



东莞市神九实业有限公

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产品描述: 电源直键开关

File/Edition: SJ-KDC-A10-W15

客户名称:

产品型号: 电源电源(系列)

客户 P/N:

SHNEJIU P/N: SJ-KDC-A10-W15

Representative:

Project Code:

规格书确认

承认: _____

职位: _____

签名: _____

日期: _____

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主要技術參數、性能

The Main Technology Performance

項目 Item	參數 Parameter
电路图 Circuit	ON-OFF
額定電流、電壓 Rated voltage Rated current	8/128A 250V~
絕緣電阻 Insulated resistance	≥100MΩ
接觸電阻 Contact resistance	≤50mΩ
介電強度(極間) Dielectric strength	≥1500V/5s
電氣壽命 Endurance	≥10000
使用溫度 Ambient temperature	T85

Appearance Diagram

Installation Hole Diagram Of Printing Circuit Board


Appearance Diagram

The Main Technology Performance

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介電強度(極間) Dielectric strength	≥1500V/5s
電氣壽命 Endurance	≥10000
使用溫度 Ambient temperature	T85

	 第一視角 THE FIRST ANGLE PROJECTION	 一般公差 GENERAL TOLERANCE	
比例 SCALE	2:1	單位 UNIT	mm
重量 WEIGHT	>0.5~6	角度 ANGLE	±0.10
批準 APPROVAL	>6~30	±0.20	>30~120
日期 DATE	±0.30	±0.10	±2°

