

General

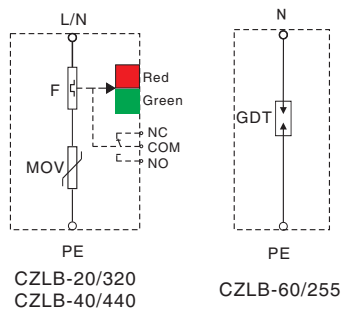
CZLB series AC power supply SPDs are designed according to the IEC and GB standards. It enables the connection between the power supply system and an equipotential network instantaneously when the surge occurs and limit the residual voltage to a certain level to protect the devices protected.

Main technical parameters

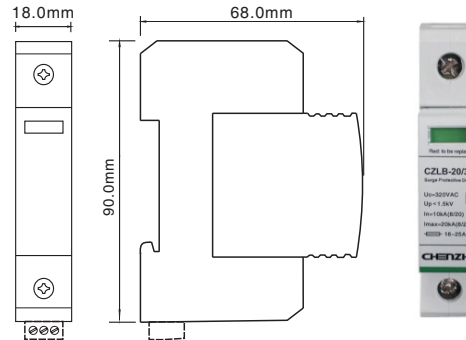
Parameter	CZLB-20/320	CZLB-40/440	CZLB-60/255
Nominal operating voltage U_n	220V AC	220V AC	255V AC
Max. operating voltage U_c	320V AC	440V AC	255V AC
Nominal discharge current $I_n(8/20\mu s)$	10kA	20kA	40kA
Max. discharge current $I_{max}(8/20\mu s)$	20kA	40kA	60kA
Protection level U_p	<1.5kV	<2.2kV	<1.2kV
Response time	<25ns	<25ns	<100ns
Leakage current	<10uA	<10uA	-
Status indication	Green: OK Red: Failed	Green: OK Red: Failed	-
Over current protection	16-25A	25-40A	-
Connection cable sectional area L/N	$\geq 2.5mm^2$	$\geq 4mm^2$	$\geq 4mm^2$
Connection cable sectional area PE	$\geq 4mm^2$	$\geq 6mm^2$	$\geq 6mm^2$

Working temperature: -40°C-70°C
 Relative humidity: 10%-90%
 Housing protection level(IEC60529): IP 20
 Housing material flame-retarded level(UI94): PA66/V0
 Installation: Standard 35mm DIN rail
 Testing standards: GB 18802.1/IEC 61643-1
 Performance test: Shanghai Lighting Protection Center
 Remote I/O output: Specified in orders

Schematic diagram



Dimension(singal module)

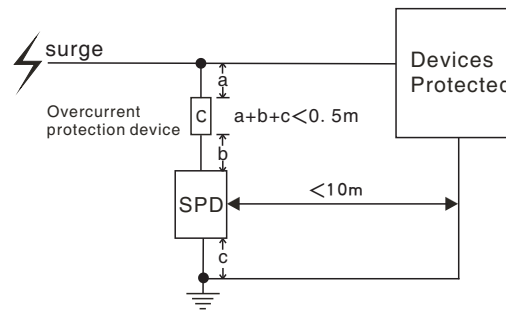


Installation

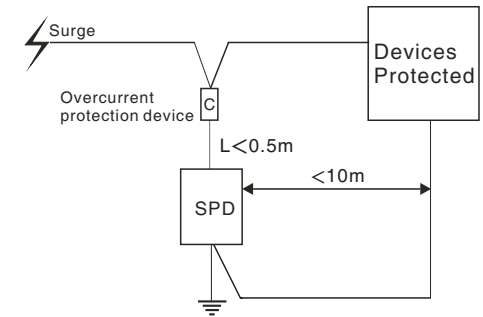
In case of the main circuit broken because of a failed SPD, a protection device such as air switch or fuse should be installed before the SPDs. Protection devices with a suitable nominal current should be selected according to the Parameter table. Corresponding cross sectional area of the cable for L/N and PE connection should also be selected according to the Parameter table.

Remote I/O output is used to detect if SPDs failed or not remotely. Connect "COM" and "NC" for *normally closed* output while connect "COM" and "NO" for *normally open* output. Cross sectional area of the connected cable should be less than 1.5mm².

When install SPDs, the connection cable should be as short as possible. As the diagrams shown below, $L(L=a+b+c$ in normal connection) should be less than 0.5 meters. Cable between SPD and the protected device should be less than 10m. The housing of the protected device should be grounded via SPD terminals.



