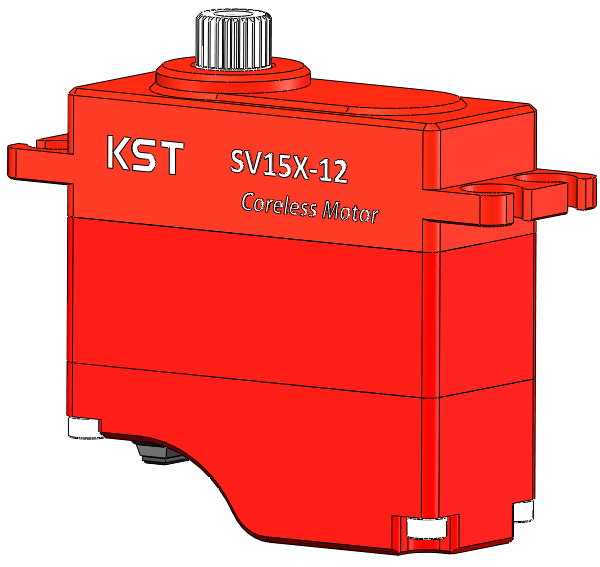
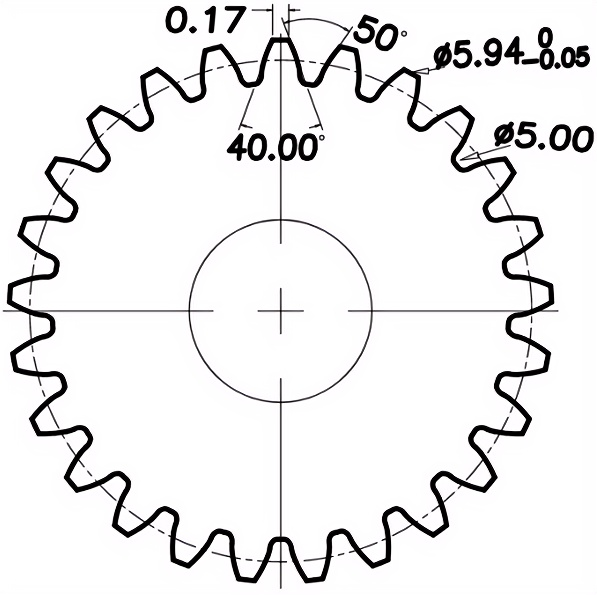
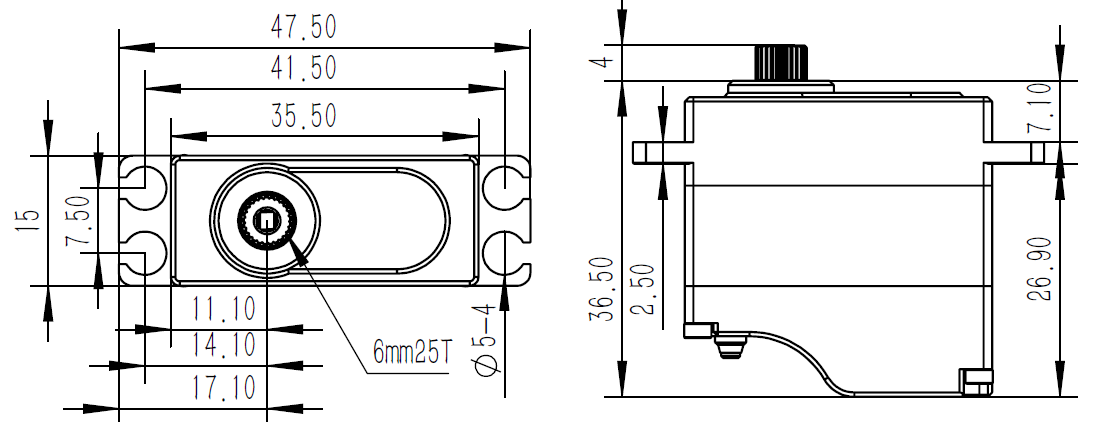
**SV15X-12 Technical Specification**

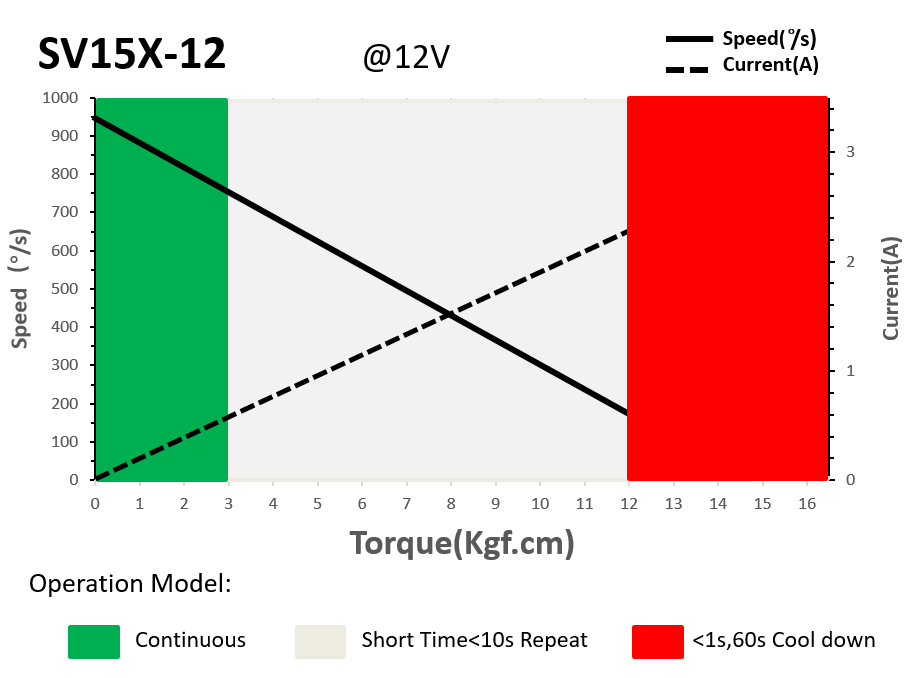


**25T- 6mm Output Shaft Spline**

**1. Operating Data 2. Performance**

**4. Electrical Connection**

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



**3. Command signal**

**PWM Command Interface**

|  |  |
| --- | --- |
| Signal Voltage | HIGH: min.3.3V, max.5.0V  Low: min.0.0V, max.1.5V |
| Pulse Lengths | 450us-1050us |
| Working Frequency | 760us/560Hz |

|  |  |
| --- | --- |
| Rated Voltage | DC12.0V |
| Voltage Range | DC8.40V-13.0V |
| Torque | 9.0Kgf.cm@8.40V |
| 12.0Kgf.cm@12.0V |
| 13.0Kgf.cm@13.0V |
| Speed | 0.08sec/60°@8.40V |
| 0.06sec/60°@12.0V |
| 0.05sec/60°@13.0V |
| Start Current | 1.45A@8.40V |
| 2.05A@12.0V |
| 2.35A@13.0V |
| Working Frequency | 760us/560Hz |
| 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 |
| Ball Bearing | 2BB |
| Case Dimensions | 35.5\*15\*36.5mm±0.2mm |
| Weight | 40g±10% |