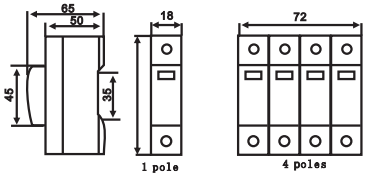
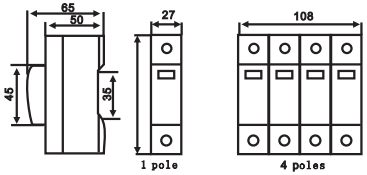
Ⅷ、Installation and exterior dimensions

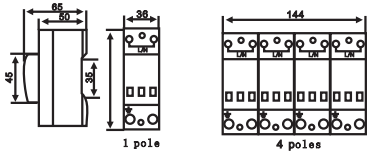
1、Module thickness 18mm



2、Module thickness 27mm



3、Module thickness 36mm



This series Surge Protector with standard top hat installation guide installation regulations

Note the following points when you install:

1、Connecting wires and cords fit through traffic 2.5-16mm2; hardwired 2.5-25mm2.

2、To protect the front end of the series there is a fuse or breaker.

3、To disconnect the power supply during installation.

Ⅸ、Maintain

1、Protection does not need to be adjusted according to the requirements after installation, you can automatically protect the power grid.

2、When the sign is green, indicating normal operation, when the signs into the red for the current module has failed, this time should be replaced.

3、Module checks once every six months, after the failure of timely replacement.

4、Always check the series on the line breaker or fuse is normal.

Ⅹ、Warranty scope of services

1、Is the [ ] factory produced;

2、The reason is that manufacturers of quality problems damage.

ⅩⅠ、The following cases are not covered under warranty:

1、Vandalism

2、Floods and other natural disasters, force majeure and other factors caused the damage;

3、Not in accordance with product instructions and install the correct guidance of damage caused by the use of data;

4、Beyond the technical indicators caused damage to the product application.

Surge Protective Device

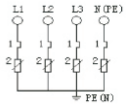
Operating Instructions

Ⅰ、Scope of application

TRS surge protectors (referred to as SPD) applicable to 1000 volts mains voltage, frequency A variety of low-voltage distribution system 50 / 60HZ's. Such as telecommunications, railways, financeSystem, oil, high-rise buildings, homes, offices and other distribution systems. ThesePower units with electrical appliances (such as computers, equipment, household appliances, etc.)against lightning,Transient over-voltage surge overvoltage damage caused. Ensure that equipment and personal safety. IsIdeal overvoltage protection device.

Ⅱ、The main structure and working principle

In the three-phase four-wire systems, three-phase line and a neutral ground between both buttConnected with protection (see below). Under normal circumstances, the protection is in a highimpedance state, whenGrid due to lightning or other causes when over-voltage surge. Protection inthe nanosecond timeWithinthe room quickly turned, over-voltage surge into the earth, thereby protecting the power line withElectrical equipment. When the over-voltage surge protector and disappeared through the protector back againComplex to a high-impedance state. So as not to affect the normal operation of the grid.



Electrical schematics
1.Thermal failure
2.Varistor

Ⅲ、Feature

1、With internal wiring, the overall structure is compact, easy to install ground.
2、High-speed response operation time is less than 25ns
3、Job status display is clear that green (normal), red (fault).
4、Available additional features, such as sound and light alarm (B), the fault remote signal contacts (X).

Ⅳ、SPD normal operating conditions

1、Altitude less than 2000m;
2、Ambient air temperature: the normal range: -5 ℃∽+40 ℃,
Extended range: -40 ℃∽+70 ℃;

3、Relative humidity: at room temperature for 30% -90%;
4、In the vertical gradient of not more than 5 °;
5、No significant shake and shock vibration place;
6、No explosive medium, the medium does not enough to corrode gold Genera and damage the insulation of gas and dust (including conductive dust)

Ⅴ、Model

Modular power surge protector

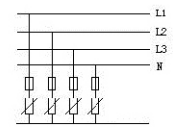
SPD-□/□/□+ □

- Additional features (special requirements)
- Sensitive module combinations (1,2,3,4Number of groups)
- Maximum discharge current(IMAX)
- Product classification(ABCD)
- TRS Modular Surge Protector Series

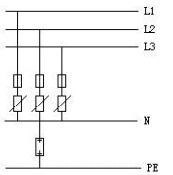
Ⅵ、Technical parameters

Model	The maximum continuous operating voltage Uc	Voltage protection level Up<	Nominal discharge current In(8/20us)kA	Maximum discharge current Imax(8/20us)kA
	420V	2.0kV	20	40
Wf Energy tolerance A(2ms)	200			
Response time t (ns)	<25			
Ie Leakage Current uA	<20			
Installation type	35mm Standards Track			
Housing material	Flame retardant PA66			
Size (mm)	18mm:90X54X60(3P); 90X72X60(4P); 90X36X60(2P) Module thickness: 27mm:90X81X60(3P); 90X108X60(4P); 90X54X60(2P) 36mm:90X108X60(3P); 90X144X60(4P); 90X72X60(2P)			

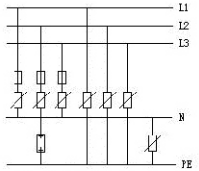
Ⅶ、Wiring Diagram



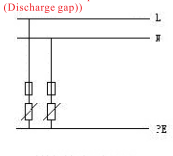
TN-S系统3P+N三相共模保护
(TN-S system 3P + N three-phase common mode protection)



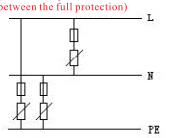
TT-S系统3+1三相共差模保护（放电间隙）
(TT-S system 3 + 1 three-phase differential mode protection (Discharge gap))



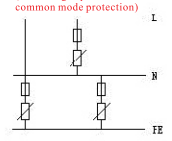
TN-S系统三相共差模全保护
(TN-S three-phase difference between the full protection)



TN-S系统单相共模保护
(TN-S single-phase common mode protection)



TT-S系统3P单相共差模全保护
(TT-S system 3P single-phase total differential mode full protection)



TT-S系统2+1单相共差模全保护
(TT-S system, a total of 2 + 1 single-phase differential mode full protection)

注：□ 表示熔断器或空气开关
(PS: Said the fuse or air breaker)