



## VPH880 Series SPD for AC Power Supply

### Product Specification

## VPH880-12.5/3P+1P (T1+T2) SPD for AC Power Supply Product Specification

### 1.Application

VPH880-12.5/3P+1P (T1+T2) belongs to T1+T2 SPD for three-phase AC power supply with strong grid adaptability as well as safe and reliable properties. It can be widely used in various electronic circumstances and power distribution systems in LPZ0 to LPZ1 zones, and can effectively protect the electrical equipment from being damaged by lightning and transient overvoltage.

### 2.Features

Features of VPH880-12.5/3P+1P (T1+T2) SPD for AC power supply are:

- Proper startup voltage and protect circuit steadily.
- Large discharge current and low let-through voltage.
- Built- in over- temperature & over- current protection, no follow current, high reliability.
- Pluggable module structure, mis-plug prevention, simple installation, convenient maintenance
- In the case of large current shock and strong vibration, the new lock device can guarantee the stability of the plug,not loose
- Equipped with operation indicators and have remote alarm functions.
- Able to work long term under extreme conditions with excellent workmanship.

### 3.Operating Principle

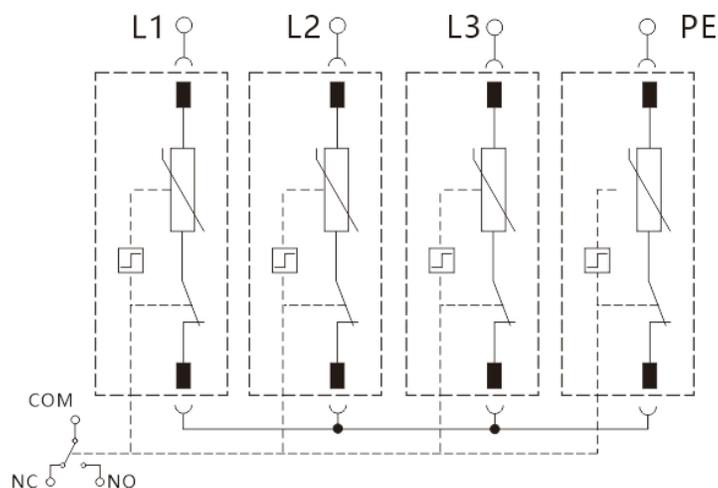


Figure3-1 Operating principle of VPH880-12.5/3P+1P (T1+T2)

## 4. Technical Data

Parameter	Model	VPH880-12.5/3P+1P (T1+T2)
SPD according to EN/IEC 61643-11	T1+T2	
Network	IT-TN	
Application	L-PE	
Maximum continuous operating voltage $U_c$	880V@ 50Hz/ 60Hz	
Impulse current, $I_{imp}$ (10/350 $\mu$ s)	12.5kA	
Nominal discharge current $I_n$ (8/20 $\mu$ s)	20kA	
Maximum discharge current $I_{max}$ (8/20 $\mu$ s)	50kA	
Protection Voltage, $U_p$	$\leq 3.4$ kV	
Internal protective devices	Built- in thermal tripping device	
Maximum overcurrent protection (fuse rating)	250A gL/gG	
Shortcircuit proof at maximum overcurrent protection	25kArms	
Response time	$\leq 25$ ns	
Cross- sectional area of input/ output wire	6mm <sup>2</sup> ~ 35mm <sup>2</sup>	
Bare wire connection length	12.5mm	
Installation wiring torque	3Nm	
Failure indicator	The indication window turns into red when damaged	
Remote signaling	Normally closed remote signal contact (RSC), NC-COM-NO contact	
Performances of remote signal contact	AC: 250V/0.5A; DC: 250V/0.1A, 125V/0.2A, 75V/0.5A	
Cross- sectional area of the signaling wire	Maximum 1.5 mm <sup>2</sup>	
Installation mode	Using 35mm standard DIN rail	
Housing material	PBT UL94-V0	
Enclosure protection degree	IP20	
Operation temperature	-40°C ~ +80°C	
Relative humidity	$\leq 95\%$ (25°C)	
Altitude	$\leq 3000$ m	
Electric clearance required by EN 60664-1:2003	$\geq 6$ mm	
Dimensions (without terminals)	90.0mm×72.0mm×77mm	
Module pluggable	Pluggable module	

## 5. Dimensions

This product is one-port parallel type SPD, with pluggable module, using 35mm DIN rail, of which bonding hole suitable for maximum 25mm<sup>2</sup> flexible conductor or 35mm<sup>2</sup> rigid conductor.

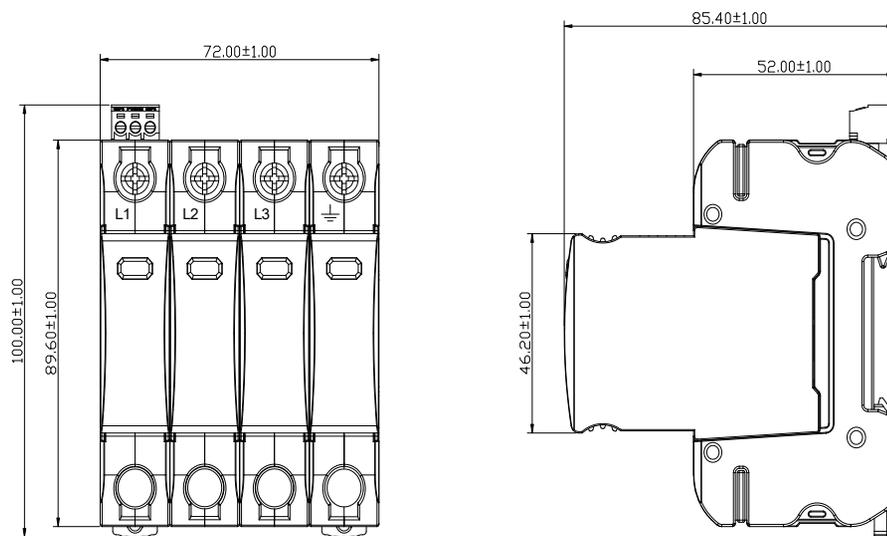


Figure 4-1 Dimensions of VPH880-12.5/3P+1P (T1+T2) (unit: mm)