



产品名称: 8.4V 40kg 串行总线舵机 Product Name: 8.4V 40kg.cm Serial Control BUS Servo
产品型号 Model No. SCS40-DS

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: 40mm B: 20mm C: 43mm
3-2	重量 Weight	78g ±0.2
3-3	齿轮类型 Gear type	Metal Gear
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
3-9	摆臂 Horn type	Aluminium
3-10	外壳 Case	Aluminium
3-11	舵机线 Connector wire	200mm ±5 mm
3-12	马达 Motor	coreless 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	8.4V
4-1*	静态电流 Idle current (at stopped)	5mA	6mA
4-2*	空载速度 No load speed	0.16sec/60degree	0.12sec/60degree
4-3*	空载电流 Running current (at no load)	100 mA	120 mA
4-4	堵转扭矩 Peak stall torque	38.6kg.cm	42.5kg.cm
		536.04oz.in	590.2oz.in
4-5	堵转电流 Stall current	1200 mA	1800mA

Note: "*"definition is average value when the servo running 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	300° (when 0~1023) $\pm 5^\circ$
5-6	反馈 Feedback	Load, Speed, Input Voltage
5-7	位置传感器分辨率 Position Sensor (Resolution)	Potentiometer (300° /1024) $\pm 5^\circ$

6. 外形图 The Drawings

