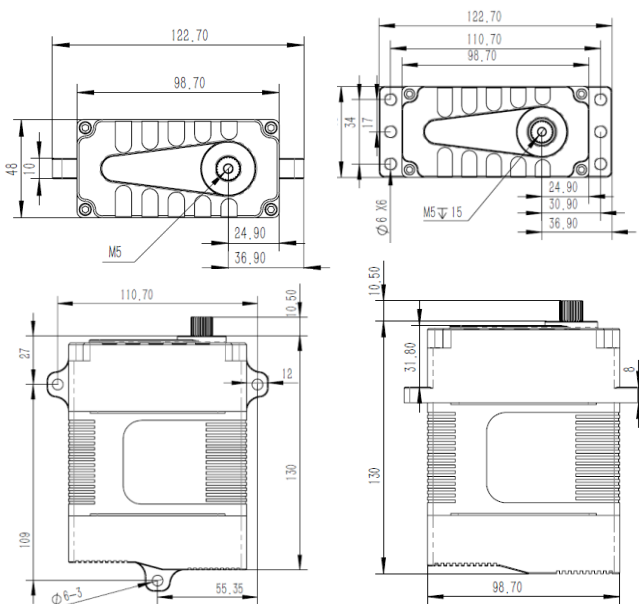
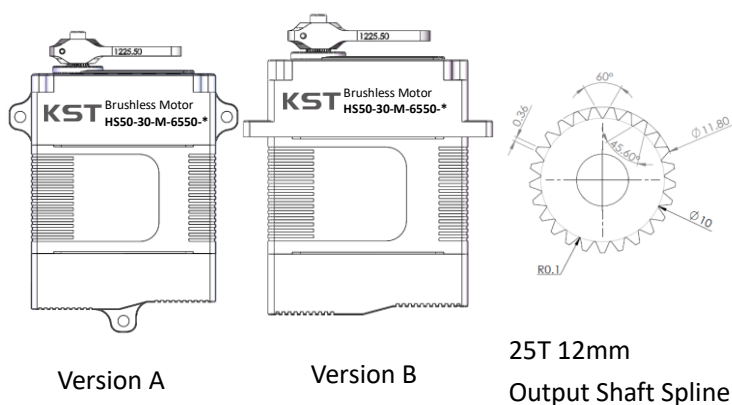


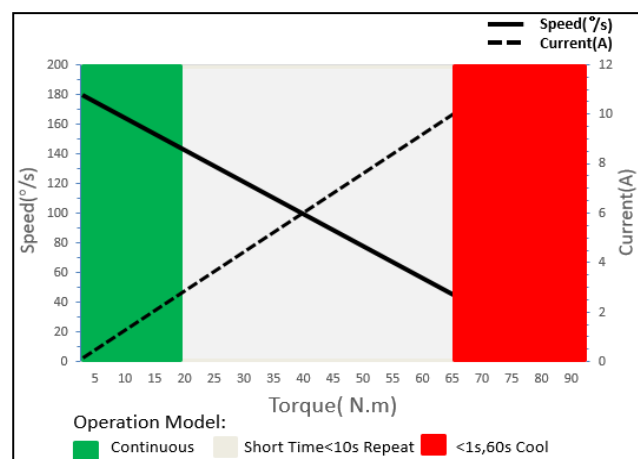
HS50-30-M-6550-* Technical Specification



1. Servo Data

Rated Voltage		DC30V
Voltage Range		DC24V-32V
Stalling Torque		65N.m@30V
Rated Torque		20N.m@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℃.....+65℃
Case Material		Aluminum Alloy 7075
Motor Type		Brushless DC Motor
Gear Set Material		Hardened Steel
Position Sensor		Contactless
Shielded Connecting Cable		J30J-9TJL/1500mm
Ball Bearing		6BB
Version A	Case Dimensions	98.7mm*48mm*130mm(±0.2mm)
	Weight	1350g(±10%)
Version B	Case Dimensions	98.7mm*48mm*130mm(±0.2mm)
	Weight	1350g(±10%)

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 -100°/0°/+100°	500us/1500us/2500us

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

3.2 RS485 / RS422 Command Interface

Baud-Rate	115200 ±1.5% bits/s
Protocol (Documentation available)	10 Byte (incl. 1 byte Check Sum)

3.2.1 RS485 / RS422 Protocol Specifications

Number of Data Bits	8
Number of Stop Bits	1
Parity	None

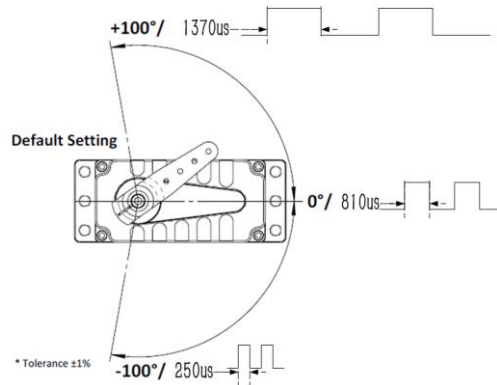
3.3 CAN Bus Command Interface

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)		

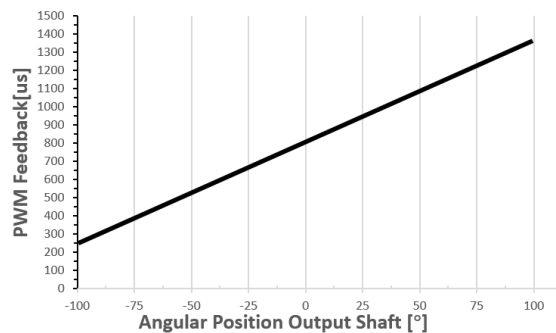
3.4. Feedback Signal

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.



