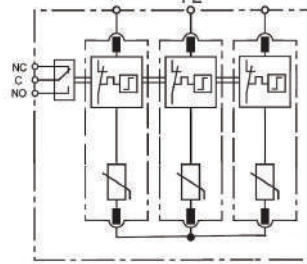


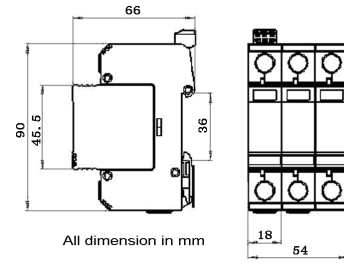
# PV40/1000-MVCDR



Basic circuit diagram



Dimension drawing



Common mode & Differential mode DC Surge arrester for PV/DC system protection against surges at the boundaries from lightning protection zone 1-2 and higher.

- In accordance with EN50539, IEC61643-11 compliance;
- Common Mode and Differential protection;
- Remote signaling contact;
- Pluggable mounting;
- Very low Up protection level

|   |  |        |
|---|--|--------|
| Type  | PV40/1000-MVCDR  |        |
|   | 1000   |        |
| In accordance with  | IEC61643-11:2011; UL1449 3rd                                     |        |
| Category IEC/VDE  | II/ C  |        |
| Protection Mode   | Common mode & Differential mode                                  |        |
| Nominal voltage (Vdc)                                       | Un   | 1000   |
| Max. continuous operating voltage (Vdc)                     | Uc   | 1120   |
| Nominal discharge current(8/20)                             | In   | 20kA   |
| Max. discharge current(8/20)                                | Imax   | 40kA   |
| Voltage protection rating                                   | Up   | <3.6kV |
|   | VPR  | <2.8kV |
| Response time   | ≤25 ns   |        |
| Follow current  | No   |        |
| Backup fuse(only required if not already provided in mains) | 125A gR/gPV  |        |
| Operating temperature range                                 | - 40°C ~ + 80°C  |        |
| Cross-section of connection wire                            | 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 disconnecter  | Internal green – normal ; red - failure                          |        |
| Remote alarm contact  | Yes  |        |
| Approvals, Certifications                                   | CE   |        |
| 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                 |        |
| Max. Size of connecting wire                                | Max. 1.5mm <sup>2</sup> (or # 16AWG)                             |        |