Shenzhen XQPOWER Technology Co., LTD

XQ-POWER

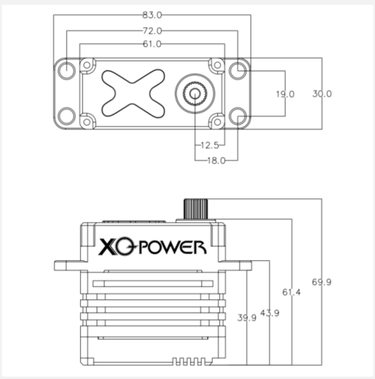
Product Inspection Specification

DOCUMENT NO	N/D.20230428.9.1
VER	X9_9100.01
Page.	P.1
Prepare Date	20230405

GSN	XQ-9S	Product Name	XQ-POWER 12V110kg-cm Brushless Servo	Model	XQ-RS9100MB	Material	CNC all-metal case

Process flow | CNC / industry testing torque

SIZE OF THE DRAWINGS



The Drawings

Photos1



Photos2



Control Specifications

NO.	Standard Test Environment	
1-1	Temperature range	25℃±5℃
1-2	Humidity range	65%±10%
NO.	**Apply Environmental Condition**	
2-1	Storage Temperature Range	-30℃～70℃
2-2	Operating Temperature Range	-20℃～60℃
NO.	**Mechanical Specification**	
3-1	Servo Dimensions	61*30*61.4 mm
3-2	Servo Weight	190g
3-3	Servo Gear	Steel Gear
3-4	Angle of limit	No Limit
3-5	Servo Bearing	10 Ball bearings
3-6	Output force shaft	25T-φ9.95mm
3-7	Servo arm	Metal
3-8	Case Material	Aluminium CNC
3-9	Servo line	J30J-9TJL purchase separately
3-10	Built-in motor	Brushless motor
3-11	Splash water resistance	Yes
	Electrical Specification	
NO.	**Test Operating Voltage Range**	
4-1	**Work Voltage**	**8.4 V**
4-2	**No load speed**	0.25 sec/60°
4-3	**Runnig current (no load)**	200 mA
4-4	**Peak stall torque**	115 kg.cm
4-5		
4-6	**Stall current**	6.5 A
	Work Voltage	**12 V**
4-6	**No load speed**	0.15 sec/60°
4-7	**Runnig current (no load)**	300 mA
4-8	**Peak stall torque**	110 kg.cm
4-9		
4-10	**Stall current**	8 A
	Work Voltage	**16.8 V**
4-11	**No load speed**	0.12 sec/60°
4-12	**Runnig current (no load)**	400 mA
4-13	**Peak stall torque**	130 kg.cm
4-14		
4-15	**Stall current**	10 A

AQL

Make table	CHECK	APPROVE
MR.ZHONG	MR.LIU	Manager.ZHOU

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XQ-POWER

Product Inspection Specification

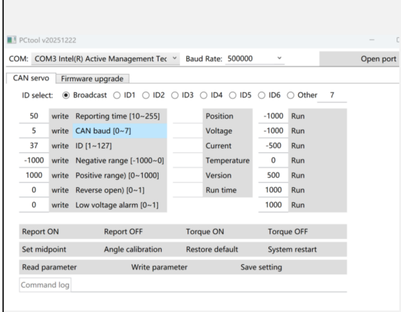
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Control Specification

Test display diagram

Photos1



Accessories

Photos1



Reference opinions of all departments: Agree

EMPHASIS

NO.	Item	Specification
5-1	Command signal	RS485 MODBUS
5-2	Amplifier type	Digital Controller
5-3	Pulse width range	500～2500 μsec customizable
5-4	Neutral position	1500 μsec customizable
5-5	Running degree	360° (when1000～2000 μsec) Customization
5-6	Dead band width	3 μsec
5-7	Rotating direction	CCW (when 1000～2000μsec) customizable

Appearance inspection

NO.	QC details
5-7	Material qualified
5-8	Gear structure qualified
5-9	Function qualified
5-10	Use data qualified
5-11	Pass the test

AQL

NO.	Other
6-1	
6-2	
6-3	
6-4	

Other Accessories

7-1	Plastic arm bag
7-2	Screw
7-3	Metal arm (additional purchase)



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