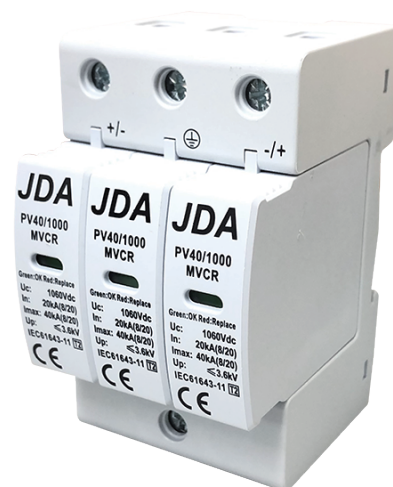


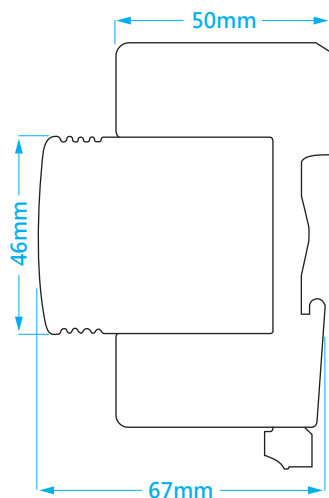
# DC Surge protective device for PV system

## Model No.: PV40/1000-MVCD-R

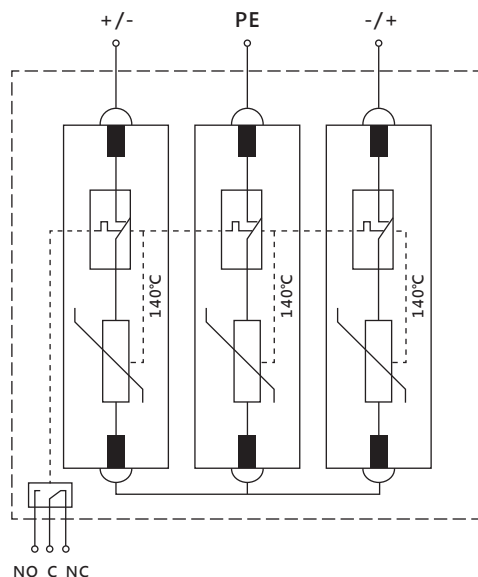
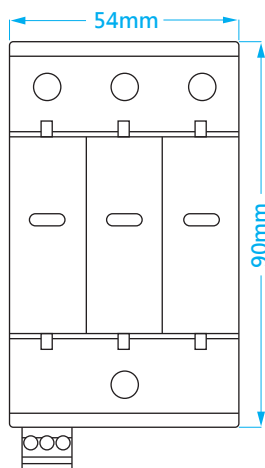
- ◆ DC surge Protective device specially used for photovoltaic system less than 1000Vdc.
- ◆ The core parts are metal oxide vristor components with high discharge capacity.
- ◆ With reliable control thanks to Thermo Dynamic Control disconnecter.
- ◆ With remote signaling contact for control device.
- ◆ Fault indication via red mark in the inspection window.



| Model. No.                                                        | PV40/1000-MVCD-R                                  |
|-------------------------------------------------------------------|---------------------------------------------------|
| 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                        | C                                                 |
| Type of Network                                                   | Photovoltaic systems DC side                      |
| Protection mode                                                   | (+/-)-PE , (-/+)-PE , (+/-)-(-/+)                 |
| Nominal Voltage $U_N$                                             | 1000 Vdc                                          |
| Maximum continuous operating voltage for PV application $U_{CPV}$ | 1060 Vdc                                          |
| Continuous operating current $I_{CPV}$                            | <20 $\mu$ A                                       |
| Residual current $I_{PE}$                                         | $\leq 20 \mu$ A dc<br>$\leq 500 \mu$ A ac         |
| Standby power consumption $P_c$                                   | $\leq 25$ mVA                                     |
| Maximum discharge current (8/20 $\mu$ s) $I_{max}$                | 40 kA                                             |
| Nominal discharge current (8/20 $\mu$ s) $I_n$                    | 20 kA                                             |
| Voltage protection level $U_p$                                    | $\leq 3.6$ kV                                     |
| Isolation resistance $R_{isol}$                                   | >1000 M $\Omega$                                  |
| Response time $t_A$                                               | $\leq 25$ ns                                      |
| Remote control contact                                            | YES                                               |
| Disconnection indicator                                           | Mechanical indicator<br>(Green: OK, Red: Replace) |
| Minimum area of connecting cable                                  | 4 mm <sup>2</sup>                                 |
| Maximum area of connecting cable                                  | 25 mm <sup>2</sup>                                |
| Installation location                                             | Inside                                            |
| Mounting type                                                     | 35mm DIN rail acc. to EN 60715                    |
| Color                                                             | Gray                                              |
| Degree of protection                                              | IP20                                              |
| Housing material                                                  | UL94V-0                                           |
| Ambient temperature                                               | -40°C ~+80°C                                      |
| Altitude                                                          | $\leq 2000$ m (amsl (above mean sea level))       |
| Permissible humidity                                              | 30%~90%                                           |

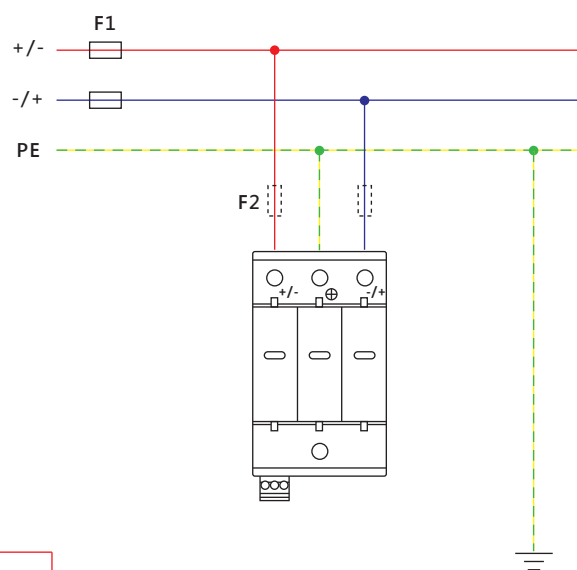


Dimension

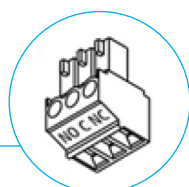
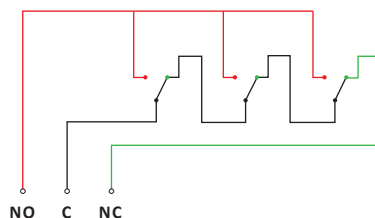
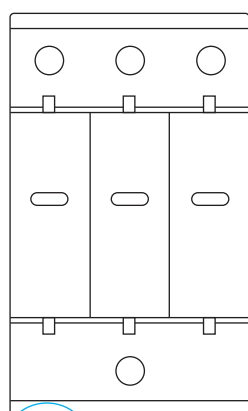


Circuit

F1 > 125AgL/gG → F2 = 125AgL/gG  
F1 ≤ 125AgL/gG → ~~F2~~



Installation



Work : NC & C close  
Defect : NO & C close

Example:

