

**产品规格书****Specification of Product**

产品名称: 6V 15公斤数码机器人舵机
 Product Name: 6V 15kg.cm Digital Robot Servo

产品型号 Model No. SCS15

1. 使用环境条件 Apply Environmental Condition

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

2. 测试环境 Standard Test Environment

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

3. 机械特性 Mechanical Specification

No.	Item	Specification
3-1	尺寸 Size	A: 40.0mm B: 20.0mm C: 40.5mm
3-2	重量 Weight	59g
3-3	齿轮类型 Gear type	Metal Gear
3-6	机构极限角度 Limit angle	No Limit
3-7	轴承 Bearing	2 Ball bearings
3-8	出力轴 Horn gear spline	25T
3-9	摆臂 Horn type	Plastic, POM
3-10	外壳 Case	Nylon & Fiberglass
3-11	舵机线 Connector wire	150mm ±5 mm
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	4.8V	6V
4-1*	静态电流 Idle current(at stopped)	5mA	7mA
4-2*	空载速度 No load speed	0.18sec/60°	0.16 sec/60°
4-3*	空载电流 Runnig current(at no load)	160 mA	190 mA
4-4	堵转扭矩 Peak stall torque	14kg. cm	15kg. cm
		194.8oz. in	208.7oz. in
4-5	堵转电流 Stall current	1200 mA	1500mA

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	180° (when 0~1023)
5-6	反馈 Feedback	Load, Speed, Input Voltage
5-7	位置传感器分辨率 Position Sensor (Resolution)	Potentiometer (180° /1024)

6. 外形图 The Drawings
