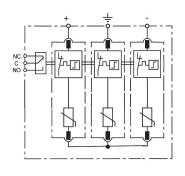
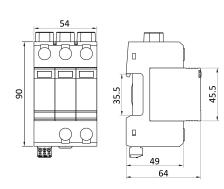


## Class II/T2, PV DC Surge Protective Devices PV40/1500-MVCDR







Basic circuit diagram

Dimension drawing

The PV40 CD is class II (or T2) prewired PV DC SPD designed for DC application such as PV/ Photovoltaic system dc-side protection to against the damage from surges, at the boundaries from lightning protection zone 1-2 and higher.

With built in high energy MOV, PV40 ensures remarkable surge current discharge capacity up to 40kA 8/20 µs and high reliability. The unique design of thermal protection provides quick thermal response and secure disconnection.

- · Class II/T2 PV DC SPD per IEC/EN 61643-31 standard.
- · 18mm narrow model design, prewired three poles of Y circuit for common mode & differential mode protection
- · Application in Photovoltaic (PV) systems and other DC power system like charging system for electric vehicles etc.
- · Unique thermal disconnector design
- · Surge current capability up to 40kA 8/20µs
- · Low voltage protection level
- · Window failure indication and remote signal contact.
- · Pluggable module for easy replacement without the need to remove system wiring.
- · Wide operating temperature -40°C ~85°C
- · 35mm DIN-rail mounting
- · Comply with EN 50539-11,UL1449 5th, IEEE C62.41,CSA C22.2 standards



## **Technical data**

Part No.	PV40/1500-MVCDR
In accordance with	IEC/EN 61643-31; UL1449 5th; EN 50539-11
Category IEC/EU/VDE	II /2/ C
Protection mode	DC+ to DC-, DC+/- to Ground
Nominal Voltage (DC) Un	1500V
Max. continuous operating voltage (DC) Ucpv	1500V
Nominal discharge current (8/20) In	20kA
Max. discharge current (8/20) Imax	40kA
Voltage protection level Up (DC+/- to PE, DC+ to DC-)	4.5kV
Response time tA	≤25ns
Leakage Current Ipe	<0.1mA
Short-circuit Current Iscpv	1000A
Operating temperature range	- 40°C ~ + 85°C
Altitude	-500m ~ +4000m
Cross-section of connection wire (max)	Single-strand 35mm <sup>2</sup> ; multi-strand 25mm <sup>2</sup>
Mounting	35mm DIN-rail in accordance with EN 50022/DIN46277-3
Enclosure material	thermoplastic; extinguishing degree UL94 V-0
Degree of protection	IP20
Installation width	3 modules, DIN 43880
Thermal disconnector	Internal Green – normal ; red - failure
Remote alarm contact	With
Additional data for Remote Alarm Contacts	
Remote alarm contact type	Isolated Form C
Switching capability Un/In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
Cross-section of remote signaling wire	Max. 1.5mm²(or # 16AWG)