SRRN SWITCHES SPECIFICATIONS

SRRN 開關製品規格書

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SRRN-006	1.0	(1/4)

- 1. General 一般事項
 - 1.1 Application: This specification is applied to low current circuit(Secondary circuit) switch used for electronic equipment. 適用範圍:此規範適用於低電流回路(2次側回路)電子機器用迴轉式開關。
- 1.2 Test Conditions: The standard test conditions shall be 5~35°C in temperature, 45~85%RH and 860~1060mbar in atmospheric pressure. Should any doubt arise in judgment, tests shall be conducted at 2010°C (51.1) 860~1060mbar.

試 驗 狀 態:若無特別規定限制,則以溫度 5~35℃,相對溼度 45~85%,氣壓 860~1060mbar 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別要求則以基準狀態(溫度 20±2°C,相對溼 度 65±5%, 氣壓 860~1060mbar)為準測定。

- 2. Appearance, Construction and dimensions. 外觀、構造、尺寸
 - 2.1 Appearance: Switch shall have good finishing, and shall have no rust, crack or plating failure. 外觀:各部分之加工須良好,機能上不能有生銹、刮傷、裂痕、電鍍不良及剝離等現象發生。
 - 2.2 Construction and dimensions: As per product drawing 構造、尺寸:依組立圖。
- 3. Rating 額定:0.15A 12V DC (resistance load)(阻抗負載)

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

4.Electrical performance 電氣性能

V	Property 項目	Test conditions 試驗條件	Performance 判定基準
4.1	Contact resistance 接觸阻抗	To be measured with 1 kHz±200 Hz max.20mV DC max. 50mA or 5V DC 1A 1 kHz±200 Hz 電壓 20mV DC 以下,電流 50mA 以下測定或 5V DC 1A 電壓下降法測定	Max 50mΩ 50mΩ以下
4.2	Insulation resistance 絕緣阻抗	To be measured with an insulation measuring device of 500V DC between all the terminals and between the terminals and the frame for 1 minute±5 seconds 以 500V DC 之電壓加於端子相互及端子與外框間 1 分±5 秒測定之	
4.3	Voltage proof 耐電壓	500V AC (50~60Hz) being applied between all the adjacent terminals and between the terminal and frame for 1 minute. 以 500V AC (50~60Hz 感度電流 2mA)之電壓加於端子相互間及端子 與外框間 1 分鐘測定之	Not breaking insulation 不可有絕緣破壞現象
4.4	Changeover timing 切換時間性	TOWN COM. TW WWW. 100X. COM. TW WWW. TW WW. TW WWW. TW WWW. TW WW. T	As per individual product drawing. 依組立圖

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5. Mechanical performance 機械功能

Property 項目	Test Condit	ions試驗條件		Performance	判定標準	
Operating torque 迴轉轉矩	N.COM.TW W	MMM.100X.	CON.TW	As per individual product drawing. 依組立圖		
Terminal strength 端子強度	terminal for 1 minute. One time	deformed but shall not				
Actuator strength 操作部強度	A static force of 10kgf being ap seconds. 軸端方向引張 10kgf 15 秒鐘。	Shall be free fr wobble, deformati Mechanical abnorm 不能有顯著的鬆動 異常現象發生	on and alities			
Soldering 焊錫吸附性			TN NN N NN N NNN NNN	More than 75% o part shall be c solder 浸泡部分須附著 75	overed by	
Soldering heat resistance 耐焊錫性	Temperature and duration of dip	ping 焊錫溫度和	TW	No abnormalities shall be observed in appearance and operation. The		
MMM.100X	WITH WITH	Temperature 溫度(℃)	Time (sec) 時間(秒)	electrical performan clauss4 shall be assi	ıred	
	安 線 师士	350±10	3 ⁺¹ ₋₀	日港早等川頂之露	与 州 化	
WWW.I	DY.COM.TW 00Y.COM.TW 100Y.COM.TW 100Y.COM.TW			MMM		
	迴轉轉矩 Terminal strength 端子強度 Actuator strength 操作部強度 Soldering 焊錫吸附性 Soldering heat resistance 耐焊錫性	Terminal strength 端子強度 A static force of 500gf being ap terminal for 1 minute. One time 端子前端任一方向加 500gf 之前 4 static force of 10kgf being ap seconds. 軸端方向引張 10kgf 15 秒鐘。 Soldering 焊錫吸附性 Temperature of solder 焊錫溫度 Duration of dipping 浸泡時間: Soldering heat resistance 耐焊錫性 Terminal of lead wiring 接線端子	Terminal strength 端子強度 A static force of 500gf being applied in one direct terminal for 1 minute. One time per terminal. 端子前端任一方向加 500gf 之靜負荷一分鐘(長衛子前端任一方向加 500gf 之靜負荷一分鐘(長衛子前端任一方向加 500gf 之靜負荷一分鐘(長衛子前端子前端子前端子前端子前端子前端子前 10kgf 15 秒鐘。 Soldering 焊 錫 吸 附 性 Temperature of solder 焊錫温度: 260±5°C Duration of dipping 浸泡時間 3±0.5 seconds Soldering heat resistance 耐 焊 錫 性 Temperature and duration of dipping 焊錫温度系 接線端子 Temperature and duration of dipping 焊錫温度系 接線端子 350±10	型轉轉矩 Terminal strength 端子強度 A static force of 500gf being applied in one direction on the tip of the terminal for 1 minute. One time per terminal. 端子前端任一方向加 500gf 之静負荷一分鐘(每支端子限制一次) 場子前端任一方向加 500gf 之静負荷一分鐘(每支端子限制一次) 場別 10kgf 15 秒鐘。 Soldering	Terminal strength 端子强度 A static force of 500gf being applied in one direction on the tip of the terminal for 1 minute. One time per terminal. 端子前端任一方向加 500gf 之静負荷一分鏈(每支端子限制一次) Sustain any tro deviation and be terminal and	

