

RES2 Surge Protective Device for DC Power

RES2 Surge Protective Device User Manual

RES2-Series



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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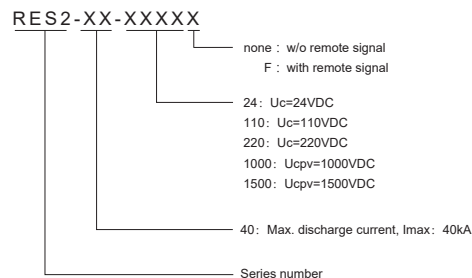
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General

RES2 series DC power SPDs are designed according to the IEC and GB standards. Suitable for low voltage power supply DC power supply system; 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



Product model number

Model number	Model number
RES2-40-24	RES2-40-24F
RES2-40-110	RES2-40-110F
RES2-40-220	RES2-40-220F
RES2-40-1000	RES2-40-1000F
RES2-40-1500	RES2-40-1500F

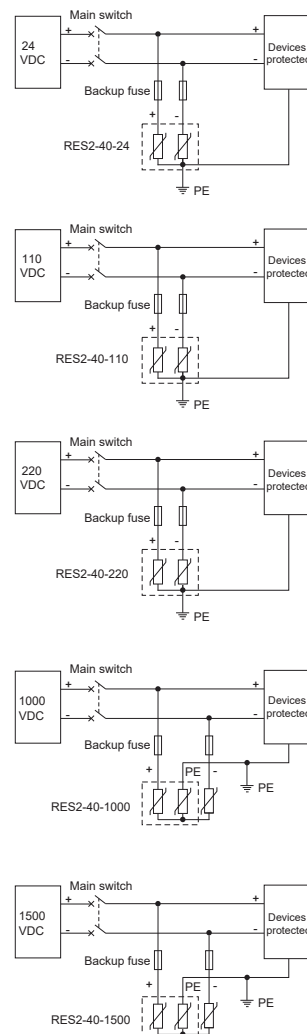
Note, "F" with remote signal function

Main technical parameters

Parameter	Model	RES2-40-24	RES2-40-110	RES2-40-220	RES2-40-1000	RES2-40-1500
Nominal operating voltage U_n		24V DC	110V DC	220V DC	-	-
Max. operating voltage U_c		90V DC 60V AC	180V DC 120V AC	320V DC 220V AC	-	-
Max. operating voltage U_{cpv}		-	-	-	1000V DC	1500V DC
Test Standards		GB/T18802.1 ; IEC61643-11			GB/T18802.31	

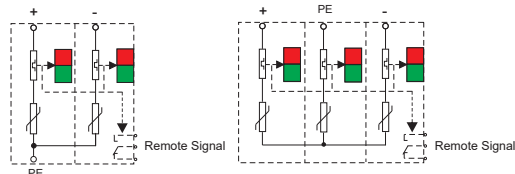
Nominal discharge cur. $I_n(8/20us)$: 20kA
 Max. discharge cur. $I_n(8/20us)$: 40kA
 Protection level Up: 0.8kV
 Response time: <25ns
 Leakage current: <20 μ A
 Max. backup fuse: 80A
 Connection wire section area L/N: $\geq 4mm^2$
 Connection wire section area PE: $\geq 6mm^2$
 Screw torque: 2~3Nm
 Status indicator : Green : OK ; Red : Failed
 Working temperature : -40°C~+70°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
 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



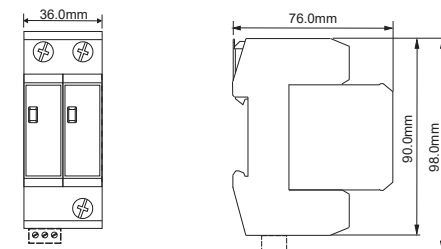
Schematic diagram

RES2-40-24 RES2-40-24F RES2-40-110 RES2-40-110F RES2-40-220 RES2-40-220F RES2-40-1000 RES2-40-1000F RES2-40-1500 RES2-40-1500F

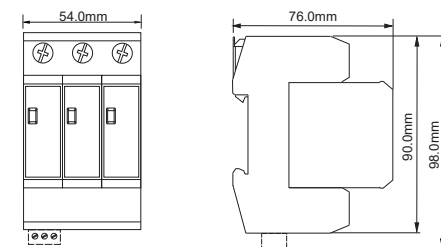


Dimensions

RES2-40-24 RES2-40-24F
 RES2-40-110 RES2-40-110F
 RES2-40-220 RES2-40-220F



RES2-40-1000 RES2-40-1000F
 RES2-40-1500 RES2-40-1500F



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.



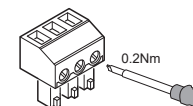
Green-OK



Red-failed



Remote Signal Output



0.2Nm

