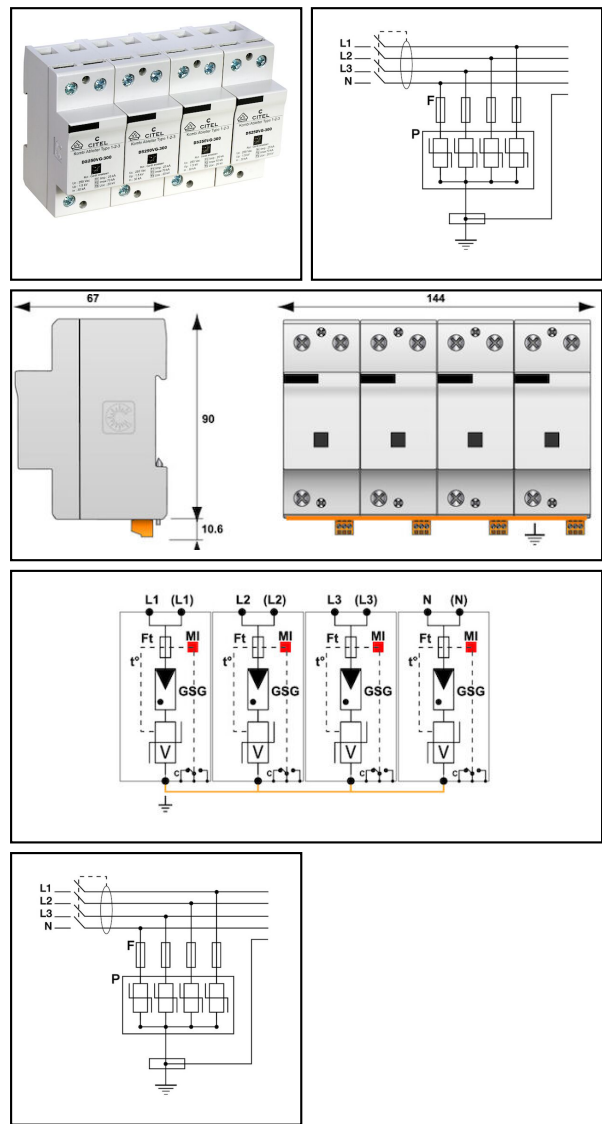


Surge Protection (Type 1)

■ **DS 250 VG**    Overvoltage protection T1+T2+T3



- Characteristics**
- surge protector type 1+2+3
  - 10 years warranty
  - limp = 25kA/pole (10/350µs)
  - optimized to TOV
  - internal disconnection, status indicator
  - follow and operating current: none
  - remote signaling

| Article-Nr. | E-Number    | Typ/Type     |  | kA<br>$I_{imp}$ | kA<br>$I_{max}$ | ns<br>$t_A$ | kV<br>$U_P$ | kA<br>$i_n$ | mm <sup>2</sup><br> |  |
|-------------|-------------|--------------|-------------------------------------------------------------------------------------|-----------------|-----------------|-------------|-------------|-------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 296.901.374 | 808 451 020 | T1 / T2 / T3 | 1                                                                                   | 25              | 70              | ≤20         | 1.5         | 30          | 6 - 50                                                                                                   | Yes                                                                                   |
| 296.902.374 | 808 453 010 | T1 / T2 / T3 | 3                                                                                   | 25              | 70              | ≤20         | 1.5         | 30          | 6 - 50                                                                                                   | Yes                                                                                   |
| 296.900.374 | 808 454 010 | T1 / T2 / T3 | 4                                                                                   | 25              | 70              | ≤20         | 1.5         | 30          | 6 - 50                                                                                                   | Yes                                                                                   |