	神九实业	電源開關	
POWER SWITCH	POWER SWITCH	POWER SWITCH	POWER SWITCH
KDC-A10-W15	KDC-A10-W15	KDC-A10-W15	KDC-A10-W15

規 格 書 SPECIFICATION		編號 No.																	
		日期 DATE																	
2009. 05. 23																			
<p>1. 概述 GENERAL</p> <p>1.1 系列 DESIGNATION: 電源開關 POWER SWITCH</p> <p>1.2 型號 MODULE No.: KDC-A10-W15</p> <p>1.3 電路圖 CIRCUIT: </p> <p>1.4 額定值 RATING: 8/128A 250V~</p> <p>1.5 使用溫度 OPERATING TEMPERATURE RANGE: 0 T 85℃</p> <p>1.6 儲存溫度 STORAGE TEMPERATURE RANGE: 0 T 85℃</p> <p>2. 外觀與尺寸 APPEARANCE AND DIMENSIONS</p> <p>2.1 外觀 APPEARANCE: 無影響產品使用性能的缺陷。 There shall be no defects that affect the serviceability of the product.</p> <p>2.2 標識 MARKING: 應有商標、型號、額定值、認證標志等標識。 There shall be trademark, module No., rating, license mark and other necessary mark on the switch body.</p> <p>2.3 尺寸 DIMENSIONS: 應符合產品圖。 Shall conform to drawing.</p> <p>3. 性能要求 PERFORMANCE</p> <table border="1"> <thead> <tr> <th>項目 ITEM</th> <th>測試條件 TEST CONDITIONS</th> <th>要求 REQUIREMENT</th> </tr> </thead> <tbody> <tr> <td colspan="3">3.1 電氣性能 ELETRICAL PERFORMANCE:</td> </tr> <tr> <td>3.1.1 接觸電阻 CONTACT RESISTANCE</td> <td>開關處于閉合狀態，用微電阻測試儀或高精度線性毫歐計測量端子間的電阻 The switch to be made in "on" state, and the resistance be measured between the two terminals with micro-resistance test instrument or high precision liner mro-ohm meter.</td> <td>≤50mΩ max</td> </tr> <tr> <td rowspan="2">3.1.2 絕緣電阻 INSULATION RESISTANCE</td> <td>觸點間的絕緣和功能絕緣： 約500伏的直流電壓施加在處于斷開狀態的開關的兩觸點間和開關的不同極之間，相同極性的導電件應連接在一起，施加電壓1分鐘后進行測量 INSULATION RESISTANCE BETWEEN CONTACT AND OPERATIONAL INSULATION: A d.c. voltage of approximately 500V is applied between the open contacts of each pole of a switch and between the different poles of which all the parts is connected together, the measurement shall be made after the voltage is applied for 1 min.</td> <td>10MΩ min</td> </tr> <tr> <td>加強絕緣： 約500伏的直流電壓施加在導電部件和覆在易接觸的開關外表面的金屬箔及易接觸的金屬部件之間。施加電壓1分鐘后進行測量 REINFORED INSULATION: A d.c. voltage of approximately 500V is applied between all live parts and a metal foil covering the outer accessible surface and accessible metal parts, the measurement shall be made after the voltage is applied for 1 min.</td> <td>100MΩ min</td> </tr> <tr> <td>3.1.3 介電強度 DIELECTRIC STRENGTH</td> <td>觸點間和各極間的介電強度： 處于斷開狀態的開關的兩觸點間和開關的不同極之間，應能承受基本為正弦波形，頻率為50或60赫茲的1500伏電壓1分鐘無擊穿或閃絡現象。 DIELECTRIC STRENGTH BETWEEN CONTACTS AND BETWEEN</td> <td>No flashover or breakdown shall occur</td> </tr> </tbody> </table>			項目 ITEM	測試條件 TEST CONDITIONS	要求 REQUIREMENT	3.1 電氣性能 ELETRICAL PERFORMANCE:			3.1.1 接觸電阻 CONTACT RESISTANCE	開關處于閉合狀態，用微電阻測試儀或高精度線性毫歐計測量端子間的電阻 The switch to be made in "on" state, and the resistance be measured between the two terminals with micro-resistance test instrument or high precision liner mro-ohm meter.	≤50mΩ max	3.1.2 絕緣電阻 INSULATION RESISTANCE	觸點間的絕緣和功能絕緣： 約500伏的直流電壓施加在處于斷開狀態的開關的兩觸點間和開關的不同極之間，相同極性的導電件應連接在一起，施加電壓1分鐘后進行測量 INSULATION RESISTANCE BETWEEN CONTACT AND OPERATIONAL INSULATION: A d.c. voltage of approximately 500V is applied between the open contacts of each pole of a switch and between the different poles of which all the parts is connected together, the measurement shall be made after the voltage is applied for 1 min.	10MΩ min	加強絕緣： 約500伏的直流電壓施加在導電部件和覆在易接觸的開關外表面的金屬箔及易接觸的金屬部件之間。施加電壓1分鐘后進行測量 REINFORED INSULATION: A d.c. voltage of approximately 500V is applied between all live parts and a metal foil covering the outer accessible surface and accessible metal parts, the measurement shall be made after the voltage is applied for 1 min.	100MΩ min	3.1.3 介電強度 DIELECTRIC STRENGTH	觸點間和各極間的介電強度： 處于斷開狀態的開關的兩觸點間和開關的不同極之間，應能承受基本為正弦波形，頻率為50或60赫茲的1500伏電壓1分鐘無擊穿或閃絡現象。 DIELECTRIC STRENGTH BETWEEN CONTACTS AND BETWEEN	No flashover or breakdown shall occur
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3.1.2 絕緣電阻 INSULATION RESISTANCE	觸點間的絕緣和功能絕緣： 約500伏的直流電壓施加在處于斷開狀態的開關的兩觸點間和開關的不同極之間，相同極性的導電件應連接在一起，施加電壓1分鐘后進行測量 INSULATION RESISTANCE BETWEEN CONTACT AND OPERATIONAL INSULATION: A d.c. voltage of approximately 500V is applied between the open contacts of each pole of a switch and between the different poles of which all the parts is connected together, the measurement shall be made after the voltage is applied for 1 min.	10MΩ min																	
	加強絕緣： 約500伏的直流電壓施加在導電部件和覆在易接觸的開關外表面的金屬箔及易接觸的金屬部件之間。施加電壓1分鐘后進行測量 REINFORED INSULATION: A d.c. voltage of approximately 500V is applied between all live parts and a metal foil covering the outer accessible surface and accessible metal parts, the measurement shall be made after the voltage is applied for 1 min.	100MΩ min																	
3.1.3 介電強度 DIELECTRIC STRENGTH	觸點間和各極間的介電強度： 處于斷開狀態的開關的兩觸點間和開關的不同極之間，應能承受基本為正弦波形，頻率為50或60赫茲的1500伏電壓1分鐘無擊穿或閃絡現象。 DIELECTRIC STRENGTH BETWEEN CONTACTS AND BETWEEN	No flashover or breakdown shall occur																	

