kgf.cm@6.00V |
| | 8.00Kgf.cm@7.40V |
| | 9.00Kgf.cm@8.40V |
| Speed | 0.13sec/60°@4.8V |
| | 0.12sec/60°@6.0V |
| | 0.11sec/60°@7.4V |
| | 0.10sec/60°@8.4V |
| Working Frequency | 1520us/333Hz |
| Default Travel Angle | ±50° = 100° Total |
| Temperature Range | -10℃+65℃ |
| Soft Start | Programmable |
| Programmable | Yes |
| Case Material | Aluminum Alloy |
| Motor Type | Coreless DC Motor |
| Gear Set Material | Hardened Steel |
| Position Sensor | Potentiometer |
| Case Dimensions | 23*12*27mm±0.2mm |
| Weight | 20g±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 | 800us-2200us |
| Pulse Lengths for Position | 1000us/1500us/2000us -50° 0°/+50° |

4. Electrical Connection

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

5. Item Number System

| | |
|-------------|-----------------|
| A | 12 - 610 |
| Servo Class | Servo Type |
| 12mm Class | 610 |