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	Property 項目	Test Conditions 試 驗 條 件	Performance 判定標準
6.1	Operating life (without load) 無負荷壽命	10,000 cycle operations at a rate of 15~18 cycle / minute without load 在無負載下連續動作 10,000 次(動作速度 15~18 次/分)	Contact resistance (4-1) : Ma $70 \text{m} \Omega$ Insulation resistance (4-2) : Morthan $100 \text{M} \Omega$
N.100 1002 1005	COM.TW COM.TW W.COM.TW	10,000 cycle operations at a rate of 15~18 cycle / minute with a load of 0.15A 12V DC DC 12V 0.15A(阻抗負載)下連續動作 10,000 次(動作速度 15~18 次/分)	Withstanding voltage (4-3): 500° AC 1 minute not breaking insulation. Operating force (5-1): Withi +10, -30% of specifications. There shall be n defects in appearance or in th mechanical functions. 接觸阻抗(4-1 項): 70m Ω以下 絕緣阻抗(4-2 項): 100M Ω以上 耐電壓(4-3 項): AC 500V 1 分錄絕緣不得破壞。 動作力(5-項): 規定值的+10, -30%以內。外觀、構造無異常現象
7.Wear	I ther-proof 耐候性	WWW.100Y.COM.TW WWW.1	ON.TW
7.1	WWW.	Switch for testing being kept in the conditions at -20±2°C in temperature for 96 hours, and in a normal ambient condition for one hour, then to be measured within one hour. Drop of water being taken away. -20±2°C 放置 96 小時試驗後,置於常溫常溼中 1 小時,除去水滴後,在 1 小時內測定之	AC 1 minute not

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			W	VV.10	NOTE	12 接點	MMM:1002	APPD	CHKD	DSDG
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	Property 項目	Test Conditions 試驗條件	Performance 判定標準
N.100Y.COM.T	耐熱性	定之Y.COM.TW WWW.100Y.COM.TW WWW.100Y.COM.TW	Operating force (5-1): Within +10, -30% of specifications. There shall be no defects in appearance or in the mechanical functions. 接觸阻抗(4-1 項): 70mΩ以下
7.3	耐濕性	Switch for testing being kept in the conditions at $40\pm^2$ °C in temperature 90~95% RH for 96 hours and in a normal ambient condition for one hour then to be measured within one hour. Drop of water being taken away. 在溫度 $40\pm^2$ °C 放置,相對溼度 $90\sim95\%$ 放置 96 小時試驗後,置於常溫常溼中 1 小時,除去水滴後,在 1 小時內測定之	経縁阻抗(4-2 項): 100M Ω以上 耐電壓(4-3 項): AC 500V 1分 鐘絕緣不得破壞・ 動作力(5-1 項): 規定值的+10, -30%以內。 外觀、構造無異常現象。
WWW 1.00 WWW W.100	溫度循環試驗	removed. 以下記條件作 5 個週期的試驗後放置 1 小時以內測試之,但是水珠必須去除 70±2°C (room temperature) 常温 -25±3°C 30分 30分 10~15分 10~15分 1 週期 (1 period)	Contact resistance (4-1): Max $70 \text{ m}\Omega$ Insulation resistance (4-2): More than $100 \text{ M}\Omega$ Resistance to humidity: More than $10 \text{ M}\Omega$ Withstanding voltage (4-3): 500V AC 1 minute not breaking insulation. Operating force (5-1): Within +10, -30% of specifications. There shall be no defects in appearance or in the mechanical functions. 接觸阻抗(4-1 項): $70\text{m}\Omega$ 以下絕緣阻抗(4-2 項): $100\text{M}\Omega$ 以上(但耐濕性試驗為 $10\text{M}\Omega$ 以上)耐電壓(4-3 項): AC 500V 1 分鐘絕緣不得破壞。動作力(5-1 項): 規定值的+10, -30%以內。外觀、構造無異常現象。

