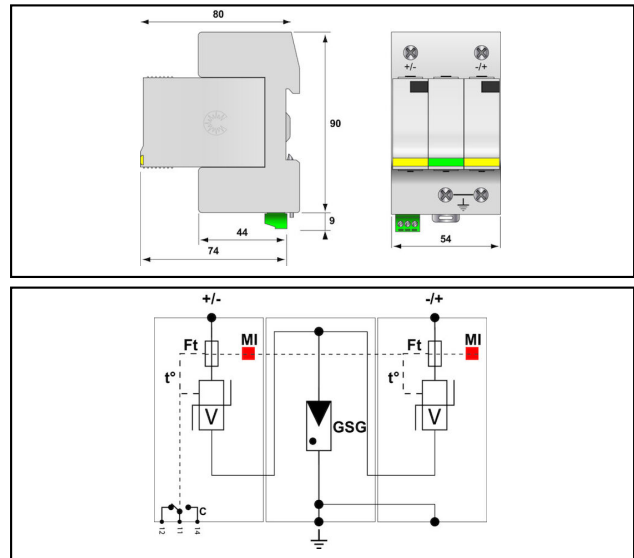


Photovoltaics

DS 50 PVS Photovoltaics surge protection



- Characteristics**
- Surge protector photovoltaic type 1+2
  - $I_{imp} = 5\text{kA/pole (10/350)}$
  - internal disconnection, status indicator
  - follow and operating current: none
  - remote signaling

| Article-Nr. | E-Number    | Typ/Type |  | kA<br>$I_{max}$ | V<br>$U_C$            | kV<br>$U_P$ | kA<br>$I_{imp}$ | ns<br>$t_A$ | kA<br>$i_n$ |  |
|-------------|-------------|----------|-------------------------------------------------------------------------------------|-----------------|-----------------------|-------------|-----------------|-------------|-------------|---------------------------------------------------------------------------------------|
| 296.482.393 | 808 486 340 | T1 / T2  | Yes                                                                                 | 40              | $\leq 1200\text{VDC}$ | 2.6         | 6.25            | 0           | 15          | 1                                                                                     |

## Technical Specifications: Photovoltaics surge protection DS 50 PVS

|                                                             |                                      |
|-------------------------------------------------------------|--------------------------------------|
| Article No.                                                 | 296.482.393                          |
| SPD type                                                    | T1 / T2                              |
| Number of poles                                             | 2                                    |
| max. discharge current (I <sub>max</sub> )                  | 40 kA                                |
| Impulse current [I <sub>imp</sub> ]_(10/350)                | 6.25 kA                              |
| Nominal discharge surge current (8/20)                      | 15 kA                                |
| Voltage protection level [U <sub>p</sub> ]                  | 2.6 kV                               |
| Response time [t <sub>a</sub> ]                             | 0                                    |
| Short circuit resistance (I <sub>cw</sub> )                 | 15 kA                                |
| Follow current [I <sub>F</sub> ]                            | 0 kA                                 |
| Fault indication                                            | mechanisch, Rot                      |
| Temperature range                                           | -40 - 85 °C                          |
| Material housing                                            | Thermoplastik PEI UL-94-V0           |
| Signaling on the device                                     | Optic                                |
| Signaling contact                                           | Yes                                  |
| Connection cross section solid / stranded max.              | 1.5 mm <sup>2</sup>                  |
| Switching capacity signaling contact                        | 250 V/0,5 A (AC) / - 30 V / 2 A (DC) |
| Energetically coordinated protective effect to the terminal | Yes                                  |
| Exhausting                                                  | No                                   |
| Operation voltage max. [U <sub>c</sub> ]                    | ≤1200VDC                             |
| Nominal voltage DC                                          | 1000 V                               |
| Mounting method                                             | DIN rail (top hat rail) 35 mm        |
| Construction size                                           | 3 modular spacing                    |
| System configuration DC                                     | Yes                                  |
| Integrated backup fuse                                      | No                                   |
| Nominal discharge current [I <sub>n</sub> ]                 | 15/Pol                               |
| Total discharge current (8/20) (L N-PE)                     | 60 kA                                |
| Connection cross section                                    | 2 - 25 mm <sup>2</sup>               |
| Degree of protection (IP)                                   | IP20                                 |
| Standards                                                   |                                      |
| Test standards USA                                          | UL 1449 ed.3                         |
| Test standards Europe                                       | EN 50539-11                          |
| Test standards France                                       | UTE C61-740-51                       |
| Commercial specification                                    |                                      |
| Customs number                                              | 85363000                             |
| country of origin                                           | undefined                            |