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	DIFFERENT POLES: A voltage of substantially sine wave form, with a frequency of 50Hz or 60Hz and the value of 1500v is applied for 1 min between the open contacts and the different poles. 加強絕緣間的介電強度: 基本為正弦波形的、頻率為50或60赫茲、數值為3000伏的電壓施加在導電部件和覆在開關的易接觸外表面的金屬箔及易接觸的金屬部件之間應無擊穿或閃絡現象發生。 DIELECTRIC STRENGTH BETWEEN REINFORCE INSULATION: A voltage of substantially sine wave form, having a frequency of 50Hz or 60Hz and the value of 3000v is applied for 1 min between all live parts and a metal foil covering the outer accessible surface and accessible metal parts.	無擊穿或閃絡現象 No flashover or breakdown shall occur
3.1.4 開關的發熱 HEATING	開關首先在無電流通過的情況下，作20個操作循環，然後將操作件停留在最不利的“閉合”位置，開關通以電流，其值為電阻性負載最大額定電流的1.06倍，試驗電流至少維持一小時或維持到端子溫度穩定。當每隔5分鐘讀取連續的三個讀數變化不於±2℃，即認為溫度穩定。測得的溫升不應超過45K。 First of all, the switches are subjected to 20 operating cycles with no current flowing. Then the actuating member is left in the most unfavourable "ON" position and the switches are loaded with a current of 1.06 times the maximum rated current for resistive load. The current is maintained at least for one hour or until a constant temperature at the terminal is attained. A temperature is considered to be constant when three successive readings obtained at every 5min of which value indicate no change greater than ±2℃.	端子溫升不超過45K; 操作件溫度不超過85℃; 金屬操作件溫度不超過60℃。 The temperature rise at the terminals shall not exceed 45K. The temperature of actuating members shall not exceed 85℃; Metal actuating members shall not exceed 60℃.
3.2.1 開關材料的阻燃性: 灼熱絲試驗 RESISTANCE TO FIRE: GLOW WIRE TEST	保持、支持帶電導體在其相對位置的非金屬零件應能承受850℃的灼熱絲試驗，其他零件應能承受650℃的灼熱絲試驗。 For nonmetal parts which are in contact with, maintain or retain the live parts in position should be carried out the glow wire test at the 850℃. The other parts should be carried out the glow wire test at the 650℃.	無火焰產生或灼熱絲離開后火焰30秒類熄滅 No flame or the flame fire out in 30S when glow wire leave away.
3.2.2 開關材料的耐熱性: 球壓試驗 RESISTANCE TO HEAT: BALL PRESSURE TEST	保持、支持帶電導體在其相對位置的非金屬零件應能承受125℃的球壓試驗，其他零件應能承受75℃的球壓試驗。 For nonmetal parts which are in contact with, maintain or retain the live parts in position electrical should be carried out the ball pressure test at the 125℃. The other parts should be carried out the ball pressure test at the 75℃.	壓痕直徑 ≤2mm The diameter of the impession shall not exceed 2 mm.
3.2.3 開關材料的耐漏電起痕特性 RESISTANCE TO TRACKING	在不同極的導電部件之間、導電部件與接地金屬部件之間、導電部件與易接觸的表面之間有特定的爬電路徑的所有非金屬部件應能通過175V的耐漏電起痕指數測試。 All non-metal parts for which a creepage path is specified between live parts of different polarity,	No flashover or breakdown shall occur 無擊穿或閃絡現象

