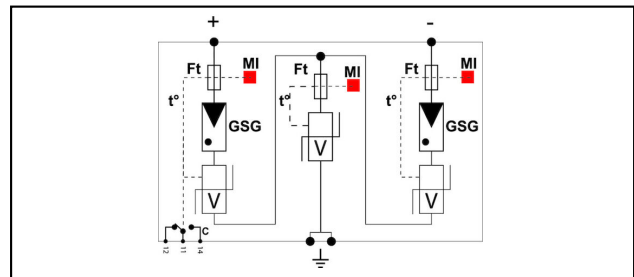
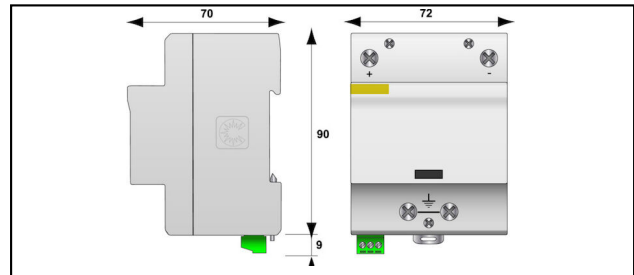


Photovoltaics

■ DS 60 VGPVS Photovoltaics surge protection



- Characteristics**
- Surge protector photovoltaic type 1+2
  - 10 years warranty
  - $I_{imp} = 12.5\text{kA/pole}$  ( $10/350\mu\text{s}$ )
  - internal disconnection, status indicator
  - follow and operating current: none
  - remote signaling

| Article-Nr. | E-Number    |  Typ/Type |  |  kA<br>$I_{imp}$ |  kA<br>$I_{max}$ |  V<br>$U_C$ |  ns<br>$t_A$ |  kV<br>$U_P$ |  |  |
|-------------|-------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|
| 296.045.923 | 808 486 100 | T1 / T2                                                                                      | Yes                                                                                 | 12.5                                                                                                | 40                                                                                                  | $\leq 500\text{VDC}$                                                                           | 0                                                                                                 | 1.7                                                                                               |  | 1                                                                                     |

## Technical Specifications: Photovoltaics surge protection DS 60 VGPVS

|                                                             |                                      |
|-------------------------------------------------------------|--------------------------------------|
| Article No.                                                 | 296.045.923                          |
| Operation voltage max. [Uc]                                 | ≤500VDC                              |
| SPD type                                                    | T1 / T2                              |
| Number of poles                                             | 2                                    |
| max. discharge current (Imax)                               | 40 kA                                |
| Nominal line voltage Un DC                                  | 600 V                                |
| Impulse current [Iimp]_(10/350)                             | 12.5 kA                              |
| Nominal cross section conductor                             | 6 - 35 mm <sup>2</sup>               |
| Discharge current max. (8/20) μs [Imax]                     | 40 kA                                |
| Nominal discharge surge current (8/20)                      | 20 kA                                |
| Voltage protection level [Up]                               | 1.7 kV                               |
| Protection level max. (at 5kA)                              | 1.3 kV                               |
| Protection level max. (at 12.5kA)                           | 1.5 kV                               |
| Operating current [Ic]                                      | 0 kA                                 |
| Follow current [IF]                                         | 0 kA                                 |
| follow current extinguishing capability [Ifi]               | Unendlich                            |
| Response time [ta]                                          | 0                                    |
| Short circuit resistance (Icw)                              | 25 kA                                |
| Fault indication                                            | Mechanisch, Rot                      |
| Temperature range                                           | -40 - 85 °C                          |
| Degree of protection                                        | IP20                                 |
| 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                                  |
| System configuration DC                                     | Yes                                  |
| Construction size                                           | 4 modular spacing                    |
| Nominal discharge current [In]                              | 20/Pol                               |
| Integrated backup fuse                                      | No                                   |
| Exhausting                                                  | No                                   |
| Number of poles                                             | 2                                    |
| Mounting method                                             | DIN rail (top hat rail) 35 mm        |
| Degree of protection (IP)                                   | IP20                                 |
| Standards                                                   |                                      |
| Homologation                                                | VDE, ÖVE und UL                      |
| Test standards USA                                          | UL 1449 ed.3                         |
| Test standards Europe                                       | FprEN 50539-11                       |
| Test standards France                                       | UTE C61-740-51                       |
| Commercial specification                                    |                                      |
| Customs number                                              | 85363000                             |
| country of origin                                           | undefined                            |
| Logistic specification                                      |                                      |
| VPE Weight                                                  | 0.432 kg                             |