Technical Specifications: **Overvoltage protection T1+T2+T3 DS 250 VG**

|                                                             |                                      |                   |                   |
|-------------------------------------------------------------|--------------------------------------|-------------------|-------------------|
|                                                             | 296.901.374                          | 296.902.374       | 296.900.374       |
| SPD type                                                    | T1 / T2 / T3                         |                   |                   |
| Number of poles                                             | 1                                    | 3                 | 4                 |
| max. discharge current (Imax)                               | 70 kA                                |                   |                   |
| Nominal line voltage Un AC                                  | 230 V                                |                   |                   |
| Continuous voltage AC max.                                  | 255 V                                |                   |                   |
| Nominal frequency [fn]                                      | 0 - 100 Hz                           |                   |                   |
| Impulse current [Iimp]_(10/350)                             | 25 kA                                |                   |                   |
| Discharge current max. (8/20) μs [Imax]                     | 70 kA                                |                   |                   |
| Nominal discharge surge current (8/20)                      | 30 kA                                |                   |                   |
| Combined shock [Uoc]                                        | 20 kV                                |                   |                   |
| Voltage protection level [Up]                               | 1.5 kV                               |                   |                   |
| Protection level max. (at 5kA)                              | 0.65 kV                              |                   |                   |
| Protection level max. (at 12.5kA)                           | 0.8 kV                               |                   |                   |
| Protection level max. (at Imax)                             | 1.5 kV                               |                   |                   |
| Operating current [Ic]                                      | 0 kA                                 |                   |                   |
| Follow current [IF]                                         | 0 kA                                 |                   |                   |
| follow current extinguishing capability [Ifi]               | Unendlich kA eff                     |                   |                   |
| Response time [ta]                                          | ≤20 ns                               |                   |                   |
| TOV-voltage L-N [UT]                                        | 450 V / 5 sec.                       |                   |                   |
| TOV-voltage N-PE [UT]                                       | 1200 V / 200 ms / 300 A              |                   |                   |
| TOV-voltage L-PE [UT]                                       | 1454 V / 200 ms / 300 A              |                   |                   |
| Short circuit resistance (Icw)                              | 25 kA                                |                   |                   |
| Fault indication                                            | mechanisch, Rot                      |                   |                   |
| Temperature range                                           | -40 - 85 °C                          |                   |                   |
| Degree of protection                                        | IP20                                 |                   |                   |
| Fuse max. (gG)                                              | 315 A                                |                   |                   |
| Mounting on                                                 | Hutschiene 35 mm                     |                   |                   |
| Material housing                                            | Thermoplast PEI UL-94-5VA            |                   |                   |
| Signaling on the device                                     | Optic                                |                   |                   |
| Signaling contact                                           | Yes                                  |                   |                   |
| Connection cross section solid / stranded max.              | 1.5 mm²                              |                   |                   |
| Switching capacity signaling contact                        | 250 V/0,5 A (AC) / 125 V/0,25 A (DC) |                   |                   |
| System configuration                                        |                                      |                   | TN-S              |
| Energetically coordinated protective effect to the terminal | Yes                                  |                   |                   |
| Construction size                                           | 2 modular spacing                    | 6 modular spacing | 8 modular spacing |
| Exhausting                                                  | No                                   |                   |                   |
| Network configuration                                       | Yes                                  |                   |                   |
| Nominal cross section conductor                             | 6 - 50 mm²                           |                   |                   |
| Voltage protection level L-N [Up]                           | 1.5 kV                               |                   |                   |
| Mounting method                                             | DIN rail (top hat rail) 35 mm        |                   |                   |
| Degree of protection (IP)                                   | IP20                                 |                   |                   |
| Standards                                                   |                                      |                   |                   |
| Homologation                                                | UL                                   |                   |                   |
| Test standards Europe                                       | EN 61643-11                          |                   |                   |
| Test standards International                                | IEC 61643-11                         |                   |                   |
| Test standards USA                                          | UL 1449 d.3                          |                   |                   |
| Commercial specification                                    |                                      |                   |                   |
| Customs number                                              | 85363000                             |                   |                   |
| country of origin                                           | CE                                   |                   | undefined         |
| Logistic specification                                      |                                      |                   |                   |
| VPE Weight                                                  | 0.33 kg                              | 0.896 kg          | 1.18 kg           |

