

产品名称: 8.4V55公斤无刷舵机 Product Name: 8.4V55kg-cm BLS Servo

产品型号 Model: OCS-BLS553

1. 使用环境条件 Apply Environmental Condition

No.	Item	Specification
1-1	存储温度 Storage Temperature Range	-40°C~70°C
1-2	运行温度 Operating Temperature Range	-40°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	A: 40mm B: 20mm C: 36.5mm D: 48.0mm E: 10mm
3-2	重量 Weight	67.5g 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
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	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	4.8 V	6.0 V
4-1	空载速度 No load speed	0.17 sec/60°	0.145 sec/60°
4-2	空载电流 Runnig current(at no load)	300 mA	350 mA
4-3	堵转扭矩 Peak stall torque	36 kg.cm	45 kg.cm
4-4	堵转电流 Stall current	4200 mA	5200 mA
No.	工作电压 Operating Voltage Range	7.4 V	8.4 V
4-1	空载速度 No load speed	0.125 sec/60°	0.110 sec/60°
4-2	空载电流 Runnig current(at no load)	410 mA	460 mA
4-3	堵转扭矩 Peak stall torque	51 kg.cm	55 kg.cm
4-4	堵转电流 Stall current	6100 mA	7000 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

