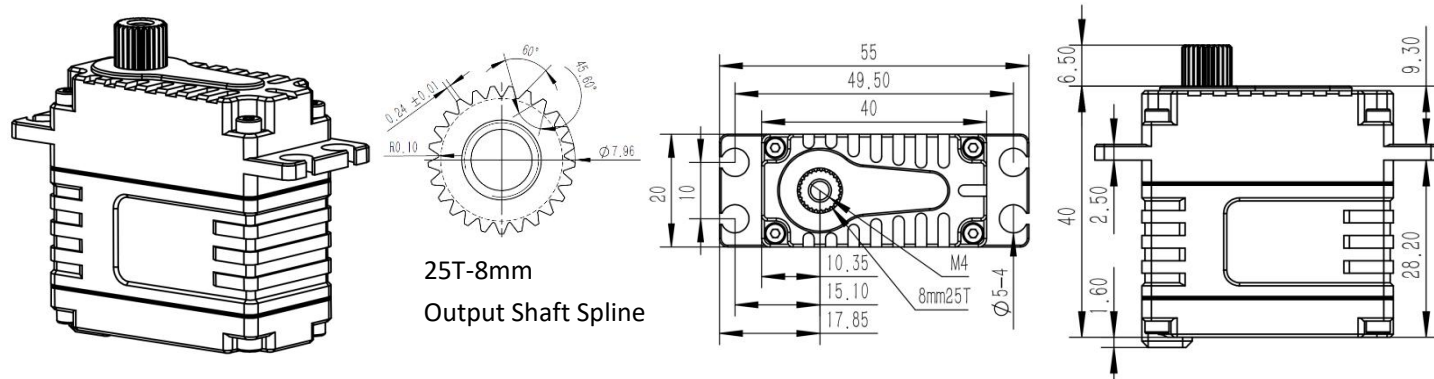


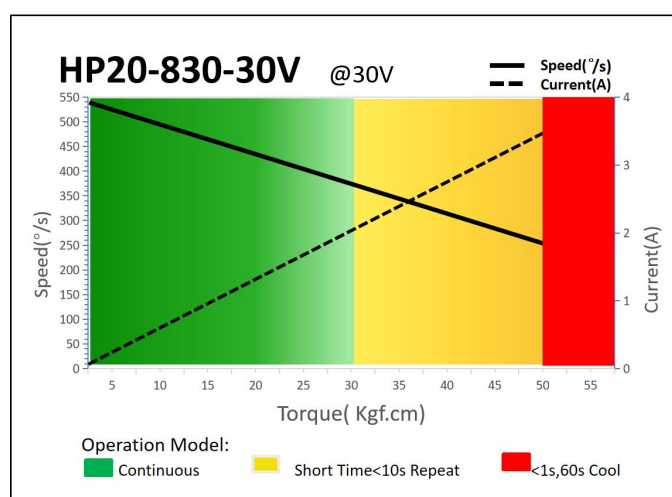
Technical Specification



1. Operating Data

Rated Voltage	DC30V
Voltage Range	DC20V-32V
No-load current	50mA
Stalling Torque	50Kgf.cm
No load speed	540°/sec
Rated Speed	380°/sec
Stalling Current	3.5A
Rated Torque	30Kgf.cm
Rated Current	2.1A
Working Frequency	1520us/333Hz
Pulse Width	500us-2500us
Temperature Range	-30°C.....+65°C
Default Travel Angle	±100°=200° Total angle
Dead Band	2us
Gear Backlash	≤0.5°
Command Signal	PWM or CANOPEN 2.0B
Dimensions	40mm*20mm*40mm(±0.2mm)
Weight	80g±10%
Case Material	Aluminum Alloy
Motor Type	Brushless DC Motor
Gear Set Material	Hardened Steel
Position Sensor:	Contactless
Ball Bearing:	6BB

2. Performance



3. Command Signal

PWM or CANOPEN 2.0B

3.1 .1 PWM Command Interface

Signal Voltage	HIGH: min.3.3V, max.5.0V Low: min.0.0V, max.1.5V
Pulse Width	500us-2500us
Pulse Width for Position	1000us/1500us/2000us -50°/ 0°/+50°

3.1 .2 CAN Bus Command Interface

Baud-Rate	500Kbps
Node number	0 x25 (range 1 ~ 127, 0 is radio)
Communication	CAN Open

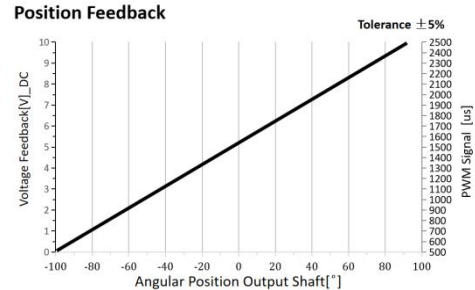
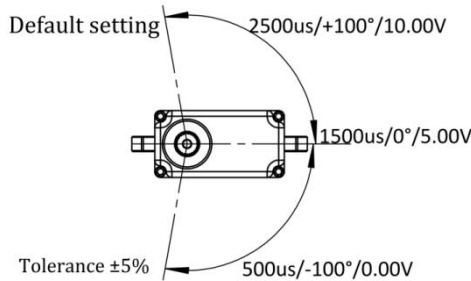
KST MEIZHOU COMPANY LIMITED

HP20-830-30-* Specification

www.kstsz.com

3.2 .1 PWM Position Feedback Signal

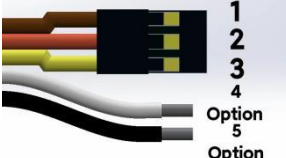
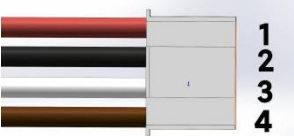
The Position Feedback signal (Pos FB) is an analog output signal with a voltage value which is directly related to the output shaft's angular position. Reference is **FB -**.



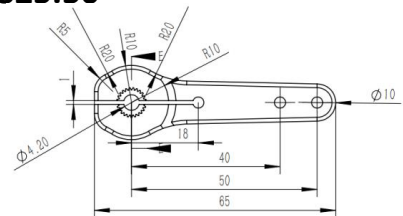
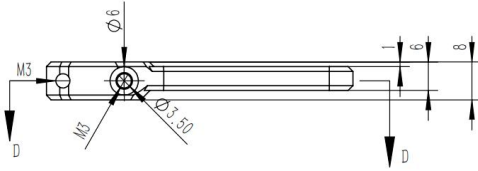
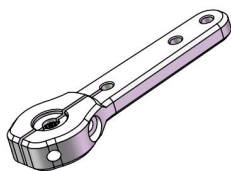
3.2.2 CANBUS Feedback

Integrated in the Bus protocol a Feedback Value, including the Angle position, Temperature, current value. Value read by sending request command. Provide the details of the bus in the document.

4. Electrical Connection

PWM Connection	Pin Assignment			
	1	Yellow	SIG	Command Signal
	2	Red	DC+	Supply Voltage
	3	Brown	DC-	Supply Ground
	4	White	FB +	Feedback Signal (Option)
	5	Black	FB -	Feedback Signal Ground (Option)
CANBUS Connection	Pin Assignment			
	1	Red	DC+	Supply Voltage
	2	Black	DC-	Supply Ground
	3	White	CAN_H	
	4	Brown	CAN_L	

5.Accessories: Aluminum Servo Horn, Item No.: 0825.50



6. Item Number System