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項目 ITEM	測試條件 TEST CONDITIONS	要求 REQUIREMENT
	between live parts and earthed metal parts and between the live parts and accessible surfaces of a switch shall be carried out the proof tracking test of 175V.	
3.3 機械性能 MECHANICAL PERFORMANCE:		
3.3.1 機械強度 MECHANICAL STRENGTH:	將彈簧沖擊器的釋放能量校準到0.5Nm±0.04Nm,用彈簧沖擊器對可觸及的表面包括驅動元件進行沖擊,對每一個認為薄弱的位置沖擊三次。 The spring-operated impact-test apparatus is calibrated to deliver an energy of 0.5Nm±0.04Nm. Blows are applied to all accessible surfaces, including actuating members by the test apparatus. For all such surfaces three blows are applied to every point that is likely to be weak.	試驗後不應有影響開關安全和使用的損傷。 There shall be no damages to switch safety and usage
	首先對開關的按鈕施加15N的拉力1分鐘試圖拉脫按鈕,然後對所有按鈕施加30N壓力1分鐘。 First a pull of 15N shall be applied for 1 min to try to pull off the actuating member and secondly a push of 30N for 1 min is applied to all actuating member.	
3.3.2 操作性能 OPERATING PERFORMANCE:	用盡可能慢的速度撥動開關的推桿。 To operate the actuating member of a switch as slowly as possible.	開關的動觸點只能停留在“閉合”和“斷開”的位置,當按鈕釋放時,按鈕會自動移動到或停留在動觸點對應的位置。 The moving contacts of a switch can come to rest only in the “on” and “off” position. When the actuating member is released, it shall move automatically or stay in the position corresponding to that of the moving contacts.
3.3.3 插片端子的安裝強度 THE STRENGTH OF TABS:	將80N的軸向壓力和98N的軸向拉力依次無沖擊地作用在開關的插片上。 A axial push of 80N and a axial pull of 98N shall be applied in turn to the tabs of a switch without jerks. .	開關的插片不應出現明顯的位移和損傷。 No significant displacement or damage shall occur.
3.4.1 提高電壓加速測試 INCREASE-VOLTAGE AT ACCELERATED SPEED:	測試電壓 APPLIED VOLTAGE: 1.15倍額定電壓 1.15 times of rated voltage 測試電流 APPLIED CURRENT: 額定電流 Rated current 操作循環數: THE NUMBER OF OPERATING CYCLE: 100 功率因數 POWER FACTOR : 0.95±0.05 環境溫度 AMBIENT TEMPERATURE: 25±10℃ 操作速率 OPERATING RATE: 30次/分鐘 30 operations per minute	1、所有的動作功能正常。 2、通以額定電流,在周圍溫度為25±10℃的條件下進行溫升測試,端子溫升不應超過55K。 3、能够承受3.1.3條要求的75%的介電強度測試。 1.All actions function as normal; 2.The temperature rise test at the terminal carried out under rated current and ambient temperature of 25±10℃. the temperature rise at

