

Shenzhen XQPOWER Technology Co., LTD						DOCUMENT NO		N/D.2024.11.23				
						VER		X81_8140.15				
						Page.		P.1				
						Prepare Date		20241126				
GSN		XQ-8H	Product Name	XQ-POWER 12V40kg-cm Hight Voltage Brushless Tail Servo		Model	XQ-BLS8140TTL	Material	CNC all-metal case			
Process flow						CNC / industry testing torque						
SIZE OF THE DRAWINGS						Control Specifications					AQL	
						NO.	Standard Test Environment					
						1-1	Temperature range	25°C±5°C				
						1-2	Humidity range	65%±10%				
						NO.	Apply Environmental Condition					
						2-1	Storage Temperature Range	-20°C ~ 70°C				
						2-2	Operating Temperature Range	-15°C ~ 65°C				
						NO.	Mechanical Specification					
						3-1	Servo Dimensions	20*40*38 mm				
						3-2	Servo Weight	78g				
						3-3	Servo Gear	Stainless Steel				
						3-4	Angle of limit	210°				
						3-5	Servo Bearing	2 Ball bearings				
						3-6	Output force shaft	25T-φ5.96mm				
						3-7	Servo arm	Plastic, POM				
						3-8	Case Material	Aluminium CNC				
						3-9	Servo line	300mm 22AWG				
						3-10	Built-in motor	Brushless motor				
						3-11	Splash water resistance	Yes				
						Electrical Specification						
						NO.	Test Operating Voltage Range					
4-1	Work Voltage	7.4 V										
4-2	No load speed	0.11 sec/60°										
4-3	Runnig current (no load)	320 mA										
4-4	Peak stall torque	25 kg.cm										
4-5	Stall current	2.8 A										
	Work Voltage	8.4 V										
4-6	No load speed	0.094 sec/60°										
4-7	Runnig current (no load)	370 mA										
4-8	Peak stall torque	29 kg.cm										
4-9	Stall current	3.5 A										
	Work Voltage	12 V										
4-10	No load speed	0.07 sec/60°										
4-11	Runnig current (no load)	440 mA										
4-12	Peak stall torque	40 kg.cm										
4-13	Stall current	4.0 A										
Make table		CHECK		APPROVE								
MR.ZHONG		MR.LIU		Manager.ZHOU								

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GSN	XQ-8H	Product Name	XQ-POWER 12V40kg-cm Hight Voltage Brushless Tail Servo	Model	XQ-BLS8140TTL	Material	CNC all-metal case	
Control Specification								
Test display diagram				EMPHASIS				
Photos1				NO.	Item	Specification	AQL	
				5-1	Command signal	PWM / 485		
				5-2	Amplifier type	Digital Controller		
				5-3	Pulse width range	800 ~ 2200 μsec		
				5-4	Neutral position	1520 μsec		
				5-5	Running degree	360° (when1000~2000 μsec) Customization		
				5-6	Dead band width	1 μsec		
				5-7	Rotating direction	CCW (when 1000 ~ 2000μsec)		
				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			
				Accessories				
				Photos1				NO.
6-1								
6-2								
6-3								
6-4								
Other Accessories								
7-1	Plastic arm bag							
7-2	Screw							
7-3	Metal arm (additional purchase)							
Make table	CHECK	APPROVE						
MR.ZHONG	MR.LIU	Manager.ZHOU						
Reference opinions of all departments: Agree								