

RES2 交流电源电涌保护器 (SPD II 级)

RES2 电涌保护器 SPD 使用说明书

RES2-20 系列、RES2-40 系列、RES2-80 系列



⚠ 注意

- 使用产品前，请認真仔細閱讀本說明書！
- 安裝、調試和檢查須由專業的電氣工程人員進行。
- 必須遵守相關的國家和地方法規和標準。
- 安裝使用前務必檢查和確認產品無外部破損，若有缺陷，不得使用！
- 請確認產品應用系統最大工作電壓不超過產品最大允許值 U_c 。
- 請依照本說明書中推薦的接線銅纜要求，並可靠接地。
- 請採用本說明書中推薦的最大後備保護熔絲規格。
- 產品狀態窗口顏色由綠色變為紅色，請及時更換相同規格產品。
- 若底座損壞，須更換整個產品。

本公司對產品保留修改及說明書的變更權，如有更新，再另行通知。

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■ 概述

RES2 系列交流电源 SPD 符合 IEC、GB 等標準測試規範，SPD II 級，2 類，能在電湧產生瞬間，將被保護線路接入等電位系統中，將電壓限制在一定水平，起到保護用戶用電設備的作用。

■ 命名方式

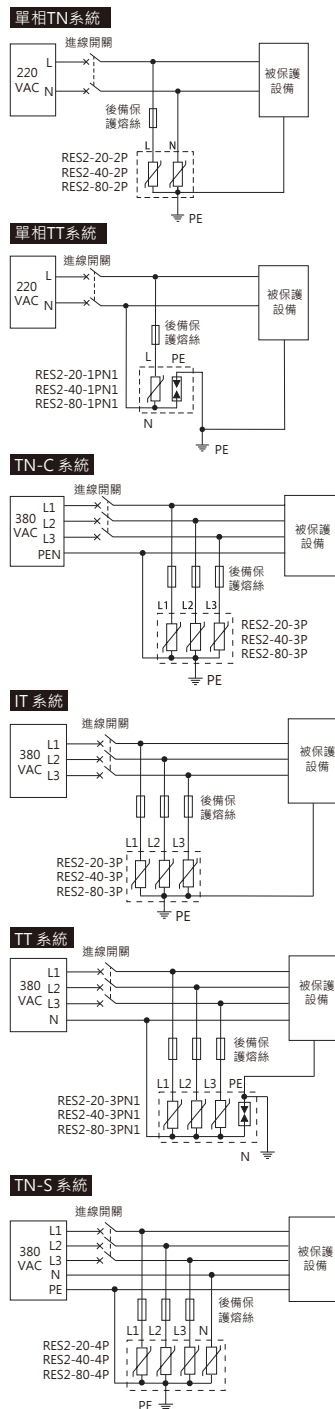


■ 主要技術參數

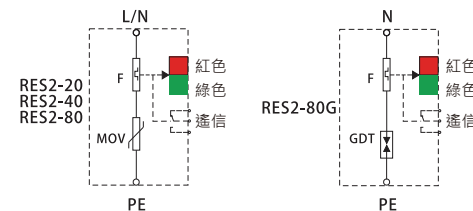
技術參數	產品型號	RES2-20	RES2-40	RES2-80	RES2-80G
額定工作電壓 U_n		220V AC	220V AC	220V AC	-
最大工作電壓 U_c		320V AC	385V AC	385V AC	255V AC
標稱放電電流 $I_n(8/20\mu s)$		10kA	20kA	40kA	40kA
最大放電電流 $I_{max}(8/20\mu s)$		20kA	40kA	80kA	80kA
電壓保護水平 U_p		1.2kV	1.7kV	2.0kV	1.2kV
響應時間		< 25ns	< 25ns	< 25ns	< 100ns
漏電流		< 20 μA	< 20 μA	< 20 μA	-
推薦後備保護熔絲		40A	80A	125A	-
鏈接導線截面積 L/N		$\geq 2.5mm^2$	$\geq 4mm^2$	$\geq 4mm^2$	$\geq 4mm^2$
鏈接導線截面積 P/E		$\geq 4mm^2$	$\geq 6mm^2$	$\geq 6mm^2$	$\geq 6mm^2$

