

Plug in/out style surge protective device

Remote signaling interface, could be remote control

Suitable for the wind power generation and PV system



Keyword:1P, 2P, 3P, 4P, (+NPE), Similer OBO, I<sub>max</sub>: 100kA, IEC6164-1

## SUP1-D、C、B Surge protective device

### Application

SUP1(D, C, B) 5 series surge protection device (in short: SPD, alias: surge suppressor, surge arrester) is suitable for TN-S, TN-C-S, TT, IT etc. power supply system of AC 50/60Hz, <380V, installed on the joint of LPZ1 or LPZ2 and LPZ3, it's designed according to IEC61643-1, GB18802.1, it adopts 35mm standard rail, there is a failure release mounted on the module of surge protection device. When the SPD fails in breakdown for over-heat and over-current, the failure release will help electric equipments separate from the power supply system and give the indication signal, green means normal, red means abnormal, it also could be replaced for the module when has operating voltage.



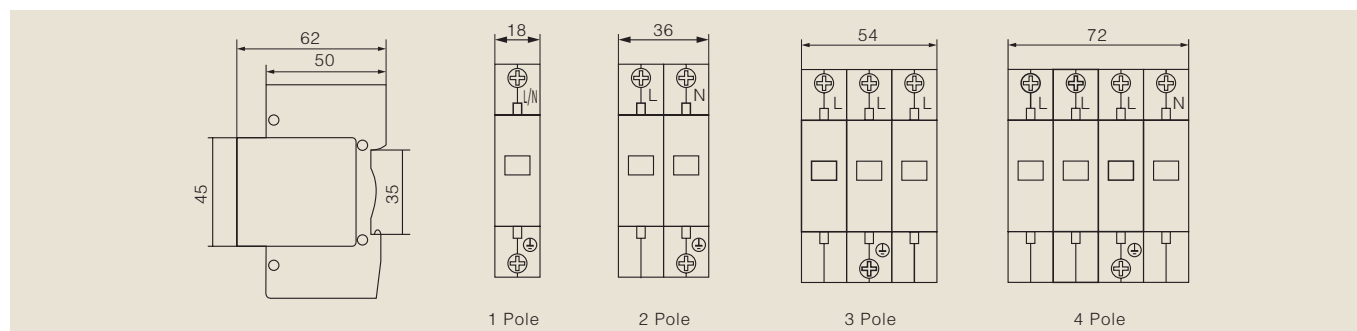
### Product features

- Could be replaced for the module not need power off.;
- Maximum current of endure the lightning stroke 40kA (8/20 μs).
- Time of response <25ns.;
- The color of visible window shows operating status, green means normal, red means abnormal.

### Specifications

Technical Parameters	SUP1 D.C.B					
Protection Level B,C,D Grade	D.C.B					
Rated Operating Voltage Un(V~)	380V /220V					
Maximum Continuous Operating Voltage Uc(V~)	275V	320V	385V	385V	385V	420V
Voltage Protection Level Up(V~)kV	≤ 1.0	≤ 1.2	≤ 1.8	≤ 2.0	≤ 2.2	≤ 2.8
Nominal Discharge Current In(8/20s)kA	5	10	20	30	40	60
Maximum Discharge Current I <sub>max</sub> (8/20s)kA	10	20	40	60	80	100
Response Time (ns)	<25					
Test Standard	IEC61643.1,GB18802.1					
Operating Environment (centigrade)	-40°C ~ +85°C					
Max Connection Line	35mm <sup>2</sup> hard wire/ 35mm <sup>2</sup> strand wire copper line					
Recommended Connection Line	16mm <sup>2</sup> hard wire/ 25mm <sup>2</sup> strand wire copper line					
Installation	Standard Rail 35mm					
Material of Outer Covering	Burning-proof Nylon					

### Dimensions



Keyword: with Fuse, I<sub>max</sub>: 120kA, 1P, 2P, 3P, 3P+NPE, 4P, Similar DEHN guard  
 SUP2 Surge protective device

### Application

SUP2 series surge protective device (hereinafter called SPD) is suitably used in the TT、TN-S、TN-C、IT、TN-C-S and etc power supply system of AC 50/60Hz, rated voltage 380V and below, to protect from direct and indirect lightning impulse and other transient over voltage.SPD meets with GB18802.1/IEC61643-1 standard