Position Feedback



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.

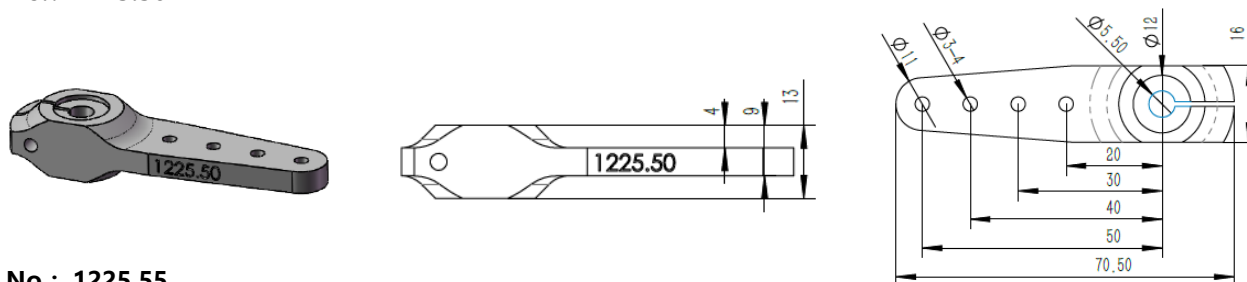
4. Industrial Standard J30J-15ZKP electrical Connector Pin Assignment

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

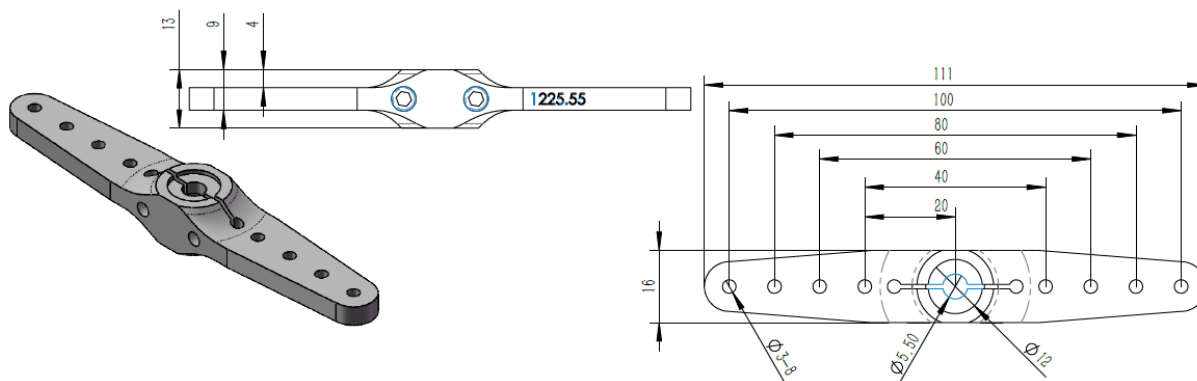
5. Accessories List

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

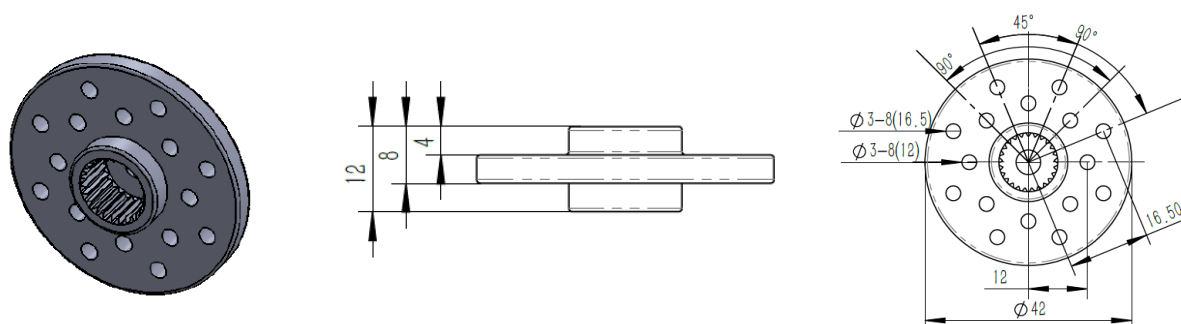
Item No.: 1225.50



Item No.: 1225.55



Item No.: 1225.16.5



6. Item Number System