狀態指示：綠色：正常；紅色：失效
工作溫度：-40°C ~ +70°C
相對濕度：5% ~ 95%
外殼防護等級 (IEC60529)：IP 20
外殼材料/阻燃等級 (UL94)：PA66/V0
安裝：DIN35mm 標準導軌
測試標準：GB/T18802.1；IEC61643-11
保護類別：用於電源的电涌保護器 SPD II 級，2 類
性能測試：上海防雷產品測試中心
遙信報警輸出：250VAC/0.5A；24VDC/0.5A

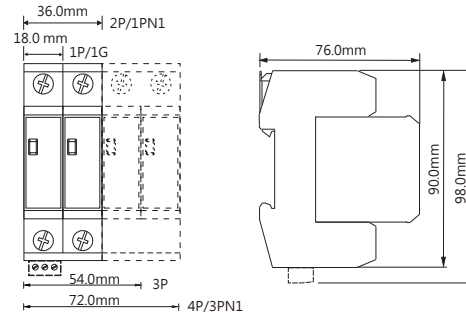
■ 典型應用



■ 電路原理圖



■ 外形尺寸



■ 維護

- 1、檢查 SPD 的狀態指示窗口，若非全綠，則需更換 SPD 或者失效的电涌防護模塊。
- 2、遙信端子可連接截面積 $\leq 1.5mm^2$ 的多股或單股銅導線，剝線長度為 6~7mm，由螺釘鎖緊緊固力矩 0.2Nm。
- 3、上電前應檢查線纜與接線端子之間的連接是否牢固，接地是否可靠。
- 4、產品出廠前經過嚴格檢驗和質量控制，如發現異常情況，請及時與本公司聯繫。
- 5、產品發貨之日起五年內，正常使用過程中出現產品質量問題均由本公司免費維護。



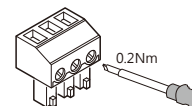
綠色：正常



紅色：失效



遙信報警輸出



0.14 mm² - 1.5mm²



RES2 Surge Protective Device for AC Power

RES2 Surge Protective Device User Manual

RES2-20Series、RES2-40Series、RES2-80Series



Caution

- Read this manual carefully before installation !
- Installation, adjustment and inspection must be carried out by professional electrical engineers !
- Must comply with relevant national and local regulations and standards.
- Be sure to check and confirm that the product has no external damage before installation. Do not use if there is external damage.
- Please confirm that the maximum operating voltage of the product application system does not exceed the maximum allowable value of the product, U_c .
- Please follow the recommended copper wire requirements in this manual, and reliable grounding.
- Please follow the recommended maximum backup fuse spec.
- Please replace the product with the same specifications in time as the color of the product status window changes from green to red.
- Please replace the whole product as the socket is damaged.

The company reserves the right to modify the product and change the specification. If there is any update, it will be notified separately.

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General

RES2 series AC power SPDs are designed according to the IEC and GB standards. It enable the connection between the power supply system and an equipotential network instantaneously when the surge occurs and limits the residual voltage to a certain level to protect the devices.

Nomenclature

RES2-XX-XXXXX-3	
Blank	means one naught wire
2	means 2 naught wires
3	means 3 naught wires
none	: w/o remote signal
F	: with remote signal
1P	: Single phase(MOV)
1G	: Single phase(GDT)
2P	: Single phase TN
1PN1	: Single Phase TT(with GDT)
3P	: 3phase 4wire, TN-C/IT
3PN1	: 3phase 4 wire, TT(with GDT)
4P	: 3phase 5 wire, TN-S
20	: Max. discharge current, I_{max} : 20kA
40	: Max. discharge current, I_{max} : 40kA
80	: Max. discharge current, I_{max} : 80kA
	Series number

