

**产品规格书****Specification of Product**

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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

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: 40.5mm B: 20.5mm C: 36mm |
| 3-2 | 重量 Weight | 70g ±0.2 |
| 3-3 | 齿轮类型 Gear type | Metal Gear |
| 3-6 | 机构极限角度 Limit angle | 无限制 |
| 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 | 铝合金 |
| 3-11 | 舵机线 Connector wire | 200mm ±5 mm |
| 3-12 | 马达 Motor | 空心杯马达 |
| 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 | 0.12sec/60degree | 0.10sec/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 | 总线数据包TTL电平 | |
| 5-2 | 协议类型 Protocol Type | 半双工异步通信 | |
| 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) | |
| 5-6 | 反馈 Feedback | 位置、温度、速度、电压、负载 | |
| 5-7 | 位置传感器分辨率 Position Sensor (Resolution) | Potentiometer (300° /1024) | |

6. 外形图 The Drawings

