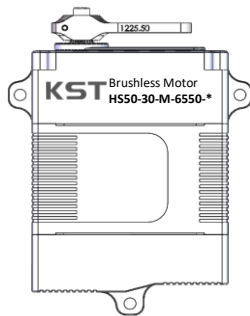
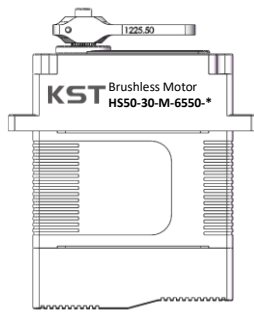


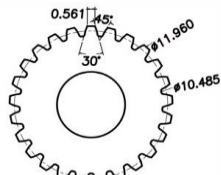
HS50-30-M-6550-x Technical Specification



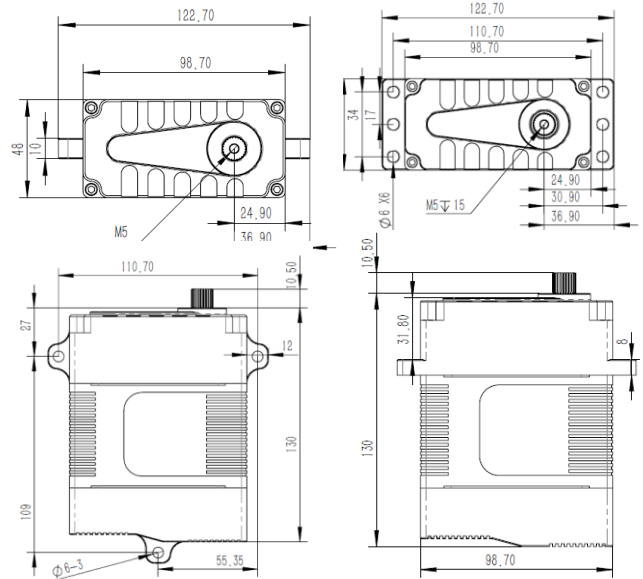
Version A



Version B



25T 12mm Output Shaft Spline



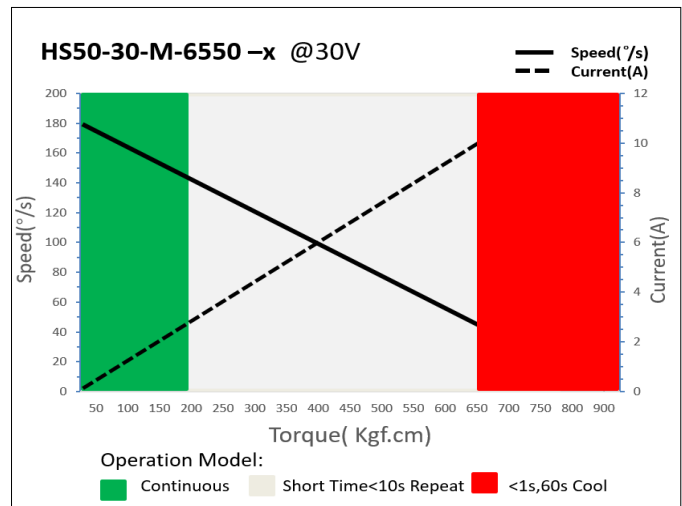
1. Servo Data

Rated Voltage		DC30V
Voltage Range		DC24V-32V
Stalling Torque		650Kgf.cm@30V
Rated Torque		200Kgf.cm@30V
Stalling Current		8.50A
Rated Current		2.30A
No-load Speed		180°/s @25°C/30V
Rated Speed		135°/s @25°C/30V
Default Travel Angle		±100° = 200° total travel
Operating Temperature Range		-30°C.....+65°C
Case Material		Aluminum Alloy 7075
Motor Type		Brushless DC Motor
Gear Set Material		Hardened Steel
Position Sensor		Contactless
Shielded Connecting Cable		J30J-15TJL/1500mm
Ball Bearing		6BB
Version A	Case Dimensions	98.7*48*130mm(±0.2mm)
	Weight	1350g (±10%)
Version B	Case Dimensions	98.7*48*130mm(±0.2mm)
	Weight	1350g (±10%)

3.2 RS485 / RS422 Command Interface

Baud-Rate	115200 ±1.5% bits/s
Protocol (Documentation available)	10 Byte (incl. 1 byte Check Sum)
Number of Data Bits	8
Number of Stop Bits	1
Parity	None

2. Performance



3. Command Signal

3.1 PWM Command Interface

Signal Voltage	HIGH:min.3.3V,max.5.0V Low:min.0.0V,max.1.5V
Pulse Lengths	500us-2500us
Pulse Lengths for Position	500us/1500us/2500us -100°/ 0°/+100°

Command / Response Frame

Byte #	Description	Byte #	Description
1	Frame Head(0xFE)	6	Data
2	Version(0xCA)	7	Data
3	Address	8	Data
4	Command code	9	Check Sum
5	Data	10	(0A)Frame End

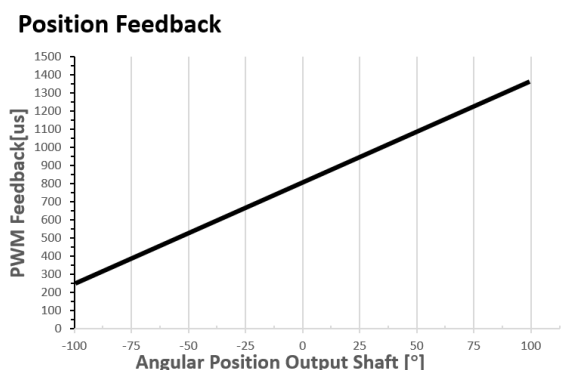
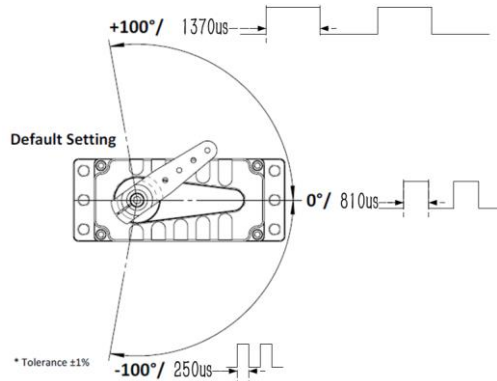
3.3 CAN Bus Command Interface