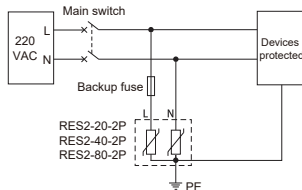
Main technical parameters

Parameter \ Model	RES2-20	RES2-40	RES2-80	RES2-80G
Nominal operating voltage U_n	220V AC	220V AC	220V AC	-
Max. operating voltage U_c	320V AC	385V AC	385V AC	255V AC
Nominal discharge cur. $I_n(8/20us)$	10kA	20kA	40kA	40kA
Max. discharge cur. $I_n(8/20us)$	20kA	40kA	80kA	80kA
Protection level U_p	1.2kV	1.7kV	2.0kV	1.2kV
Response time	< 25ns	< 25ns	< 25ns	< 100ns
Leakage current	< 20 μ A	< 20 μ A	< 20 μ A	-
Max. backup fuse	40A	80A	125A	-
Connection wire section area L/N	$\geq 2.5mm^2$	$\geq 4mm^2$	$\geq 4mm^2$	$\geq 4mm^2$
Connection wire section area PE	$\geq 4mm^2$	$\geq 6mm^2$	$\geq 6mm^2$	$\geq 6mm^2$

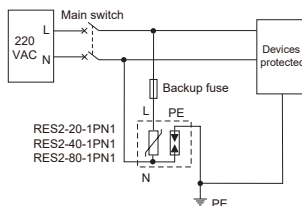
Status indicator : Green : OK ; Red : Failed
Working temperature : $-40^{\circ}C \sim +70^{\circ}C$
Relative humidity : 5%~95%
Housing protection level (IEC60529) : IP 20
Housing Material/flame-retarded level (UL94) : PA66/V0
Installation : Standard 35 mm DIN rail
Test Standards : GB/T18802.1 ; IEC61643-11
Protection level : Surge Protection level , class II for Power
Certificate Authority : Shanghai lighting protection center
Remote signal output : 250VAC/0.5A ; 24VDC/0.5A

Typical applications

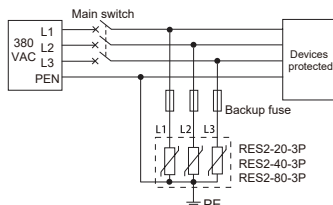
Single phase TN system



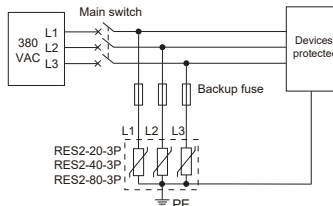
Single phase TT system



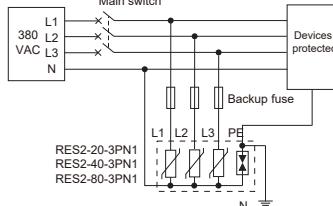
TN-C system



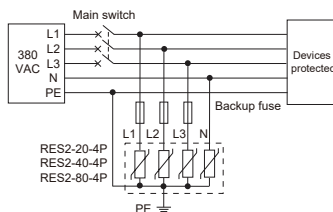
IT system



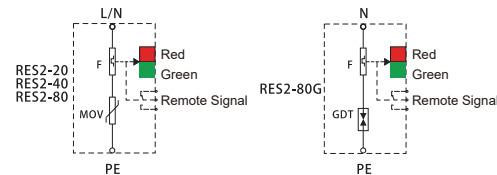
TT system



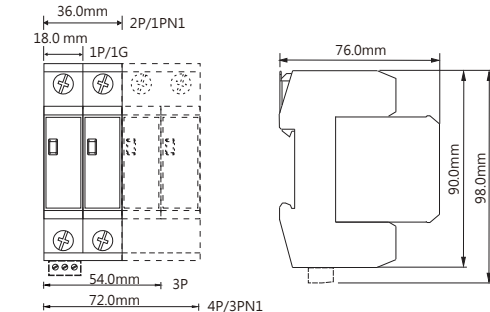
TN-S system



Schematic diagram

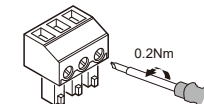


Dimensions



Maintenance

1. Check the status indicator and replace the failed module or whole product if the status indicator is not all green.
2. Connect the terminal blocks of remote signal with solid or stranded conductor. The conductor section area is small than 1.5mm² and strip length is between 6 and 7mm. Tightened by screw with 0.2 Nm torque.
3. Before Power on, Make sure the connection tightened firmly between conductors and terminal blocks and grounding is reliable.
4. The product undergoes rigorous inspection and quality control before leaving the factory. If abnormal conditions are found, please contact us.
5. 5 years guarantee from the date of delivery, free replacement of malfunction products.



0.14 mm² - 1.5mm²

