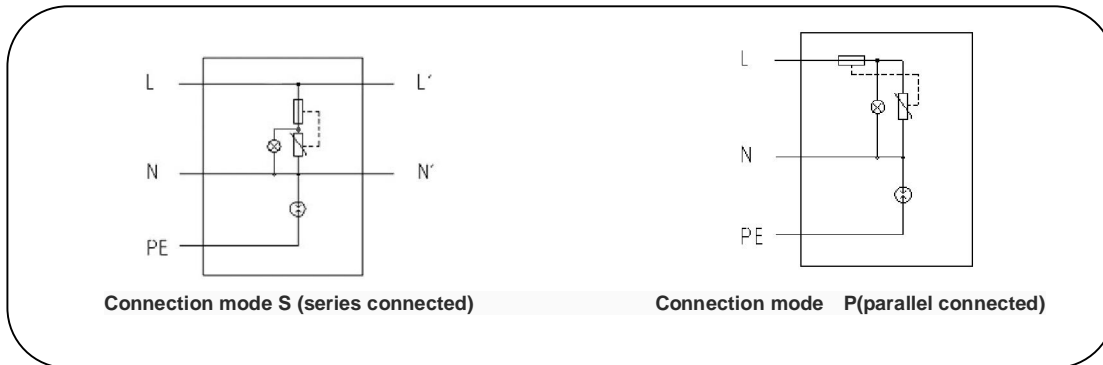


Dimension drawing



Basic circuit diagram

Type 3 surge protector is a compact surge protection device (SPD) especially for LED lightning surge protection at the boundaries from lightning protection zone 1-2 and higher.

- Ø Surge arrester comply with IEC 61643-11 and UL 1449-4th
- Ø Designed to protect single phase LED lighting applications.
- Ø Class SPD, type 4 application with max discharge current 10kA per mode
- Ø When the SPD failed, power supply is normal
- Ø Offering full mode protection to L-PE, L-N, N-PE
- Ø IP65 waterproof enclosure
- Ø LED status indication

Part No.		WS(V+T)/180-10/#	WS(V+T)/320-10/#	WS(V+T)/420-10/#	WS(V+T)/550-10/#
In accordance with		IEC61643-11:2011; UL1449-4th			
Category IEC/VDE/UL		/ D/ Type 4 CSA			
Rated load Current		3A( series connected only)			
Power system		120V single phase	220-277V single phase	347V single phase	480V single phase
Max. continuous operating voltage U <sub>c</sub>	L-N (VAC/VDC)	180/230	320/420	420/560	550/745
	N-PE (VAC)	132	305	382	528
Mode of Protection		Full mode protection			
Nominal discharge current(8/20) I <sub>n</sub>		5kA/Mode			
Max. discharge current(8/20) I <sub>max</sub>		10kA/Mode			
Open circuit voltage U <sub>oc</sub>		10kV			
Voltage protection level	L-N@I <sub>n</sub>	<0.8kV	<1.5kV	<2.0kV	<2.5kV
	L-N@V <sub>PR</sub>	<0.6kV	<1.0kV	<1.4kV	<1.8kV
	N-PE@1.2/50	<1.0kV	<1.5kV	<1.8kV	<2.0kV
Response time	L-N	25 ns			
	N-PE	100 ns			
Follow current	L-N	No			

	N-PE	Ifl: 100Arms @ 132Vac	Ifl: 100Arms @ 255Vac
Backup fuse(only required if not already provided in mains)		16A gL/gG	
Thermal disconnecter		internal	
Protect Status Indication		Normal= Blue LED ON ; Failure: Blue LED Off	
Operating temperature range		- 40°C ~ + 70°C	
connection wire		16AWG(L=red; N=blue; PE=y/g)	
Mounting		wall or plate	
Degree of protection		IP65 (Waterproof)	
Dimension		90*53*30mm	
Altitude		3000m	
Relative Humidity		95% Non Condensing	