Baud-Rate	500Kbps	Communication	3.1: CAN Open standard frame 3.2: CAN Extended frame
Node number	0 x25 (range 1 ~ 127, 0 is radio)		

3.4. Feedback Signal

3.4.1 Position Feedback Signal (PWM Versions)

The Position Feedback signal is an output signal with a square wave which is directly related to the output shaft's angular position. Reference is Supply Ground.



3.4.2 Feedback Value (Bus Version)

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.

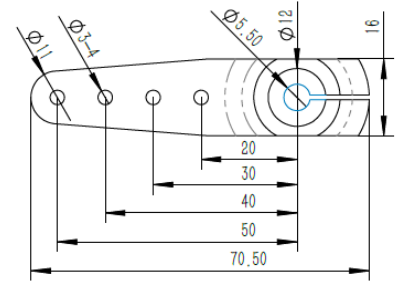
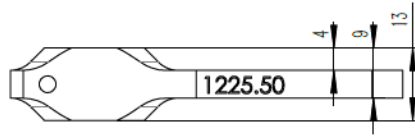
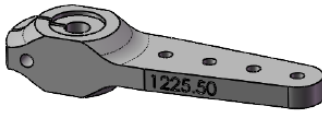
4. Industrial Standard J30J-09P02K Electrical Connector Pin Assignment

	Assignment PWM			Assignment RS485			Assignment CAN			Assignment RS422	
	1	DC + Supply Voltage	1	DC + Supply Voltage	1	DC + Supply Voltage	1	DC + Supply Voltage	1	DC + Supply Voltage	
	2		2		2		2		2		
	3		3		3		3		3		
	4		4		4		4		4		
	5	DC- Supply Ground	5	DC- Supply Ground	5	DC- Supply Ground	5	DC- Supply Ground	5	DC- Supply Ground	
	6		6		6		6		6		
	7		7		7		7		7		
	8		8		8		8		8		
	9	PWM Command Signal	9	NC Do not connect	9	NC Do not connect	9	NC Do not connect	9	NC Do not connect	
	10		10	RS485A	10	CAN High	10	RX+	10	RX+	
	11		11	RS485B	11	CAN Low	11	RX-	11	RX-	
	12		12	Signal GND	12	Signal GND	12	TX+	12	TX+	
	13		13		13		13	TX-	13	TX-	
	14		14		14		14	Signal GND	14	Signal GND	
	15		15		15		15		15		

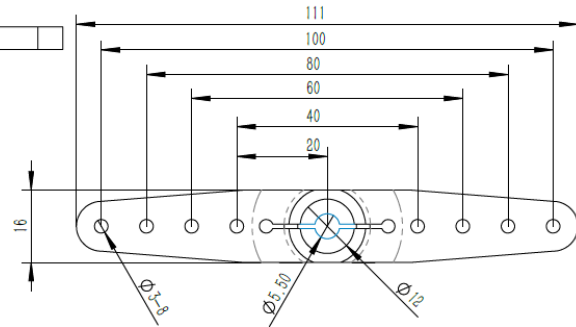
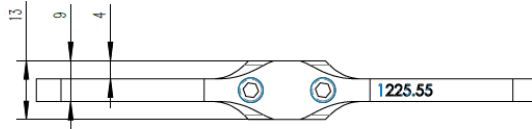
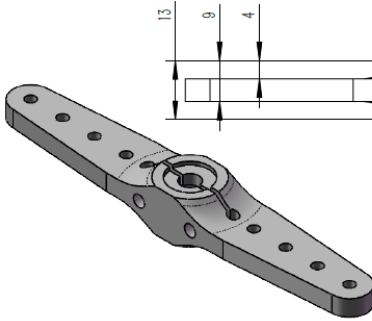
5. Accessories List

Model	Output Shaft Spline	Item	Item No.
HS50-30-M-6550-x	25T 12mm	Aluminum Servo Arm (Single side)	1225.50
		Aluminum Servo Arm (Double side)	1225.55
		Aluminum Servo Disc	1225.16.5

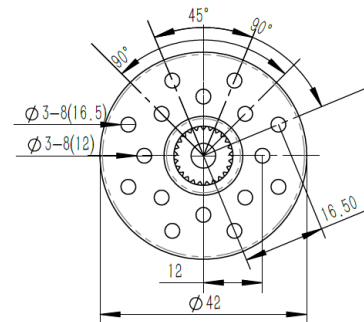
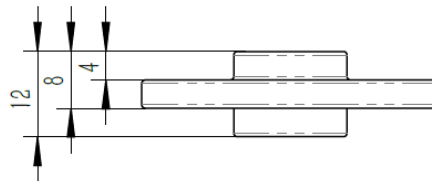
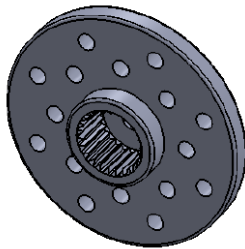
Item No.: 1225.50



Item No.: 1225.55



Item No.: 1225.16.5



6. Item Number System

