

Shenzhen XQPOWER Technology Co., LTD						DOCUMENT NO		N/D.201611.7.25								
						VER		X3_325.03								
						Page.		P.1								
						Prepare Date		20161110								
GSN		XQ-3S		Product Name		XQ-POWER 8.4V25kg-cm Hight Voltage Brushless Servo		Model		XQ-RS325		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		41*20.5*28.5 mm												
3-2		Servo Weight		65g												
3-3		Servo Gear		Stainless Steel												
3-4		Angle of limit		No Limit												
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 3P												
3-10		Built-in motor		Brushless motor												
3-11		Splash water resistance		Yes												
The Drawings								Electrical Specification								
Photos1								NO.		Test Operating Voltage Range						
								4-1		Work Voltage		6.0 V				
4-2		No load speed		0.12 sec/60°												
4-3		Runnig current (no load)		190 mA												
4-4		Peak stall torque		17.5 kg.cm												
4-5		Stall current		3.5 A												
		Work Voltage		7.4 V												
4-6		No load speed		0.09 sec/60°												
4-7		Runnig current (no load)		220 mA												
4-8		Peak stall torque		22 kg.cm												
4-9		Stall current		4 A												
		Work Voltage		8.4 V												
4-10		No load speed		0.07 sec/60°												
4-11		Runnig current (no load)		250 mA												
4-12		Peak stall torque		25 kg.cm												
4-13		Stall current		5 A												
Make table				CHECK		APPROVE										
MR.ZHONG				MR.LIU		Manager.ZHOU										

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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			700~2300 μsec											
								5-4	Neutral position			1500 μsec											
								5-5	Running degree			360° (when1000~2000 μsec) customization											
								5-6	Dead band width			2 μsec											
								5-7	Rotating direction			CCW (when1000~2000 μsec)											
								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								NO.	Other														
Photos1 								6-1															
								6-2															
								6-3															
								6-4															
								Other Accessories															
								7-1	Plastic arm bag														
								7-2	Screw														
								7-3	Metal arm (additional purchase)														
																							
								Reference opinions of all departments: Agree								Make table		CHECK		APPROVE			
								MR.ZHONG		MR.LIU		Manager.ZHOU											