



产品名称: 7.4V 40kg 串行总线舵机 Product Name: 7.4V 40kg.cm Serial Control BUS Servo
产品型号 Model No. SCS46-25T

**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: 40mm B: 20mm C: 43.05mm
3-2	重量 Weight	88g ±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 (5.9mm)
3-9	摆臂 Horn type	Aluminium
3-10	外壳 Case	Aluminium
3-11	舵机线 Connector wire	150mm ±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	7.4V
4-1*	静态电流 Idle current (at stopped)	5mA	6mA
4-2*	空载速度 No load speed	0.27sec/60degree ±5%	0.21sec/60degree ±5%
4-3*	空载电流 Running current (at no load)	120 mA	130 mA
4-4	堵转扭矩 Peak stall torque	33.3kg.cm	40.5kg.cm
		463.25oz.in	563.4oz.in
4-5	堵转电流 Stall current	2500 mA	3000mA

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	通信速率 Communication Speed	38400bps ~ 1 Mbps
5-5	有效控制角度 Running degree	300°
5-6	反馈 Feedback	Load, Speed, Input Voltage, Current, Temperature
5-7	位置传感器分辨率 Position Sensor (Resolution)	Potentiometer (320° /1024) ±5%

### 6. 外形图 The Drawings

