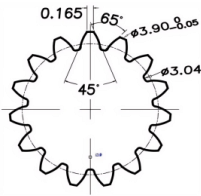
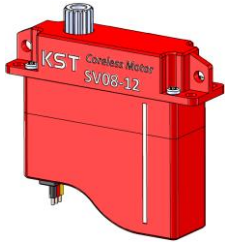
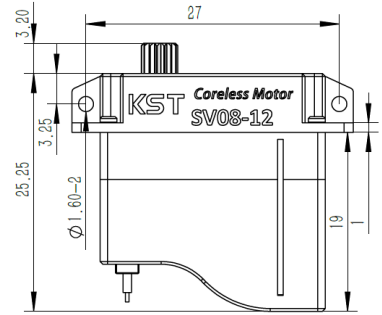
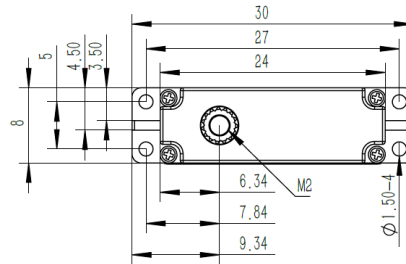


### SV08-12 Technical Specification



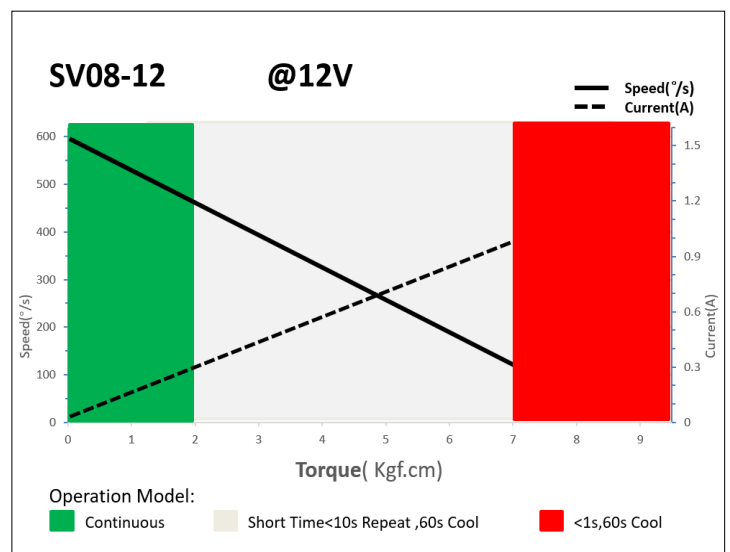
15T- 4mm Output Shaft Spline



## 1. Operating Data

Rated Voltage	DC12.0V
Voltage Range	DC8.40V-13.0V
Torque	5.00Kgf.cm@8.40V
	7.00Kgf.cm@12.0V
	8.00Kgf.cm@13.0V
Speed	0.15sec/60°@8.40V
	0.10sec/60°@12.0V
	0.09sec/60°@13.0V
Start Current	1.18A@12.0V
Rated Torque	2.0kgf.cm@12.0V
Rated Current	0.35A@12.0V
Rated Speed	0.13sec/60°@12.0V
Working Frequency	1520us/333Hz
Default Travel Angle	±60° =120° Total
Temperature Range	-10°C.....+65°C
Soft Start	Programmable
Programmable	Yes
Case Material	Aluminum Alloy
Motor Type	Coreless DC Motor
Gear Set Material	Hardened Gear
Position Sensor	Potentiometer
Ball Bearing	2BB
Case Dimensions	23.5*8*25.25mm ±0.2mm
Weight	11g ±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

Pin Assignment			
3 2 1	1	Orange	Signal
	2	Red	DC+
	3	Brown	DC-