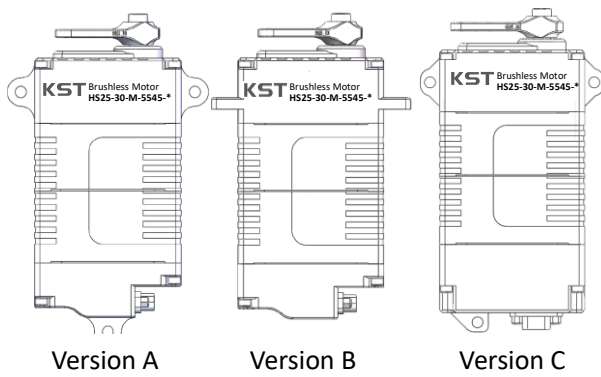
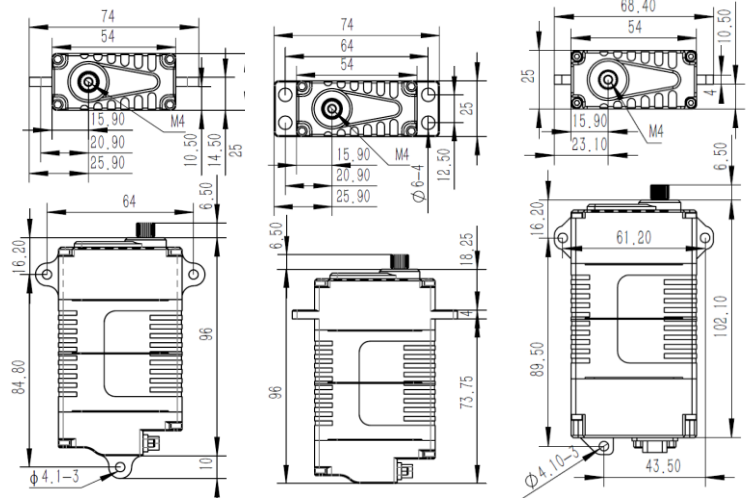
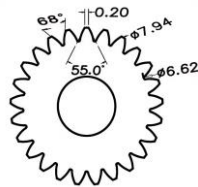


HS25-30-M-5545-x Technical Specification



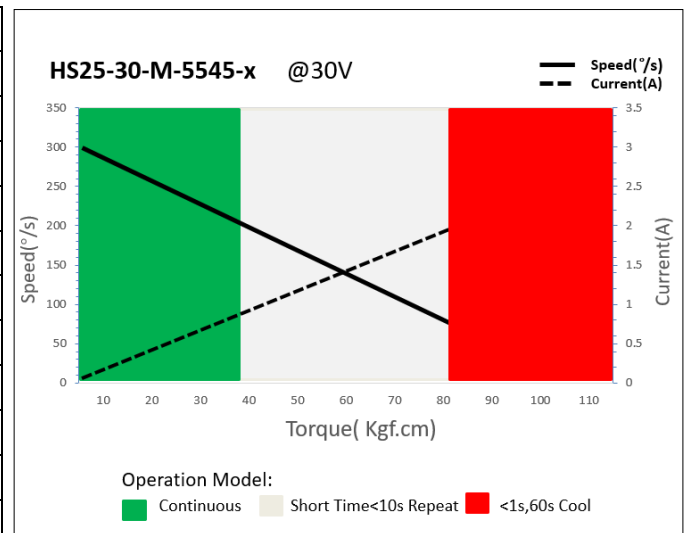
8mm_25T
Output Shaft Spline



1. Servo Data

Rated Voltage		DC30V
Voltage Range		DC24V-32V
Stalling Torque		80Kgf.cm@30V
Rated Torque		38Kgf.cm@30V
Stalling Current		2.00A
Rated Current		0.95A
No-load Speed		300°/s @25°C/30v
Rated Speed		200°/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&B	Case Dimensions	54*25*96mm(±0.2mm)
	Weight	300g (±10%)
Version C	Case Dimensions	54*25*102mm(±0.2mm)
	Weight	300g (±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	500us/1500us/2500us -100° 0°/+100°

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

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

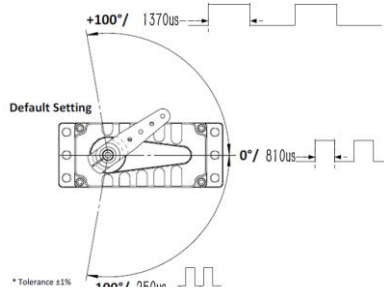
3.3 CAN Bus Command Interface

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)

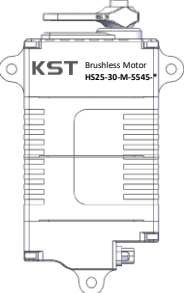
The Position Feedback signal is an output signal with a square wave, which is directly related to the output shaft's angular position. Reference is Supply Ground.



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.

