

# FLP-PV1000/YS

## SPD - for DC and PV / SPD PV type 1 / MOV

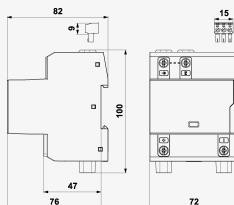
Lightning current arrester and surge arrester for PV systems

visual fault signalling, remote fault signalling

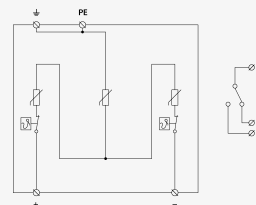
- varistor lightning current arrester and surge arrester in 'Y' connection
- for protection of PV systems on the roofs, where the separating spark-over distance is not kept (connection to LPS)
- maximum continuous operating voltage for PV application:  $UCPV \geq 1.2 \times UOC\ STC$



Product dimensions



Basic circuit diagram



| Parameter name                                    |                     | Parameter value       |
|---------------------------------------------------|---------------------|-----------------------|
| Type of SPD                                       |                     | PV T1, PV T2          |
| Mounting                                          |                     | DIN rail 35 mm        |
| Maximum operating voltage mode +/-PE, -/PE        | $U_{CPV}$           | 1 050.00 V DC         |
| Short-circuit current rating                      | $I_{SCPV}$          | 10 000 A DC           |
| Residual current mode +/-PE, -/PE                 | $I_{PE}$            | 1.000 mA AC           |
| Residual current mode +/-PE, -/PE                 | $I_{PE}$            | 0.010 mA DC           |
| Total discharge current (10/350 $\mu$ s)          | $I_{Total(10/350)}$ | 12.50 kA              |
| Lightning impulse current (10/350 $\mu$ s)        | $I_{imp}$           | 6.25 kA               |
| Total discharge current (8/20 $\mu$ s)            | $I_{Total(8/20)}$   | 80.00 kA              |
| Nominal discharge current (8/20 $\mu$ s)          | $I_n$               | 20.00 kA              |
| Maximum discharge current (8/20 $\mu$ s)          | $I_{max}$           | 40.00 kA              |
| Voltage protection level mode +/-                 | $U_p$               | 3.80 kV               |
| Voltage protection level mode +/-PE, -/PE         | $U_p$               | 3.80 kV               |
| Response time                                     | $t_a$               | 25 ns                 |
| Cross-section of connected conductors solid (min) |                     | 4.00 mm <sup>2</sup>  |
| Cross-section of connected conductors solid (max) |                     | 35.00 mm <sup>2</sup> |

|                                                              |                                           |
|--------------------------------------------------------------|-------------------------------------------|
| Cross-section of connected conductors stranded (min)         | <b>2.50 mm<sup>2</sup></b>                |
| Cross-section of connected conductors stranded (max)         | <b>25.00 mm<sup>2</sup></b>               |
| Cross-section of remote indication conductors solid (max)    | <b>1.5 mm<sup>2</sup></b>                 |
| Cross-section of remote indication conductors stranded (max) | <b>1.5 mm<sup>2</sup></b>                 |
| Fault indication                                             | <b>red indication field</b>               |
| Remote indication                                            | <b>potential-free change-over contact</b> |
| Remote indication contacts                                   | <b>250V/0,5A AC,250V/0,1A DC</b>          |
| Degree of protection                                         | <b>IP 20</b>                              |
| Range of ambient temperatures (min/max)                      | <b>-40 / 80 °C</b>                        |
| According to standard                                        | <b>EN 61643-31, IEC 61643-31</b>          |
| ETIM Class                                                   | <b>EC001457</b>                           |
| Customs tariff number                                        | <b>85363090</b>                           |
| EAN                                                          | <b>8595090541981</b>                      |
| Order number                                                 | <b>A04198</b>                             |