

产品规格书

Specification of Product

产品名称: 16.8V150公斤无刷舵机 Product Name: 16.8V150kg-cm BLS Servo

产品型号 Model: OCS-D1501

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 | -10°C~60°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 | 64.0*31.5*73.3 mm |
| 3-2 | 重量 Weight | 365 g |
| 3-3 | 齿轮类型 Gear type | Steel Gear |
| 3-6 | 机构极限角度 Limit angle | 180° |
| 3-7 | 轴承 Bearing | 2 Ball bearings |
| 3-8 | 出力轴 Horn gear spline | 15T 7.6 mm |
| 3-9 | 摆臂 Horn type | Metal |
| 3-10 | 外壳 Case | Aluminium CNC |
| 3-11 | 舵机线 Connector wire | 310 mm #20 AWG2pin #22 AWG3pin |
| 3-12 | 马达 Motor | BLS motor |
| 3-13 | 防水性能 Splash water resistance | Yes |

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

| No. | 工作电压 Operating Voltage Range | 2S (8.4 V) | 3S (12.6 V) | 4S (16.8V) |
|-----|----------------------------------|--------------|--------------|--------------|
| 4-1 | 空载速度 No load speed | 0.29 sec/60° | 0.18 sec/60° | 0.13 sec/60° |
| 4-2 | 空载电流 Runnig current (at no load) | 150 mA | 270 mA | 400 mA |
| 4-3 | 堵转扭矩 Peak stall torque | 90 kg.cm | 120 kg.cm | 150 kg.cm |
| 4-4 | 堵转电流 Stall current | 6.5 A | 8.8 A | 13A |
| 4-5 | 静态电流 Idle current | 50 mA | 50 mA | 50 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 50~333Hz |
| 5-2 | 放大器类型 Amplifier type | Digital Controller |
| 5-3 | 脉冲宽度范围 Pulse width range | 800~2200μsec |
| 5-4 | 中立位置 Neutral position | 1500 μsec |
| 5-5 | 旋转角度 Running degree | 90° (when 1000~2000 μ sec) |
| 5-6 | 死区宽度 Dead band width | 2 μsec |
| 5-7 | 旋转方向 Rotating direction | CCW (when 1000~2000 μsec) |

6. 外形图 The Drawings

