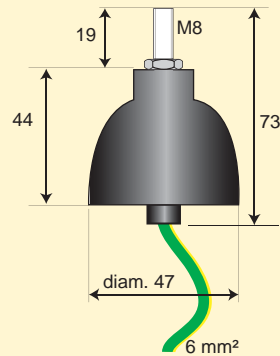


Outdoor Surge Protector for AC/Traction network

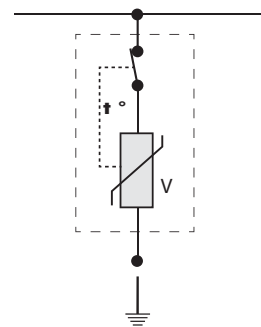
VP range



Dimensions (in mm)



Electrical diagram



V : High energy varistor
t° : Thermal disconnector

The VP is a surge protector designed to protect AC or DC power lines against lightning transient voltages.

It is mounted on outdoor carrier poles to protect overhead lines as AC lines or DC traction lines, and it is connected between one wire and earth.

The internal electrical diagram is based on high energy varistor (MOV). To take care of permanent overvoltage or component ageing, the surge protector device (SPD) is equipped with a thermal disconnector mechanism: in case of overheating, the protective component disconnects itself from the line and the bottom part of the unit is ejected, indicating at distance the failure and the need of maintenance.

VP surge protectors are available in various operating voltages.

Characteristics

CITEL part number	VP25/150	VP25/275	VP25/320	VP25/440	VP25/550
Product type	1-pole surge protector	1-pole surge protector	1-pole surge protector	1-pole surge protector	1-pole surge protector
Maximum operating voltage - Uc	150 Vac 200 Vdc	275 Vac 350 Vdc	320 Vac 420 Vdc	440 Vac 580 Vdc	550 Vac 745 Vdc
Nominal discharge current - In 15 x 8/20 μs	15 kA	15 kA	15 kA	15 kA	15 kA
Maximum discharge current - Imax 1 x 8/20 μs	25 kA	25 kA	25 kA	25 kA	25 kA
Protection level - Up @ 15 kA	0.8 kV	1.1 kV	1.2 kV	1.5 kV	1.8 kV
Response time	< 25 ns				
Mounting	Outdoor (IP66) or indoor				
Connection	Phase connection on threaded rod (8 mm diameter) Earth connection through 6 mm² wire				
Operating Temperature	-40/+80°C				
Enclosure	Thermoplastic UV resistant				
Compliance	IEC 61643-1 Class II test, EN 61643-11 Class II test				

- 1-pole surge protector
- for AC distribution ou Traction lines
- Outdoor installation
- Currents In/Imax : 15/25 kA