

General

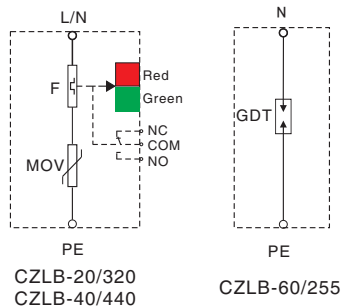
CZLB series AC power supply SPDs are designed according to the IEC and GB standards. It enables the connection between the power supply system and an equipotential network instantaneously when the surge occurs and limit the residual voltage to a certain level to protect the devices protected.

Main technical parameters

Type	CZLB-20/320	CZLB-40/440	CZLB-60/255
Parameter			
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	30kA
Max. discharge current $I_{max}(8/20\mu s)$	20kA	40kA	60kA
Protection level Up	<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	$\geq 2.5\text{mm}^2$	$\geq 4\text{mm}^2$	$\geq 4\text{mm}^2$
Connection cable sectional area PE	$\geq 4\text{mm}^2$	$\geq 6\text{mm}^2$	$\geq 6\text{mm}^2$

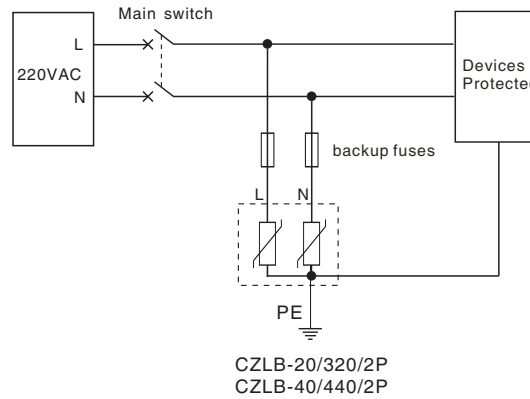
Working temperature: -40°C-70°C
 Relative humidity: 10%-90%
 Housing protection level(IEC60529): IP 20
 Housing material flame-retarded level(UI94): PA66/V0
 Installation: Standard 35mm DIN rail
 Testing standards: GB 18802.1/IEC 61643-1
 Performance test: Shanghai Lightning Protection Center
 Remote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

Schematic diagram

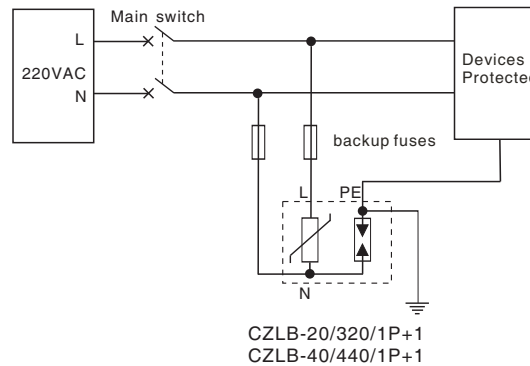


Typical applications

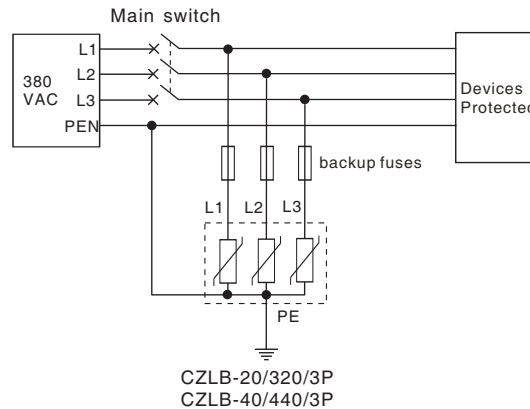
Single phase



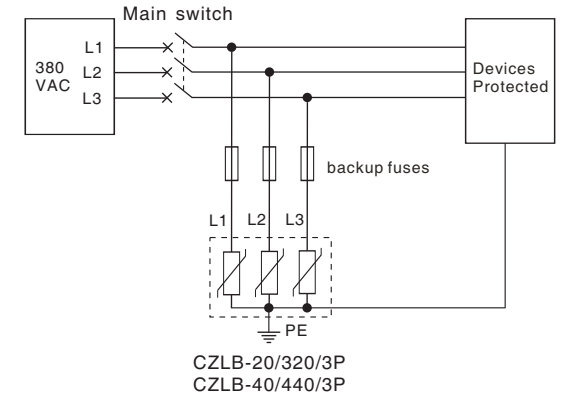
Single phase(TT)



