Shenzhen XQPOWER Technology Co., LTD

XQ-POWER

Product Inspection Specification

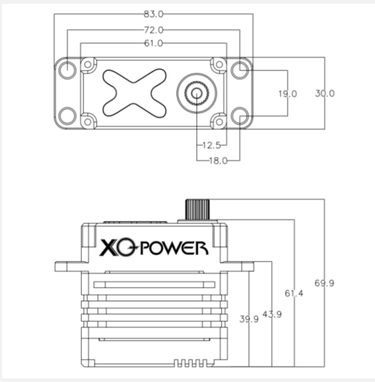
DOCUMENT NO	N/D.20230428.9.1
VER	X9_9100.01
Page.	P.1
Prepare Date	20230405

GSN	XQ-9S	Product Name	XQ-POWER 12V110kg-cm Brushless Servo	Model	XQ-S9100DC	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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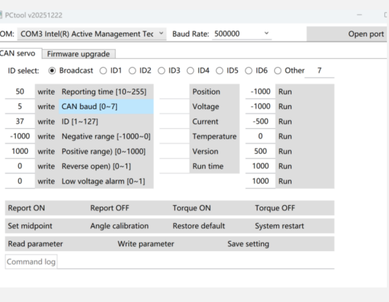
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Control Specification

Test display diagram

Photos1



Accessories

Photos1



Reference opinions of all departments: Agree

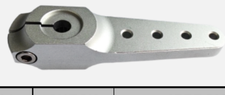
EMPHASIS

NO.	Item	Specification
5-1	Command signal	CAN
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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