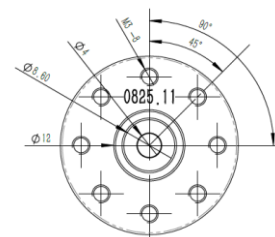
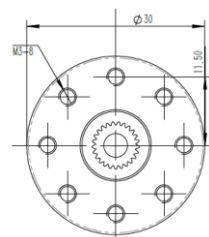
4. Industrial Standard J30J-9ZKP electrical Connector

	Assignment PWM		Assignment RS485		Assignment CAN		Assignment RS422	
	1	DC + Supply Voltage	1	DC + Supply Voltage	1	DC + Supply Voltage	1	DC + Supply Voltage
	2		2		2		2	
	3	NC (Do not connect)	3	NC (Do not connect)	3	Isolated GND	3	NC (Do not connect)
	4	DC- Supply Ground	4	DC- Supply Ground	4	DC- Supply Ground	4	DC- Supply Ground
	5		5		5		5	
	6	PWM Command Signal	6	RS485A	6	CAN_H	6	RX+
	7		7		7		7	RX-
	8	Feedback Signal	8	RS485B	8	CAN_L	8	TX+
	9	Signal GND	9		9		9	TX-

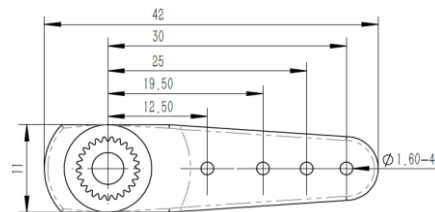
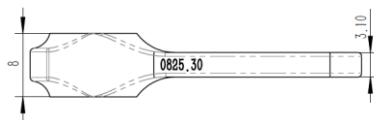
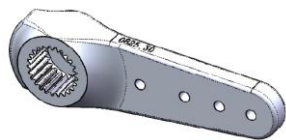
5. Accessories List

Model	Output Shaft Spline	Item	Item No.
HS25-30-M-5545-X	8mm_25T	Aluminum Servo Disc	0825.11
		Aluminum Servo Arm (Single side)	0825.30
		Aluminum Servo Arm (Single side)	0825.32
		Aluminum Servo Arm (Single side)	0825.38
		Aluminum Servo Arm (Single side)	0825.50

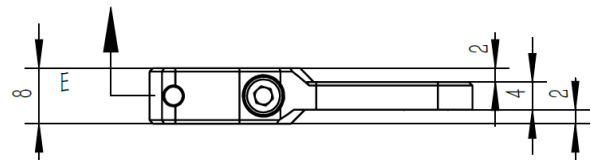
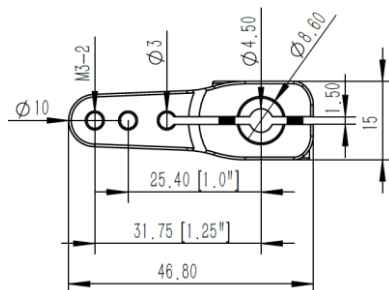
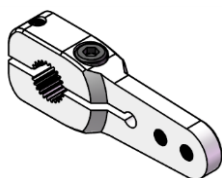
Item No.: 0825.11



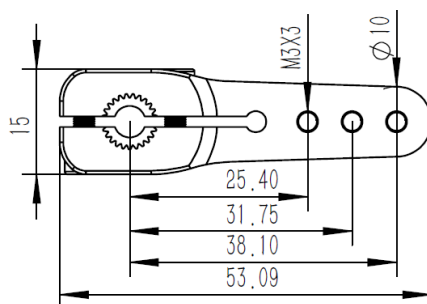
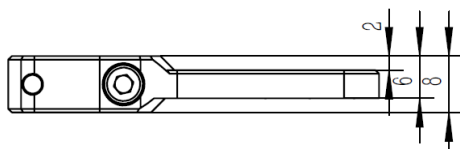
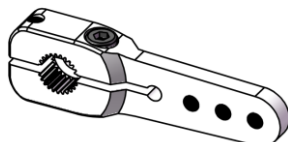
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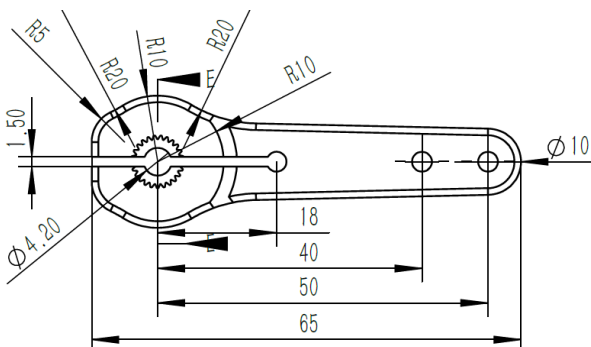
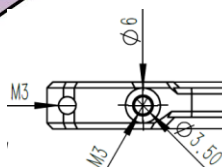
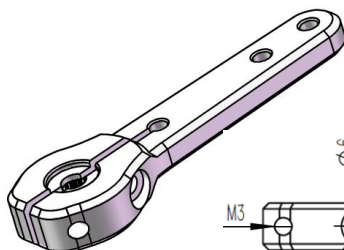
Item No.: 0825.32



Item No.: 0825.38



Item No.: 0825.50



6. Item Number System

HS	25	-	30	-	M	-	5545	-	x
Servo Class									Interface
25mm Class									
Supply Voltage							Servo Type		
30: DC30V							5545		
					Sensor				
					M: Contactless				

- 1: PWM
- 2: RS485 Bus
- 3: CAN Bus
 - 3.1: CAN Open Standard Frame
 - 3.2: CAN Open Extended Frame
 - 3.5: Isolated CAN Bus
 - 3.51: CAN Open Standard Frame
 - 3.52: CAN Open Extended Frame
- 4: RS422 Bus