

# Surge Protective Device

T2-20 Range  
T2-40 Range  
T2-80 Range



Before using the product, please read this manual carefully and keep it well.

## Caution

- Please check whether the product type on the package accords to the ordering contract.
- Read this manual carefully before installation. If there is any questions ,contact us early enough.
- Disassembling or repairing SPDs are not allowed or it will cause malfunction.

T2 range AC power supply SPDs are designed according to the IEC and GB standards. It enables the connection between the power supply system and an equipotential network instantaneously when the surge occurs and limit the residual voltage to a certain level to protect the devices protected.

## Order Number

Type	Order Number	Type	Order Number
T2-20/2P	7044946	T2-20/2PF	7046947
T2-20/3P	7060683	T2-20/3PF	7095809
T2-20/1P+1	7017825	T2-20/1P+1F	7044393
T2-20/3P+1	7093873	T2-20/3P+1F	7061114
T2-20/4P	7065597	T2-20/4PF	7030095
T2-40/2P	7067699	T2-40/2PF	7062709
T2-40/3P	7079704	T2-40/3PF	7046181
T2-40/1P+1	7032273	T2-40/1P+1F	7070280
T2-40/3P+1	7085025	T2-40/3P+1F	7081984
T2-40/4P	7085466	T2-40/4PF	7018432
T2-80/2P	7030066	T2-80/2PF	7066780
T2-80/3P	7025082	T2-80/3PF	7038693
T2-80/1P+1	7015677	T2-80/1P+1F	7042357
T2-80/3P+1	7055729	T2-80/3P+1F	7058261
T2-80/4P	7018734	T2-80/4PF	7088870

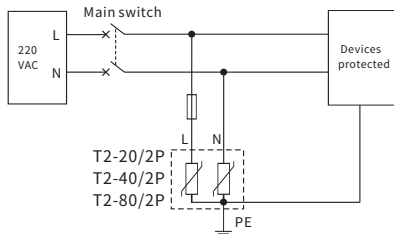
Note: " F " for alarm output

Parameter \ Type	T2-20	T2-40	T2-80	T2-80G
Nominal operating voltage Un	220V AC	220V AC	220V AC	255V AC
Max. operating voltage Uc	320V AC	385V AC	385V AC	255V AC
Nominal discharge current In(8/20)	10kA	20kA	40kA	40kA
Max. discharge current Imax(8/20)	20kA	40kA	80kA	80kA
Protection level Up	1.2kV	1.7kV	2.0kV	1.2kV
Response time	<25ns	<25ns	<25ns	<100ns
Leakage current	<20μA	<20μA	<20μA	-
Max. backup fuse	40A	80A	125A	-
Connection cable sectional area L/N	≥2.5mm <sup>2</sup>	≥4mm <sup>2</sup>	≥4mm <sup>2</sup>	≥4mm <sup>2</sup>
Connection cable sectional area PE	≥4mm <sup>2</sup>	≥6mm <sup>2</sup>	≥6mm <sup>2</sup>	≥6mm <sup>2</sup>

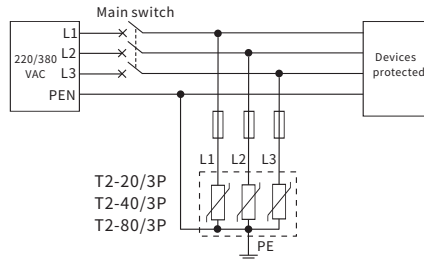
Status indicator: Green-OK; Red-failed  
 Working temperature: -40°C-70°C  
 Relative humidity: 5%-95%  
 Housing protection level(IEC60529): IP 20  
 Housing material flame-retarded level(U194): PA66/V0  
 Installation: Standard 35mm DIN rail  
 Testing standards: GB/T 18802.1/IEC 61643-11  
 Performance test: Shanghai Lightning Protection Center  
 Alarm output: 250VAC/0.5A; 24VDC/0.5A

## Typical applications

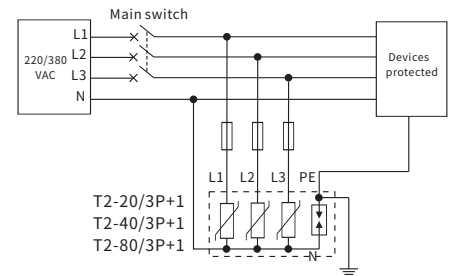
### Single phase TN



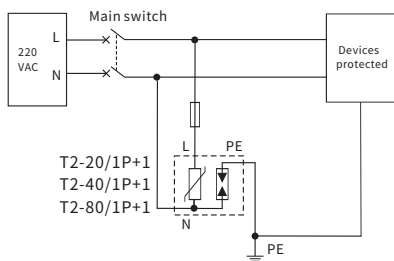
### TN-C systems



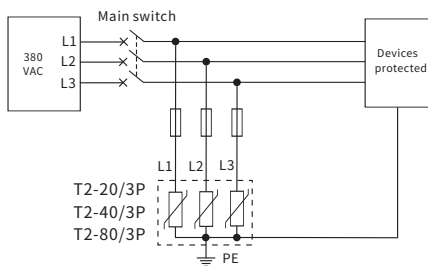
### TT systems



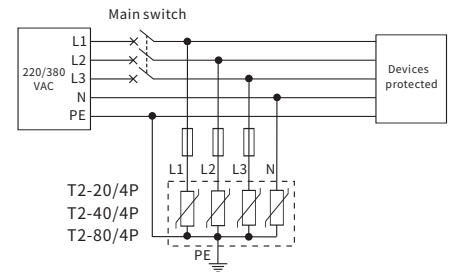
### Single phase TT



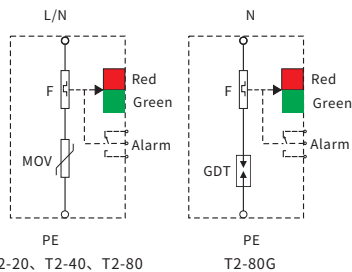
### IT systems



### TN-S systems



## Schematic diagram

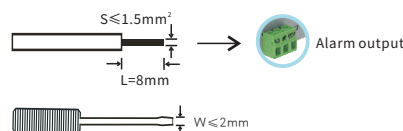
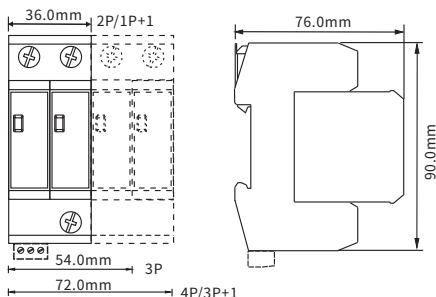


## Maintenance

1. Check the status indicator. If the indicator is red, replace the SPD or the failed module.
2. Multi strand cables with a maximum cross sectional area of 1.5mm<sup>2</sup> or single strand cable can be used, and the stripping length of cables should be 8mm, which will be tightened by the screws.

3. Check if the connections are correct and tight before powering on SPDs.
4. SPDs' quality are well controlled and strictly inspected before delivery. If non-functional ones are found during operation, please contact us early enough.
5. Within 5 years of delivery, any problems occurred during normal operations can get treatments free.

## Dimensions



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