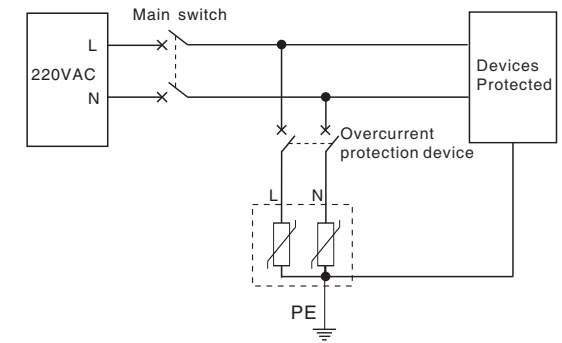
Normal connection



V connection

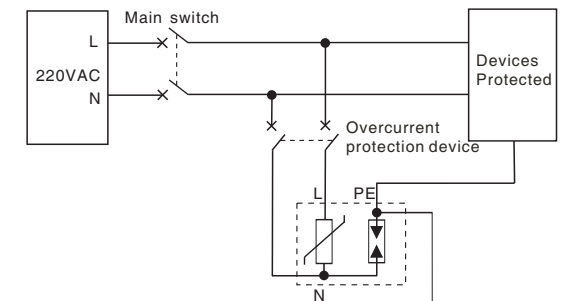
Typical applications

Single phase



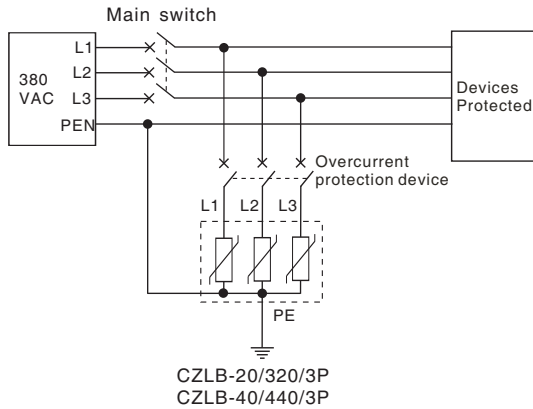
CZLB-20/320/2P
CZLB-40/440/2P

Single phase(TT)

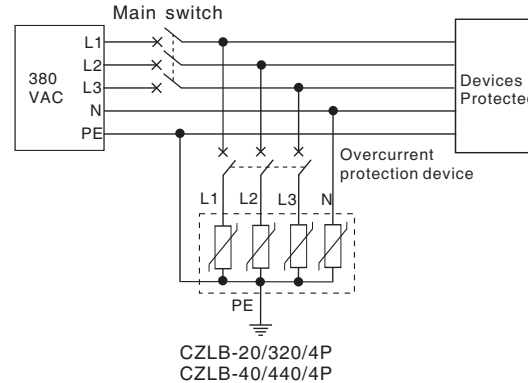


CZLB-20/320/1P+1
CZLB-40/440/1P+1

TN-C system

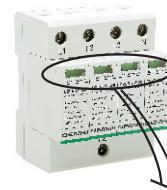


TN-S system



Maintenance

1. Check the status indicator. If the indicator is red, replace the SPD or the failed module. The module can be replaced easily.



Status indicator: Green-OK;
Red-failed.



Failed modules can be replaced easily.

2. Check if the connections are correct and tight before powering on SPDs.

3. SPDs' quality are well controlled and strictly inspected before delivery. If non-functional ones are found during operation, please contact us early enough.

4. Within 5 years of delivery, any problems occurred during normal operations can get treatments free.

SHANGHAI CHENZHU INSTRUMENT CO.,LTD.



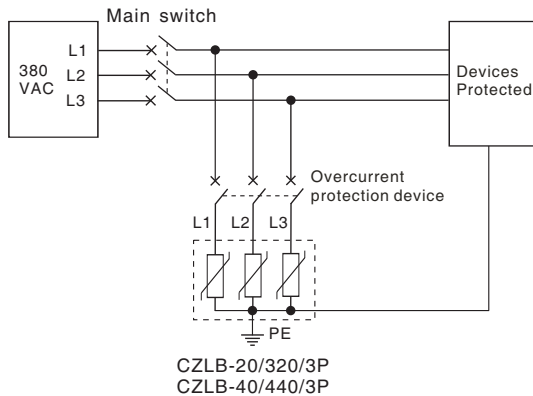
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Surge Protective Device

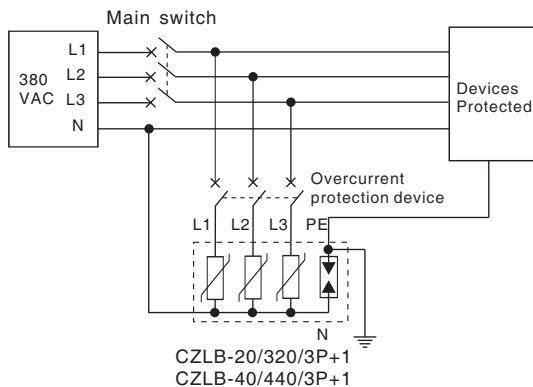
CZLB-20/320 Series
CZLB-40/440 Series



IT system



TT system



Caution

- Please check if SPDs' type and specification on the packages and the labels are consistent with the contract.
- Read this instruction carefully before using SPDs. Contact us if there is any questions.
- In case of damage cause by electrostatic, friction should be avoid.
- In case of any failure, disassembling SPDs is prohibited.