Remote signaling interface

### Installation

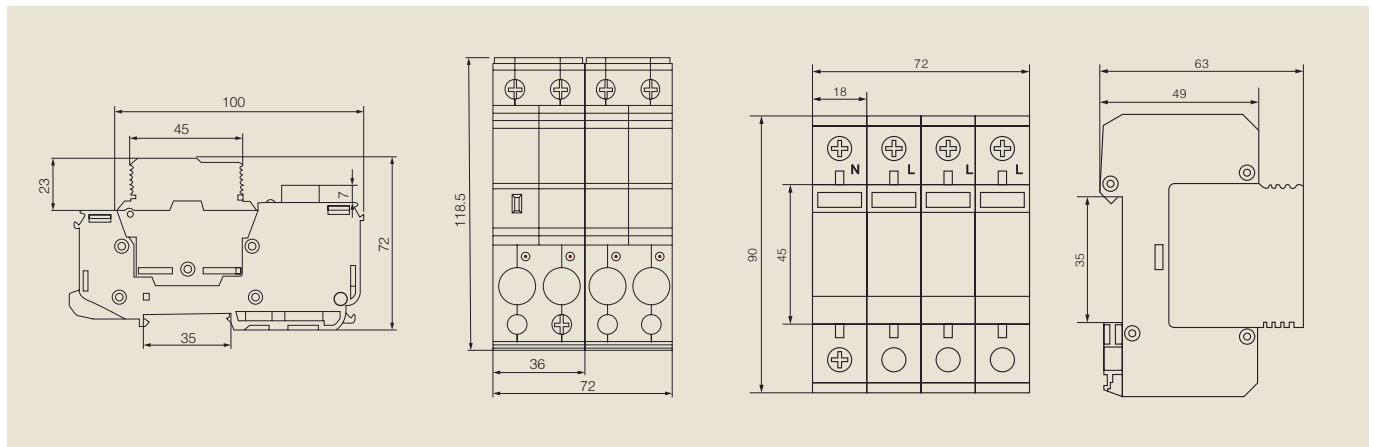
SUP2 is mounted between LPZ1 or LPZ2 zone and LPZ3 zone. The cross sectional area of multi-strand soft copper conductor to be connected: 2.5~ 35 mm<sup>2</sup>. It is used in distribution boxes of living house, computer center, communication equipment, electronic equipment and control equipment or nearestsocket box.

NS6-40 is mounted between LPZ0B or LPZ1 zone and LPZ2 zone. The cross sectional area of multi-strand soft copper conductor to be connected: 2.5~ 35 mm<sup>2</sup>.

### Specifications

Type& Specs	SUP2-15		SUP2-40		SUP2-65		SUP2-80		SUP2-100		SUP2-120	
Max Continuous operating voltage U <sub>c</sub> (VAC )	420	275	420	275	420	275	420	275	420	275	420	275
Protection voltage level U <sub>p</sub> (kV) ≤	1.2	1.0	1.8	1.5	2.5	1.5	2.5	1.8	2.8	2.0	3.0	2.0
Max.discharging current (8/20 μ s) I <sub>max</sub> kA	15		45		65		80		100		120	
Max.discharging current (8/20 μ s)I <sub>max</sub> kA	5		15		30		40		50		60	
Response time (ns)	<25											
Invalidation indicating	Aging invalidation: white: Normal ; red: invalidated											
Protection degree	IP20											
Application	Protection for incoming line											
Remote signal function	Can be ordered											
Remarks	Other max continuous voltage (U <sub>c</sub> ) should be customized											

### Dimensions



Keyword: I<sub>max</sub>: 120kA, 1P, 2P, 3P, 4P. Arch design, Similar CITELE, Standard rail 35mm, Fiber glass reinforced plastic

### SUP3 Surge protective device

#### Application

SUP3 series surge protective device (hereinafter called SPD) is suitably used in the IT, TT, TN-C, TN-S, TN-C-S and etc power supply system of AC 50/60Hz, rated voltage up to 380V, to protect from direct and indirect lightning impulse and other transient over voltage. As per the conditions of IEC61643-1:1998-02 standard, Class I surge protective device, it is category B surge protective device.



#### Operation Elements

- Single pole structure, single pole or three poles combined SPD available.
- SPD has built-in disconnecter, when SPD is invalid due to overheating or breakdown, the disconnecter can automatically separate SPD from the network, meanwhile send an indication signal.
- The visible window show white color in normal service, if to be separated from network, it will show red color. It can adopt Kelvin wiring mode.
- Large current carrying capacity, fast response time, low residual voltage.

#### Specifications

Type& Specs	SUP3-15		SUP3-40		SUP3-60		SUP3-80		SUP3-100		SUP3-120	
Max Continuous operating voltage U <sub>c</sub> (VAC )	420	275	420	275	420	275	420	275	420	275	420	275
Protection voltage level U <sub>p</sub> (kV) ≤	1.0	1.0	1.8	1.5	2.5	1.5	2.5	1.8	2.8	2.0	3.0	2.0
Max. discharging current (8/20 μs) I <sub>max</sub> kA	15		45		60		80		100		120	
Nominal discharging current (8/20 μs) I <sub>n</sub> kA	5		15		30		40		50		60	
Response time (ns)	<25											
Invalidation indicating	Aging invalidation: white: Normal ; red: invalidated											
Protection degree	IP20											
Application	Protection for incoming line											

#### Dimensions

