Famous Professional Servo R&D Manufacturer

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1. 使用環境條件

Apply Environmental Condition:

No.	项目 item	规格 standard
1-1	保存溫度 Storage Temperature Range	-20°C ~60°C
1-2	操作溫度 Operating Temperature Range	-10°C∼50°C
1-3	操作電壓 Operating Voltage Range	4.5V∼6V

2. 測試環境

Standard Test Environment:

		每一个检查必须是正常的温度和湿度进行测量,温度 25±5℃,相对湿度 65±10%,在按照本规范的标准测试条件下判断特征。
2-1	測試環境 Standard Test Environment	Every characteristic of the inspect must be normal temperature and humidity carry out the test , temperature $25\pm5^{\circ}$ C and relative humidity $65\pm10\%$ of judgment made in accordance with this specification standard testing conditions.

3. 外觀檢查

Appearance Inspection:

No.	项目 item	规格 standard
3-1	外觀尺寸 Outline Drawing	尺寸见附件 Dimension see the attachment
3-2	外觀 Appearance	无损坏,不允许影响功能 No damage which affects functions allowed

Dowor	Product Name	Model No.	Version	Page
FOWER HIGH PERFORMANCE	模拟伺服器 Analog Servo	HD-1160A	V1	1/3

4. 電 氣 特 性

Electrical Specification (Function of the Performance):

No.	项目 item	4.8V	6.0V
4-1	空載轉速 Operating speed (at no load)	0.14 sec/60°	0.12 sec/60°
4-2	空載電流 Running current (at no load)	160 mA	180 mA
4-3	停止扭力 Stall torque (at locked)	2.7 kg-cm	3.0 kg-cm
4-4	停止電流 Stall current (at locked)	680 mA	800 mA
4-5	待機電流 Idle current (at stopped)	4 mA	5 mA

注:项目 4-2 定义平均值时,伺服器无负荷运行

Note: Item 4-2 definition is average value when the servo running with no load

5. 機械特性

Mechanical Specification:

No.	项目 item	规格 standard
5-1	外觀尺寸 Overall Dimensions	见附件 See the drawing
5-2	機構極限角度 Limit angle	180°± 10°
5-3	重量 Weight	16.0 ± 1g
5-4	導線規格 Connector wire gauge	#26 PVC
5-5	導線長度 Connector wire length	150 ± 5 mm
5-6	舵片規格 Horn gear spline	$25T/\ \phi\ 5.77$
5-7	舵片種類 Horn type	十字,圆盘,星型,条型 Cross , Disk , Star, Single,
5-8	減速比 Reduction ratio	1/313

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6. 控制特性

Control Specification:

No.	项目	规格
6-1	控制系統 Control system	改变脉冲宽度 Pulse Width Modification
6-2	放大器種類 Amplifier type	模拟控制器 Analog Controller
6-3	操作角度 Operating travel	90° (在 1000→2000 μ sec)
6-4	中立位置 Neutral position	1500 μ sec
6-5	脈波訊號虛位 Dead band width	7 μ sec
6-6	旋轉方向 Rotating direction	顺时针 (在 1500→2000 μsec) Counterclockwise (when1500→2000 μsec)
6-7	脈波寬度範圍 Pulse width range	800 - $2000\mu{ m sec}$
6-8	可作動角度範圍 Maximum travel	大约 165°(在 800→2200

