型號:SR29系列

MODEL NAME: SR29 SERIES

- 1. 一般事項 General.
- 1.1 適用範圍:此規範適用於電子機器之开关。

Application: This specification is applied to Switch used for electronic equipment.

- 1.2 使用溫度範圍 Operating temperature:-10~+55℃
- 1.3 試驗狀態: 若無特別規定限制,則以溫度5~35℃、相對濕度45~85%、氣壓860~1060 mbar 之標準 狀態測之。但對此標準狀態之測定值發生判定疑問或有特殊要求則以基準狀態。(溫度20±2℃、相 對濕度65±5%、氣壓860~1060 mbar)為准測定。)

Test conditions:the standard test conditions shall be $5\sim35^{\circ}$ in temperature, $45\sim85^{\circ}$ RH and $860\sim1060$ mbar in atmospheric, should any doubt arise in judgment, tests shall be conducted at $20\pm2^{\circ}$, $65\pm5^{\circ}$ RH and $860\sim1060$ mbar.

2. 構造、尺寸 Construction and dimensions: 依組立圖 Refer to attached drawing.

3. 電氣性能 Electrical characteristics

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NO.	項 目 Items	試驗條件 Test conditions			格 cations		
3.01		使用1KHz±200Hz(最大20mV,50mA)及5V DC,1A 壓降法測試			不大於 50mΩ Less than 50mΩ		
3.02	開關功率 Switch power	開關所能承受的最大電壓和電 The switch can take maxim current	125V AC 0.	125V AC 0.3A			
3.03	絕緣阻抗 Insulation resistance	ion 測試位置:端子和軸心間。			100MΩ以上 (MIN)		
3.04	耐電壓 Voltage proof	施加500V 之交流電壓,測詞 測試位置:端子和外殼、端 Applying 500V AC measure Applied position:Between frame.Between terminal an	絕緣破壞 Without dama	不可有損傷、電弧、 絕緣破壞 Without damage to parts arcing or breakdown.			
1			PREPARED BY	REVIEWED BY	APPROVED BY		
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	DATE	DESCRIPTION	2012.08.08				



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4. 機械性能 Mechanical characteristic

NO.	項 目 Items	試驗條件 Test condit			格 ications		
4.01	作動力 Operating force	旋轉速度: 30°/秒 操作位置: 軸心前端5mm處 Rotation speed:30°/sec. Operating position:5mm fre		0.5 [~] 1.5kgf.cm			
4.02	旋轉止檔強度 Rotation stopper strength	測試時間: 旋轉至開關起始端 10±1秒。 Test duration:rotate to sw beginning and at the end.			大於5kgf.cm More than 5kgf.cm		
4.03	軸推拉強度 Push-pull strength of shaft	測試時間:使用推力10秒後立 測試點及方向:測試點為軸心 Test duration:10 sec. of p immediately followed by 20 force should be applied.Te direction:the strength sho the top end of the shaft i	向。 大於8kgf.c More than to	, 大於8kgf.cm More than 8kgf.cm			
4.04	軸心晃動 Shaft wobble	在距離軸心頂端5mm處施加與 Apply force perpendicular the position of 5mm to be shaft.	t L-軸心長度				
4.05	軸向間隙 Shaft play in axial	沿軸心的軸向施加5kgf的拉拔 Apply 5kgf of force to the direction	0.8mm				
4.06	軸套螺牙強度 Bushing nut tighting strength	軸套匹配螺母後施加扭力。 Apply torsion force for bu nut	塑膠軸套: Metal bush more than Plastic bus	金屬軸套:大於7kgf.cm 塑膠軸套:大於5kgf.cm Metal bushing: more than 7 kgf.cm Plastic bushing: more than 5 kgf.cm			
4.07	端子強度 Terminal strength	靜態負荷1kgf於端子的頂端,測試時間為 一分鐘。測試數量為一個產品的端子數。 A static load of 1kgf.cm shall be applied to the tip of the terminal in a desired direction for one minute.The number of tests shall be one per terminal.		Terminal w	ithout		
			PREPARED BY	REVIEWED BY	APPROVED		
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5. 耐久性 Durability

NO.	項 目 Items		試驗條件 Test conditions			格 cations	
5.01 使用壽命 10000個週期,運行 (無負載) 每分鐘9 [~] 12次。			不間斷,運行速		全阻變化小放 接觸阻抗小放 絕緣電阻大放 耐電壓250V 操作力不超出 初始力	&200m Ω &50M Ω AC測試1分鐘	
	Operating life under no load	10,000 cycles of operation shall be performed continuously at a rate of 9^{12} cycles per minute without load After operating life test , shall be in accordance with the following specifications			Total resistance:less than±10% Contact resistance: less than 200mΩ Insulation resistance: more than 50MΩ Withstand voltage: 250V AC per 1 minute Operating force: less than +10%~-30% for initial operating force 全阻變化小於±10% 接觸阻抗小於500mΩ 絕緣電阻大於50MΩ 耐電壓250V AC測試1分鐘 操作力不超出+10%~-30% 初始力		
5.02	使用壽命 (負載)	10000個週期,運行期間不間斷,運行速度 每分鐘9 [~] 12次,使用AC 125V 0.3A的負載 進行。					
	Operating life under load			of	than±10% Contact re less than Insulation more than Withstand 250V AC pe Operating less than	500m Ω resistance: 50M Ω voltage: r 1 minute force:	
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6. 耐候性 Weather performance

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NO.	項目	試驗條件	規格		
110.	Items	Test conditions	Specifications		
6. 01	濕度測試 Humidity test	使用溫度40±2°C, 濕度90~95%RH的測試條件 240小時後, 放置也常溫下一小時後進行測試。 Texting porentiometers being kept in the conditions at 40 ± 2 °C and $90^{-}95$ %RH for 240 hours in anormal ambient condition for an hour. then to be measured with in an hour.	 通過以上的測試,該產品能達到以下要求: 絕緣測試:DC 500V電壓, 不小於50MΩ 耐壓測試:使用AC 250V電 壓,測試一分鐘,不可有損傷、電弧、絕緣破壞,其 		
6.02	高溫測試 Heat test	使用溫度70±2°C的測試條件16小時後,放置 也常溫下一小時後進行測試。 Texting porentiometers being kept in the conditions at 70±2℃ in temoerature for 16 hours in anormal ambient condition for an hour. then to be measured with in an hour.	他規格要求變化小於土20% Through the above tests,the product can achieve: Insulation resistance: More than 50MΩ at 500V DC		
6. 03	低溫測試 COld test	使用溫度-10±2°C的測試條件16小時後,放置 也常溫下一小時後進行測試。 Texting porentiometers being kept in the conditions at -10 ± 2 °C in temoerature for 16 hours in anormal ambient condition for an hour. then to be measured with in an hour.	Withstand voltage: For 1 minute or more at 250V AC, without damage to parts arcing or breakdown. Other requirements change less than ±20%.		

7. 焊接耐熱性 Resistance to soldering heat

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	Re	1. Soldering sh following cond 預熱溫度 Preheat temperature	Preheat 100℃以下,2分鐘以闪。 temperature (Surface temperature of mounting side)100℃ MAX Within 2 MIN. 260℃±5℃,5秒以内。 260℃±5℃,Within 5 sec. temperature 手焊溫度 Manual solder 350℃±5℃,Within 3 sec				と在初期的 子不可有 月顯鬆動。 otal is relative e before ithout ooseness of nd failure	
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