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Precaution on operation:

使用上注意事項:

◎ In case that DC voltage is constantly applied on the switch:

In that condition the switch may be democed and the switch: In that condition the switch may be damaged and degenerated on account of irregular migration of silver portion.

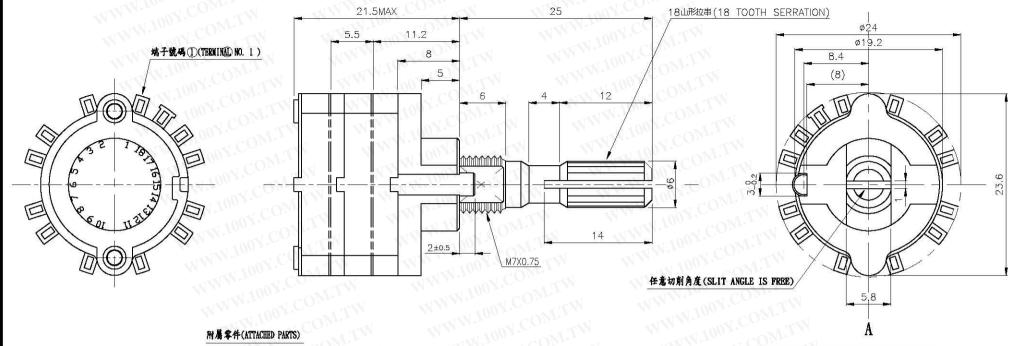
避免直流電持續加於開關上而產生銀移行,造成開關損壞劣化

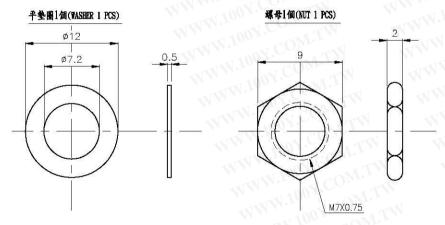
©Load of solder:

Load of solder: The terminals may wobble, be damaged in appearance, and be degenerated in the electrical performances when they are soldered and then added to extra load in some conditions. 端子銲接時負荷:端子銲接時若施加外力易產生變形、間隙以及電氣性能劣化等現象請注意

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量產圖面 版次:3.0





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迴路構成		(CIRCUIT DIAGRAM)					
2	段	(2 CIRC	UIT)				
12	接點	(12 POS	SITIONS)				
		O O	© S				
VV	1 亩	路 (1	POLE)				

柱記:(NOTES)

- 1. 退轉轉矩為0.7±0.3Kgf, cm (OPERATING FORCE: 0.7±0.3Kgf, cm)
- 2. 使用製品規格書SERN-006 (PRODUCT SPECIFICATIONS NO. SRRN-006)
- 3. 圖面所示之輪條反時鐘迴轉到底之位置(SWITCH IS SNOWN IN FULL C. C. W POSITION)
- 4. 切换時間性:非短路型 (CHANGEOVER TIMING NON-SHORTING)
- 5. 切換角度30° (STEP ANGLE:30°)
- 6. 拉辛谷位置須在A-A' 株上 (SERRATIONS VALLEY: ON THE LINE A-A')

變更說明:

Non Level-1/ RoHS	-1					N	M 101 J		-0M.1			
Controlled Substance	零	件 號	碼	名		¥	材料	規	格	庭	理	備考
TOLERANCES UNLESS OTHERWISE 未接定尺寸容許之公差 BASIC DIMENSIONS TOLERANCES		7007	cO	Nr.	CAA	三角法	單位 mm	比例2/1	CONT	W		
UP TO 10 (10 以下) ±0.3	MN	1.30	JC	Dist		承認	校對	設計	圖名:	CDDM	組立	国
ABOVE 10 TO 100(10-100) ±0.5		x1 100			1.7.	KSD	KSD	KSD	四心.	OITH	後日ユム	圍
ABOVE 100 (100 AL) ±0.8	IN	44.	1.17		- 1	2016.08.09	2018.08.09	2016.08.09	圖號:	CDDM	2C1N2) //
ANGULAR DIMENSIONS (角度) ±3°	記號	年月日	承認	校對	設計			类學和	画 流.	DIVIVIA	ZCINZ	. 4