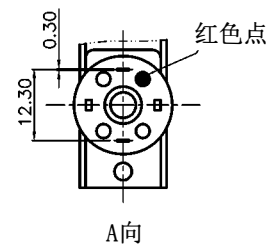
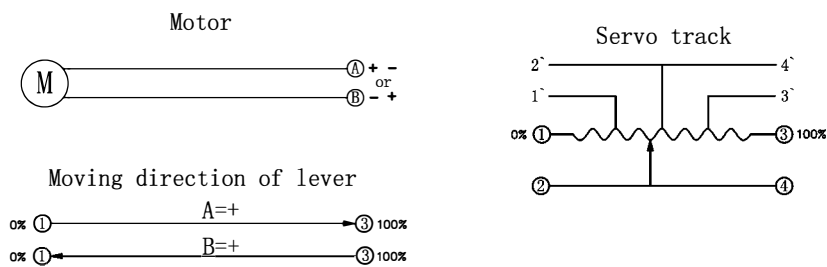


P. C. B MOUNTING HOLE DETAIL



Circuit diagram



重点控制标注号尺寸

03					
02					
01					
00			NAME	SM100BN-XXX-L93T1H9-XX	
NO	DATE	DESCRIPTION	DRAWING NO	SM100B-01	
SCALE		TOLERANCE	DRAWN BY	CHECK BY	APPROVED BY
UNIT	mm	L ≤ 10 ± 0.3			
		10 < L ≤ 30 ± 0.5			
		30 < L ≤ 100 ± 1.0			
		ANGLE ± 5°			

SM SERIES GENERAL SPECIFICATION

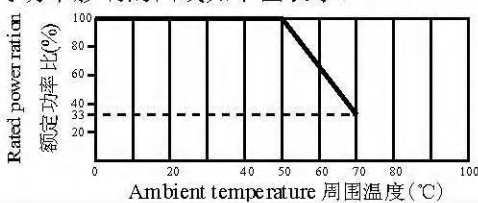
SM系列规格书

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1、GENERAL 一般事项

1-1、Scope The specification applies to model SM type mainly used for consumer products	适用范围 此规格书适用于SM机型
1-2、Operating temperature range	使用温度范围： -10℃~60℃
1-3、Storage temperature range	保存温度范围： -30℃~70℃
1-4、Test conditions: Standard atmospheric conditions: Unless otherwise specified,the standard range of atmospheric conditions for making measurements and test is as follows: Ambient temperature:5~35℃ Relative humidity:45~85% Air pressure:86kpa to 106kpa If there is any doubt about the results,measurements shall be Made within the following limit: Ambient temperature:20±2℃ Relative humidity:60~70% Air pressure:86kpa to 106kpa	试验状态 标准状态 无特别规定之实验及测定以温度5~35℃，相对湿度45~85%，气压86~106kpa之标准状态测定。 发生判定疑问或另有特别要求则以基准状态（温度20±2℃，相对湿度60~70%，气压 86~106kpa）为标准测定。

2 ELECTRICAL CHARACTERISTICS 电气性能

Item 项目	Conditions 条件	Specifications 规格
2-1、Nominal total resistance and tolerance 公称全阻抗值	The resistance between terminals 1 and 3 shall be measured 端子1-3间阻值测定。	<u>10K</u> Ω ± 20%
2-2、Resistance law 阻抗变化特性	Measurement shall be made by the resistance law method. For other procedures(refer JISC5261 standard) 用电压法测试，参照JISC5261标准	<u>B Taper</u> 线性 Refer to the attached 参见附页
2-3、Power rating 额定功率 (W)	Power rating is based on continuum full load operation at the maximum voltage between terminals 1 and 3 . Power rating vs.ambient temperature shall be denoted on the following graph. 端子1-3间连续负载后的最大功率。 环境温度对功率影响的曲线如下图表示： 	B Taper: 0.5W Other Taper: 0.25W
2-4、Rated voltage 额定电压	Rated voltage 额定电压： $E = \sqrt{PR}$ Power rating P: 额定功率 (W) Nominal total resistance R: 公称全阻抗值 (Ω) When the rated voltage exceeds the maximum operating voltage. The maximum operating voltage shall be the rated voltage. 额定电压大于最高使用电压时,最高使用电压作为额定电压。	Max Operation Voltage 最高工作电压 AC DC 10V AC 200V

文控编号: SM-001	编制时间:				TITLE 标题: Master Type Potentiometer (Slide) 马达驱动电位器(直滑)
版本号: 01	2014.7.4				
REVISION变更记事:	变更时间:				
重新整理	2014.11.18	DSGD.主办	CHKD.审查	APPD.核准	
增加带负载寿命规格	2015.01.16				

