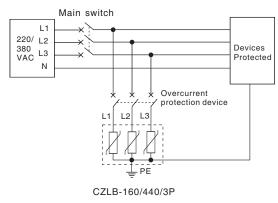
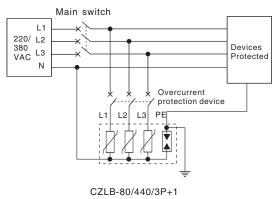
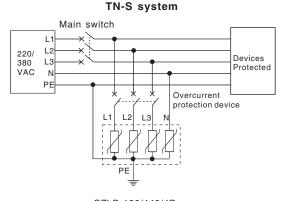


IT system



TT system





CZLB-160/440/4P

Repalcement

Check the status indicator. If the indicator is red, it need to be replaced.



Maintenance

1.SPDs must be reliably grounded.

2.Make sure the connections between cable and terminals are firm and correct.

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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CHENZHU User Manual

Surge Protective Device

CZLB-160/440 Series



\land 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.

General

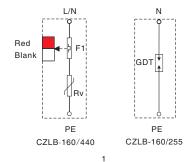
CZLB-160/440 series AC power supply SPDs are designed according to the domestic criterials. It enables the connection between the power supply system and an equipotential network instantaneously when the surge occurs and limit the residual voltage to a certain level to protect the devices protected. Normally, it is used in lighting protection zone 1. For better protection effect, SPDs with different protection levels should be used downstream.

Main technical parameters

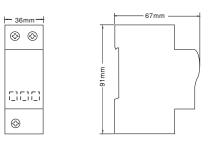
SPD module Parameter	CZLB-160/440	CZLB-160/255
Nominal operating voltage Un	220V AC	255V AC
Max. operating voltage Uc	440V AC	255V AC
Nominal discharge current In(8/20 µ s)	80kA	80kA
Max. discharge current Imax(8/20 µ s)	160kA	160kA
Impulse current limp(10/350μs)	15kA	50kA
Protection level Up (80kA,8/20 µ s)	2.8kV	2.5kV
Response time	<25ns	<100ns
Leakage current	<20 µ A	_
Status indication	Blank: Ok Red: failed	-
Over current protection	200A	-
Connection cable sectional area L/N	≥6mm²	≥6mm ²
Connection cable sectional area PE	≥10mm²	≥10mm²
Operation temperature: Relative humidity:		-40°C-70°C 10%-90%
Housing protection level(IEC60529): Housing material flame-retarded level(UI94):		IP 20 PA66/V0

Installation:	Standard 35mm DIN rail
Testing standards:	GB 18802.1/IEC 61643-1
Performance test:	Shanghai Lighting Protection Center

Schematic diagram



Dimension



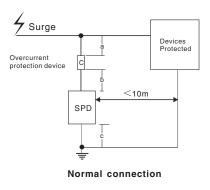
Installation

CZLB-160/440 series SPDs are delivered in single pieces. They should be connected by a bus-bar and then you can choose any piece for ground connection. Otherwise you need to ground all pieces. Loosen all the screws completely before you put the bar in and then tighten the screws except the one you chose for ground connection.



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.

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. According to our tests, protection devices with a nominal current of 100A are recommended. The cross sectional area of the upper (for L/N connection) cable should be no less than 6mm² and the cross sectional area of the cable for grounding should be no less than 10mm².

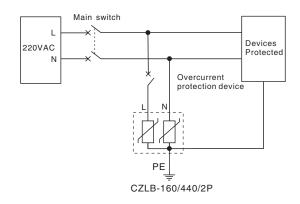


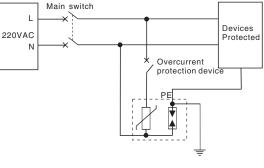
Surge Overcurrent protection device U SPD =

V connection

Typical applications







CZLB-160/440/1P+1