



产品名称: 12V 100kg 485磁编码串行总线舵机

Product Name: 12V 100kg.cm 485 Magnetic Coded Serial Control BUS Servo

产品型号 Model No. SM100

**1. 使用环境条件 Apply Environmental Condition**

No.	Item	Specification
1-1	存储温度 Storage Temperature Range	-30℃~80℃
1-2	运行温度 Operating Temperature Range	-15℃~70℃

**2. 测试环境 Standard Test Environment**

No.	Item	Specification
2-1	温度 Temperature range	25℃ ±5℃
2-2	湿度 Humidity range	65%±10%

**3. 机械特性 Mechanical Specification**

No.	Item	Specification
3-1	尺寸 Size	A: 95.5mm B: 65mm C: 85mm
3-2	重量 Weight	860g ±0.2
3-3	齿轮类型 Gear type	Metal Gear
3-6	机构极限角度 Limit angle	360degree (4096)
3-7	轴承 Bearing	2 Ball bearings
3-8	出力轴 Horn gear spline	D shape dia=8.0mm
3-9	摆臂 Horn type	No
3-10	外壳 Case	metal
3-11	舵机线 Connector wire	150mm ±5 mm
3-12	马达 Motor	carbon motor
3-13	防水性能 Splash water resistance	NO

**4. 电气特性 Electrical Specification (Function of the Performance)**

No.	工作电压 Operating Voltage Range	12V	
4-1*	静态电流 Idle current (at stopped)	15mA	
4-2*	空载速度 No load speed	0.25sec/60degree (40RPM)	
4-3*	空载电流 Runnig current (at no load)	200 mA	
4-4	堵转扭矩 Peak stall torque	120kg.cm	
		1669.4oz.in	
4-5	堵转电流 Stall current	4500 mA	

Note: "\*"definition is average value when the servo runing with no load



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5. 控制特性 Control Specification:

No.	Item	Specification
5-1	控制信号 Command signal	Bus Packet Communication 485
5-2	协议类型 Protocol Type	Half duplex Asynchronous Serial Communication
5-3	ID范围 ID range	0-253
5-4	通读速率 Communication Speed	38400bps ~ 1 Mbps
5-5	旋转角度 Running degree	360° (when4096)
5-6	反馈 Feedback	Load, Speed, Input Voltage, Current
5-7	位置传感器分辨率 Position Sensor (Resolution)	Magnetic Coded (360° /4096)

6. 外形图 The Drawings