SM SERIES GENERAL SPECIFICATION

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2 ELECTRICAL CHARACTERISTICS 电气性能					
Item 项 目	Conditions 条 件			Specifications 规 格	
2-5、 Residual resistance 残留电阻	The resistance at the end of the (A).Resistance between terminals 1 and 2,and terminal 2 and 3 shall be measured. A: Travel of effective slide 接触刷停留在(A)终端位置,在端子1-2间,端子2-3间测定之电阻值。 A:有效滑动行程			500 Ω MAX. 500 Ω 以下	
2-6、 Slide noise 滑动噪音	Apply DC 20V between terminals 1-3 to measure the noise voltage . (rated voltage ≤20V .apply by rated voltage) 在端子1-3间加直流电压20V(额定电压≤20V,则以额定电压值测试)后,测定的杂音电压。 Slide speed :1 Cycles/3s 滑动速度:1来回/3秒			68mVp-p Less than 68mVp-p 以下	
2-7、 Insulation resistance 绝缘阻抗	Apply voltage of DC 250V and measure for 1 minute. DC 250V 1分钟	Between individual terminals and frame 端子-固定板		100MΩ or more 100MΩ 以上	
2-8、 Dielectric strength 耐电压	Trip current:2mA Measuring frequency : 50~60Hz ; 250V AC for 1 min 电流: 2mA 频率: 50~60Hz AC 250V 1分钟	Between individual terminals and frame. 端子-固定板		Without arcing or breakdown. 不得有绝缘破坏。	
2-9.Conductive resistance 导通阻抗	Touch sense track resistance (lever between terminal (T)) 测量推柄与端子(T)脚间阻抗。			1 KΩ MAX. 1 KΩ 以下	
3 Mechanical characteristics 机械性能					
3-1、 Total travel slide 全滑动行程	Travel fo effective slide. 有效滑动行程			<input type="checkbox"/> 60±0.5mm <input checked="" type="checkbox"/> 100±0.5mm	
3-2、 Sliding force 滑动推力	Standard atmospheric conditions 常温5°C至35°C。 Traveling speed :20 mm/S 移动速度: 20 mm/秒。 Operating position:Tip of the lever 操作位置: 柄部顶端。			40gf ± 30gf	
3-3、 Starting force 起动力	Standard atmospheric conditions 常温5°C至35°C。 Traveling speed :20 mm/S 移动速度: 20 mm/秒。 Operating position:Tip of the lever 操作位置: 柄部顶端。			Sliding force + 1N MAX 滑动推力 + 1N 以下	
3-4、 Stop trength 止档强度	The following torsion moment load of 5Kgf shall be applied to the shaft for 10sec at both ends (after fixation) 固定后滑动到前后两端末加5Kgf拉力保持10秒			Electrical characteristics shall be satisfied with specification. 电气性能符合规定要求	
3-5、 Slide andle wibble 滑柄偏摆量				1.6mm Max.	
3-6、 Terminal strength 端子强度	After fixed add 0.7kgf static force along to the terminal position and keep 10 s 固定后沿端子方向加 0.7kgf 静载荷力并保持10秒			Electrical characteristics shall be satisfied with specification. 电气性能符合规定要求	
文控编号: SM-001	编制时间:				
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REVISION变更记事:	变更时间:				
重新整理	2014.11.18	DSGD.主办	CHKD.审查	APPD.核准	TITLE 标题:
增加带负载寿命规格	2015.01.16				Master Type Potentiometer (Slide) 马达驱动电位器(直滑)

SM SERIES GENERAL SPECIFICATION

SM系列规格书

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5 Motor drive characteristics 马达驱动时性能					
Item 项 目	Conditions 条 件	Specifications 规 格			
5-1、Rated voltage 额定电压	Between terminals of the motor 马达端子间	10 V D.C.			
5-2、Operating supply voltage range 使用电压范围	Voltage supply ripple: 0.3%or less 电压波动：0.3%以下	6-11 V D.C.			
5-3、Starting current 起动电流	Supply voltage 10 V D.C. 加电压10 V D.C.	800 mA or less 800 mA以下			
5-4、Starting force 起动滑动推力	Supply voltage 10 V D.C. It shall be measured at the top or lever 加电压10 V D.C.，测量位置为柄部顶端	0.2N (20gf) or more 0.2N (20gf) 以上			
5-5、Moving speed of lever 推柄移动速度	Supply voltage 10 V D.C. 加电压10 V D.C.	20 mm /0.1 ses or more 20 mm /0.1 秒以上			
5-6、Maximum current 推柄固定时电流	Lock the shaft the motor and the rated vol-rage shall be applied to the motor. 推柄固定后加额定电压测试	400 - 800 mA			
6、Application Notes 使用上的事项					
<p>6-1、Avoid storing the products in a place at high humidity and in Corrosive gases.please use this product with 12 months limitation. Ifany yemainder left after packing is opened,please store it with proper moistureproofing, gasproofing etc.</p> <p>避名储藏于高温、高湿及腐蚀的场所。产品购入后需在12个月内使用完。拆包装后未使用完的剩余产品需储藏于防潮防毒的环境下。</p>					
文控编号： SM-001	编制时间：				
版本号： 01	2014.7.4				
REVISION变更记事：	变更时间：				
重新整理	2014.11.18	DSGD.主办	CHKD.审查	APPD.核准	TITLE 标题：
增加带负载寿命规格	2015.01.16				Master Type Potentiometer (Slide)
					马达驱动电位器(直滑)