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	操作速度 OPERATING SPEED: 大約80mm/s的線性速度 Approximately 80mm/s for lineal actions	the terminal does not exceed 55K.	
3.4.2慢速測試 SLOW SPEED TEST:	測試電壓 APPLIED VOLTAGE: 額定電壓 rated voltage 測試電流 APPLIED CURRENT: 額定電流 Rate current 操作循環數: THE NUMBER OF OPRATING CYCLE: 100 功率因數 POWER FACTOR : 0.95±0.05 環境溫度 AMBIENT TEMPERATURE: 25±10℃ 操作速率 OPERATING RATE: 30次/分鐘 30 operations per minute 操作速度 OPERATING SPEED: 大約20mm/s的線性速度 Approximately 20mm/s for lineal actions	3. Can subject to the dielectric strength test which the test voltage shall be 75% the corresponding test voltage specified in clause 3.1.3.	
3.4.3加速測試 ACCELERATED SPEED TEST:	測試電壓 APPLIED VOLTAGE: 額定電壓 rated voltage 測試電流 APPLIED CURRENT: 額定電流 Rate current 操作循環數: THE NUMBER OF OPRATING CYCLE: 9800 功率因數 POWER FACTOR : 0.95±0.05 環境溫度 AMBIENT TEMPERATURE: 25±10℃ 操作速率 THE RATE OF OPERATIONS: 30次/分鐘 30 operations per minute 操作速度 OPERATING SPEED: 大約80mm/s的線性速度 Approximately 80mm/s for lineal actions		
3.5 焊接性能 SOLDERING PERFORMANCE:			
3.5.1可焊性試驗 SOLDERING TEST:	端子頂部被浸入焊錫池中2mm深，溫度230±5℃，時間3秒。 The tip of the terminal shall be dipped 2mm in the bath at temperature 230±5℃ for 3 sec.	浸入的部分75%以上表面將被錫覆蓋。 A new uniform coating of solder shall cover a minimum of 75% of the surface being immersed.	
3.5.2耐焊接熱試驗 RESISTANCE TO SOLDERING HEAT TEST:	焊錫爐的方法: 焊錫爐的溫度控制在260℃±5℃，鍋爐焊接的時間3±0.5秒，基板的厚度為1.6mm。 SOLDER BATH MOTHOD: Solder temperature 260℃±5℃; Immersion time 3±0.5sec.	本體無變形，能滿足機械、電氣性能要求。 Without distortion of case or excessive looseness of terminals, Electrial and mechanical characteristics	

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	the thickness of PCB 1.6mm. 手工焊接方法: 手工焊接的時候, 溫度控制在350℃±5℃, 焊接的時間3±0.5秒, 但不能在端子上施加異常力。 SOLDERING IRON MOTHOD: Control temperature 260℃±5℃; Application time 3±0.5sec; However excessive pressure shall not be applied to the terminal.	shall be satisfied.	
4、開關的材料 MATERIALS OF THE SWITCH			
零件名稱 PARTS	材料名稱 MATERIAL	供應商 MANUFACTURER	
基 座 BASE	酚醛樹脂 PHENOLIC RESIN	浙江長雄 ZHEJIANG CHANGXIONG	
推 桿 HANDSPIKE	聚甲醛 POM	张家港 ZHANGJIAGANG	
鐵 架 IRON PLANK	剛帶 STAINLESS STEEL	安徽蕪湖 ANHUI WUHU	
彈 簧 SPRING	φ0.5 碳素彈簧鋼絲 φ0.5 STEEL WIRE	金耐彈簧廠 JINNAI SPRING FACTORY	
定位鉤 ORIENTATION	φ0.7鋼絲 φ0.7 WIRE	金耐彈簧廠 JINNAI SPRING FACTORY	
接觸橋 BRIDGE CONTACT	磷青銅Qsn6.5-0.1 Phosphorbronze	上海銅業 SHANGHAI TONGYE	
靜觸片 CONTACT TAB	黃銅帶 H62 BRASS H62	寧波興業 NINGBO XINGYE	
觸 點 RIVET	AgNi10/Cu	溫州銀泰 WENZHOU YINGTAI	
橋 板 BRIDGE BOARD	錳鋼帶 Manganese steel	豪龍貿易 HAOLONG TRADING	
中 端 TERMTNAL	黃銅帶 H62 BRASS H62	寧波興業 NINGBO XINGYE	

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