

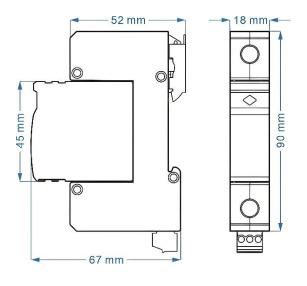
# Surge Protection Devices for Photovoltaic Systems

Product: SPD20C/1-48PVS

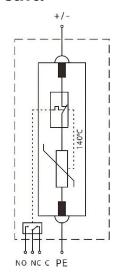


- > DC surge Protective device specially used for photovoltaic system less than 48Vdc.
- The core parts are metal oxide vristor components with high discharge capacity.
- With reliable control thanks to Thermo Dynamic Control disconnector.
- With remote signaling contact for control device.
- Fault indication via red mark in the inspection window.

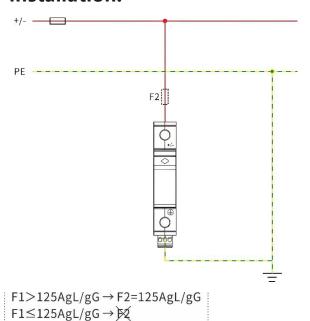
### **Dimension:**

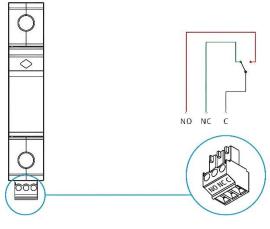


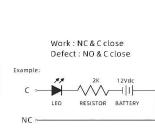
#### **Circuit:**



#### Installation:









## **Electrical parameters:**

Model. No.	SPD20C/1-48PVS
SPD protection conforms to EN50539-11/IEC61643-31	Type 2
SPD installation type conforms to EN50539-11/IEC61643-31	Class II
Protection level conforms to DIN VDE0675-6	С
Type of Network	Photovoltaic systems DC side
Protection mode	(+/-)-PE
Nominal Voltage U <sub>N</sub>	48 Vdc
Maximum continuous operating voltage for PV application UCPV	75 Vdc
Continuous operating current I <sub>CPV</sub>	<20 μΑ
Residual current IPE	≤20 μA dc
	≤500 μA ac
Standby power consumption P <sub>c</sub>	≤25 mVA
Maximum discharge current (8/20μs) I <sub>max</sub>	40 kA
Nominal discharge current (8/20µs) In	20 kA
Voltage protection level U <sub>p</sub>	≤0.6 kV
Isolation resistance R <sub>isol</sub>	> 1000 MΩ
Response time ta	≤25 ns
Remote control contact	YES
Disconnection indicator	Mechanical indicator
	(Green: OK, Red: Replace)
I/O Connections	By screw terminal:10-35mm <sup>2</sup>
	By connection bus
Installation location	Inside
Mounting type	Symmetrical rail (EN50022/DIN46277-3)
Color	Gray
Degree of protection	IP20
Housing material	UL94V-0
Ambient temperature	-40°C ~+80°C
Altitude	≤2000 m (amsl (above mean sea level))
Permissible humidity	30%~90%