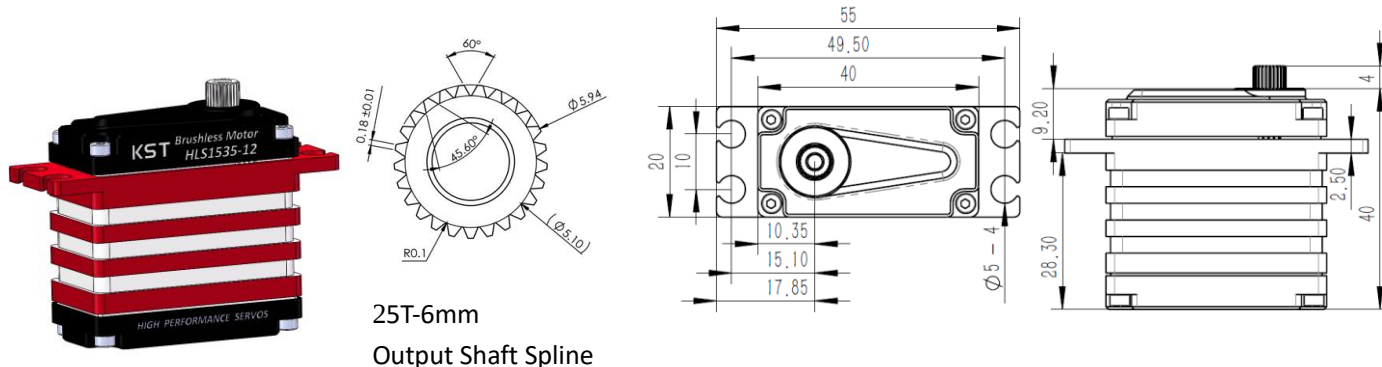


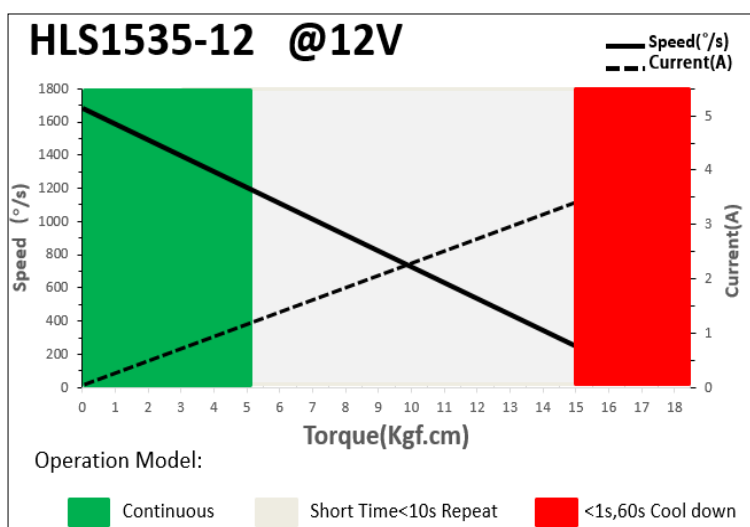
HLS1535-12 V3.0 Technical Specification



1. Operating Data

HLS1535-12	
Rated Voltage	DC12V
Voltage Range	DC8.0V-13.0V
Stalling Torque	12Kgf.cm@8.4V
	15Kgf.cm@12V
	16Kgf.cm@13V
Speed	0.050sec/60°@8.4V
	0.035sec/60°@12V
	0.030sec/60°@13V
Working Frequency	760us/560Hz
Temperature Range	-20°C.....+65°C
Case Material	Aluminum Alloy
Motor Type	Brushless DC Motor
Gear Set Material	Hardened Steel
Position Sensor	Potentiometer
Case Dimensions	40mm*20mm*40mm±0.2mm
Weight	72g±10%
Ball Bearing	6 BB

2. Performance

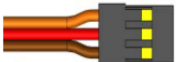


3. Command signal

3.1. PWM Command Interface

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

4. Electrical Connection

 3 2 1	Pin Assignment			
	1	Yellow	SIG	Command Signal
	2	Red	DC+	Supply Voltage
	3	Brown	DC-(GND)	Supply Ground, Signal Ground