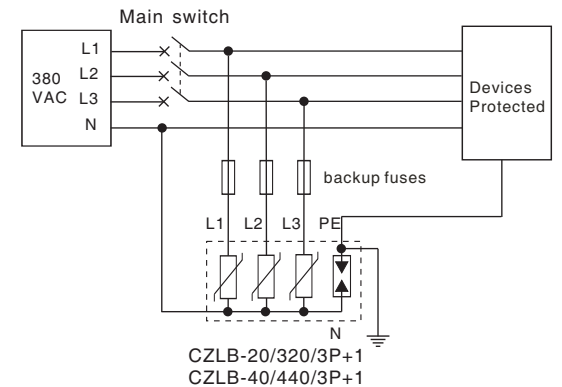
TN-C system



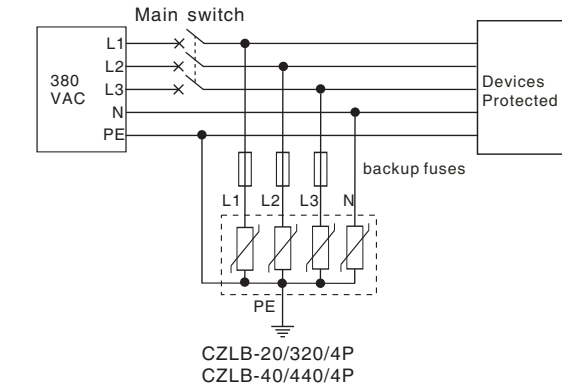
IT system



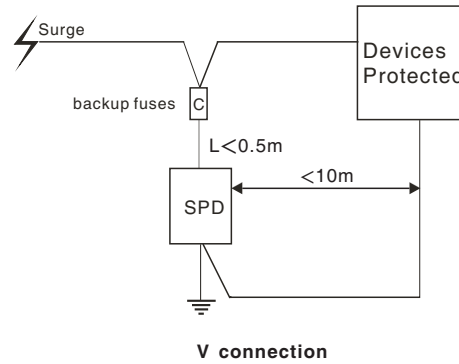
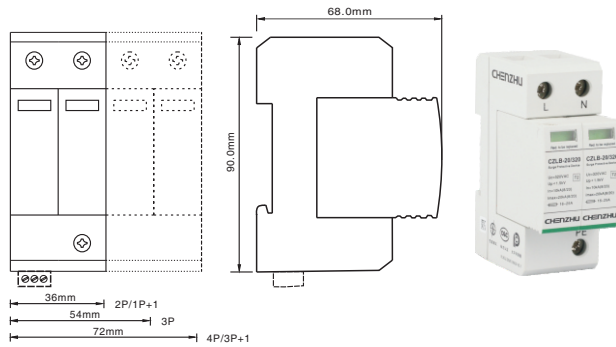
TT system



TN-S system



■ Dimension(single module)



Surge Protective Device

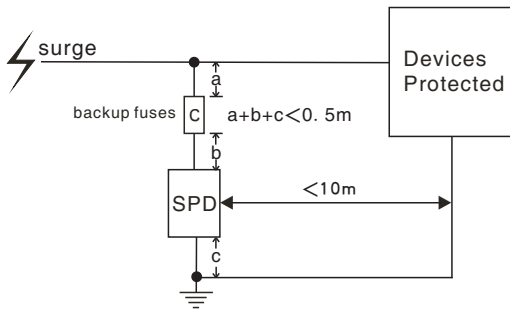
CZLB-20/320 Series
CZLB-40/440 Series

■ Installation

In case of the main circuit broken because of a failed SPD, a protection device such as 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.

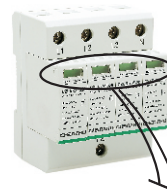
When install SPDs, the connection cable should be as short as possible. As the diagrams shown below, L(L=a+b+c in normal connection) should be less than 0.5 meters. Cable between SPD and the protected device should be less than 10m. The housing of the protected device should be grounded via SPD terminals.



Normal connection

■ 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.

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

⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or use. If there is something unclear, you can dial our technic support hotline;
- Prevent friction, avoid electrostatic;
- Users are not allowed to dismantle or repair the SPD otherwise it will induce malfunction.