

产品名称: 8.4V32公斤数码舵机 Product Name: 8.4V32kg-cm Digital Servo

产品型号 Model: OCS-D303

1. 使用环境条件 Apply Environmental Condition

| No. | Item | Specification |
|-----|----------------------------------|---------------|
| 1-1 | 存储温度 Storage Temperature Range | -20°C~70°C |
| 1-2 | 运行温度 Operating Temperature Range | -15°C~65°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 | 20*40*37.5 mm |
| 3-2 | 重量 Weight | 73.5g no including accessory |
| 3-3 | 齿轮类型 Gear type | Steel Gear |
| 3-6 | 机构极限角度 Limit angle | 210° |
| 3-7 | 轴承 Bearing | 2 Ball bearings |
| 3-8 | 出力轴 Horn gear spline | 25T- φ 5.92mm |
| 3-9 | 摆臂 Horn type | Plastic, POM |
| 3-10 | 外壳 Case | Aluminium CNC |
| 3-11 | 舵机线 Connector wire | 300mm |
| 3-12 | 马达 Motor | Coreless motor |
| 3-13 | 防水性能 Splash water resistance | Yes IP67 |

4. 电气特性 Electrical Specification (Function of the Performance)

| No. | 工作电压 Operating Voltage Range | 4.8 V | 6.0 V |
|-----|---------------------------------|---------------|---------------|
| 4-1 | 空载速度 No load speed | 0.180 sec/60° | 0.160 sec/60° |
| 4-2 | 空载电流 Runnig current(at no load) | 280 mA | 350 mA |
| 4-3 | 堵转扭矩 Peak stall torque | 22 kg.cm | 26 kg.cm |
| 4-4 | 堵转电流 Stall current | 3000 mA | 3300 mA |
| | | | |
| No. | 工作电压 Operating Voltage Range | 7.4 V | 8.4 V |
| 4-1 | 空载速度 No load speed | 0.145 sec/60° | 0.135 sec/60° |
| 4-2 | 空载电流 Runnig current(at no load) | 400 mA | 450 mA |
| 4-3 | 堵转扭矩 Peak stall torque | 29 kg.cm | 32 kg.cm |
| 4-4 | 堵转电流 Stall current | 4000 mA | 4500 mA |
| | | | |

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 | PWM 1520 μ S/333Hz |
| 5-2 | 放大器类型 Amplifier type | Digital Controller |
| 5-3 | 脉冲宽度范围 Pulse width range | 500~2500 μ sec |
| 5-4 | 中立位置 Neutral position | 1500 μ sec |
| 5-5 | 旋转角度 Running degree | 90° (when 1000~2000 μ sec) |
| 5-6 | 死区宽度 Dead band width | 2 μ sec |
| 5-7 | 旋转方向 Rotating direction | CCW (when 1000~2000 μ sec) |

6. 外形图 The Drawings

