



产品名称: 6V 20Kg.cm 360度磁编码TTL串行总线舵机
 Product Name: 6V 20kg.cm 360Degree Magnetic code Serial Control TTL Servo

产品型号 Model No. SCS20-360T

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	-20℃~80℃

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: 40mm B: 20mm C: 40.5mm
3-2	重量 Weight	62g
3-3	齿轮类型 Gear type	Steel Gear (Gear Ratio 275:1)
3-6	机构极限角度 Limit angle	No Limiter
3-7	轴承 Bearing	2 Ball bearings
3-8	出力轴 Horn gear spline	25T(5.96mm)
3-9	摆臂 Horn type	Aluminium
3-10	外壳 Case	Aluminium&Plastic
3-11	舵机线 Connector wire	150mm ±5 mm(5264 Head)
3-12	马达 Motor	Metal brush 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	6V	7.4V
4-1*	静态电流 Idle current(at stopped)	10mA	10mA
4-2*	空载速度 No load speed	0.182sec/60degree 55RPM	0.154sec/60degree 65RPM
4-3*	空载电流 Runnig current(at no load)	160 mA	200mA
4-4	堵转扭矩 Peak stall torque	20kg.cm	21.5kg.cm
		278.23oz.in	299.1oz.in
4-5	堵转电流 Stall current	2100 mA	2500 mA
4-6	额定负载 Rated Load	6kg.cm≤	6kg.cm≤
4-7	额定电流 Rated current	800mm≤	800mm≤
4-8	KM常数	10kg.cm/A	
4-9	电机内阻 Terminal resistance	2.5Ω	

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 TTL level
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° (when 0~4096)-CW
5-6	反馈 Feedback	Load, Position, Speed, Input Voltage, Current, Temperature
5-7	位置传感器分辨率 Position Sensor (Resolution)	12Bits Magnetic Coding (360° /4096)

6. 外形图 The Drawings

