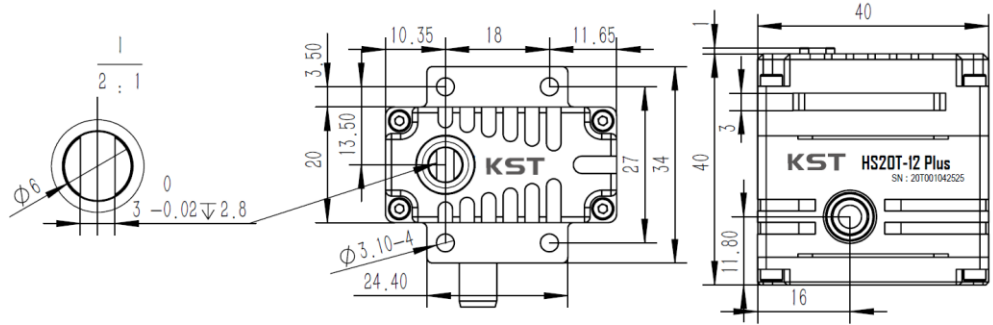


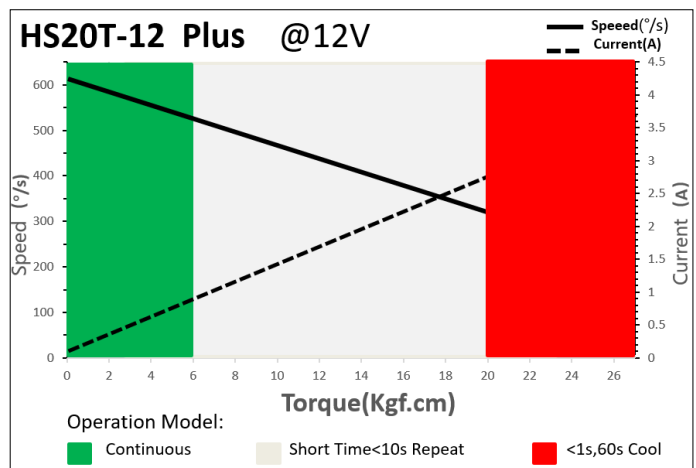
### HS20T-12 Plus Technical Specification



#### 1. Servo Data.

Rated Voltage	DC12V
Voltage Range	DC9V-13V
Stalling Torque	20Kgf.cm@12V
Rated Torque	6Kgf.cm@12V
Stalling Current	3.00A
Rated Current	0.80A
No-load Speed	620°/s @12V@25°C
Rated Speed	450°/s @12V@25°C
Default Travel Angle	±45° =90° total travel
Temperature Range	-30°C.....+65°C
Case Material	Aluminum Alloy
Motor Type	Brushless DC Motor
Gear Set Material	Hardened Steel
Position Sensor	Contactless
Ball Bearing	6BB
Case Dimensions	40*20*40mm±0.2mm
Weight	80g±10%

#### 2. Performance.



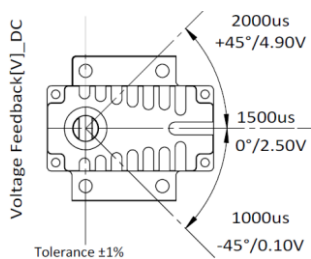
#### 3. Command Signal

##### PWM Command Interface

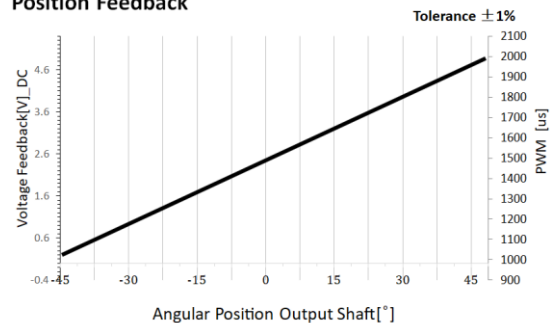
Signal Voltage	HIGH:min.3.3V,max.5.0V Low:min.0.0V,max.1.5V
Pulse Lengths	1000us-2000us
Pulse Lengths for Position	1000us/1500us/2000us -45°/ 0°/+45°

#### 4. Position Feedback Signal

The Position Feedback signal is an analog output signal with a voltage value, which is directly related to the output shaft's angular position. The default factory setting is 1000us-2000us corresponding to 0.10V-4.90V, tolerance ±1%.



##### Position Feedback



#### 5. Electrical Connection

	1	Red	DC+ Supply Voltage	4	Yellow	Position Feedback +
	2	Black	DC- Supply Ground	5	Blue	Position Feedback-
	3	White	PWM Command Signal			