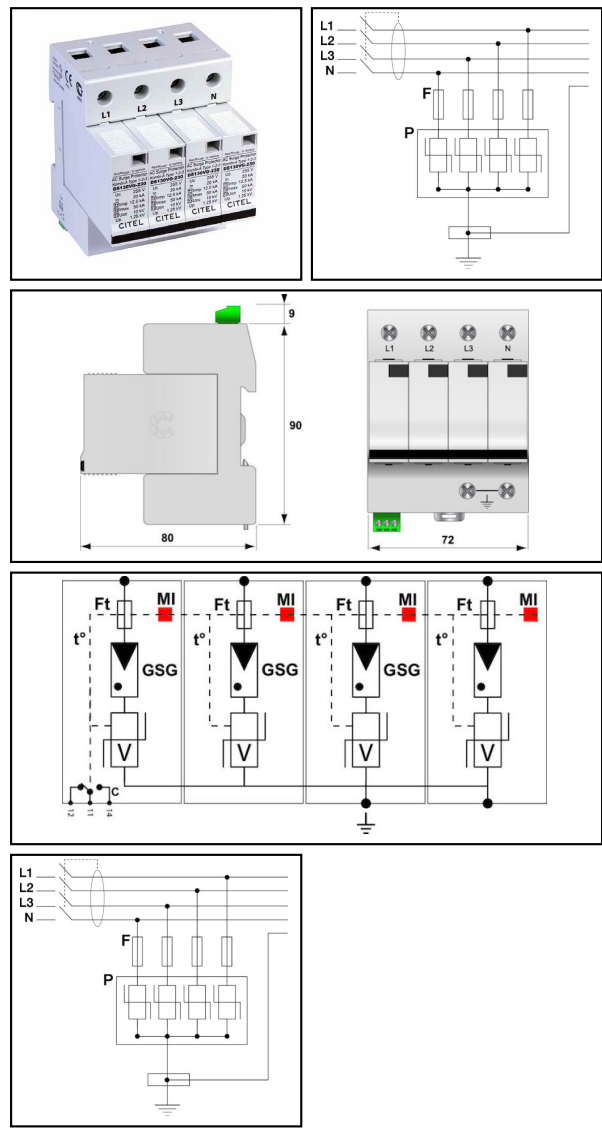


Surge Protection (Type 1)

DS 130 VGS Surge Protector



- Characteristics**
- surge protector type 1+2+3
  - 10 years warranty
  - $I_{imp} = 12.5\text{kA/pole}$  ( $10/350\mu\text{s}$ )
  - 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>$U_P$ | mm <sup>2</sup><br> |  |
|-------------|-------------|--------------|-------------------------------------------------------------------------------------|-----------------|-----------------|-------------|-------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 296.571.574 | 808 454 020 | T1 / T2 / T3 | 4                                                                                   | 12.5            | 50              | ≤20         | 1           | 2.5 - 25                                                                                                 | 1                                                                                     |

## Technical Specifications: Surge Protector DS 130 VGS

|                                                             |                                      |
|-------------------------------------------------------------|--------------------------------------|
| Article No.                                                 | 296.571.574                          |
| SPD type                                                    | T1 / T2 / T3                         |
| Number of poles                                             | 4                                    |
| max. discharge current (I <sub>max</sub> )                  | 50 kA                                |
| Nominal line voltage U <sub>n</sub> AC                      | 230 V                                |
| Continuous voltage AC max.                                  | 275 V                                |
| Nominal frequency [fn]                                      | 0 - 100 Hz                           |
| Impulse current [I <sub>imp</sub> ] (10/350)                | 12.5 kA                              |
| Discharge current max. (8/20) $\mu$ s [I <sub>max</sub> ]   | 50 kA                                |
| Nominal discharge surge current (8/20)                      | 20 kA                                |
| Combined shock [U <sub>oc</sub> ]                           | 20 kV                                |
| Voltage protection level [Up]                               | 1 kV                                 |
| Protection level max. (at 5kA)                              | 0.65 kV                              |
| Protection level max. (at 12.5kA)                           | 0.8 kV                               |
| Protection level max. (at I <sub>max</sub> )                | 1 kV                                 |
| Operating current [I <sub>c</sub> ]                         | 0 kA                                 |
| Follow current [IF]                                         | 0 kA                                 |
| follow current extinguishing capability [Ifi]               | Unendlich                            |
| Response time [ta]                                          | ≤20                                  |
| TOV-voltage L-N [UT]                                        | 335 V / 5 sec.                       |
| TOV-voltage L-PE [UT]                                       | 1200 V / 200 ms / 300 A              |
| Short circuit resistance (I <sub>cw</sub> )                 | 25 kA                                |
| Fault indication                                            | Mechanisch, Rot                      |
| Temperature range                                           | -40 - 85 °C                          |
| Degree of protection                                        | IP 20                                |
| Fuse max. (gG)                                              | 160 A                                |
| Mounting on                                                 | Hutschiene 35 mm                     |
| 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) |
| System configuration                                        | TN-S                                 |
| Energetically coordinated protective effect to the terminal | Yes                                  |
| Integrated backup fuse                                      | No                                   |
| Voltage protection level max. (by In) [Up]                  | <1.0                                 |
| Construction size                                           | 4 modular spacing                    |
| Nominal cross section conductor                             | 2.5 - 25 mm <sup>2</sup>             |
| Exhausting                                                  | No                                   |
| Mounting method                                             | DIN rail (top hat rail) 35 mm        |
| Network configuration                                       | Yes                                  |
| Voltage protection level L-N [Up]                           | 1 kV                                 |
| Remote signalling                                           | Yes                                  |
| Total discharge current (8/20) (L N-PE)                     | 50 kA                                |
| Degree of protection (IP)                                   | IP20                                 |
| Standards                                                   |                                      |
| Homologation                                                | VDE, ÖVE und UL                      |
| Test standards International                                | IEC 61643-11                         |
| Test standards USA                                          | UL 1449 ed.3                         |
| Test standards Europe                                       | EN 61643-11                          |
| Commercial specification                                    |                                      |
| Customs number                                              | 85363000                             |
| country of origin                                           | RC                                   |
| Logistic specification                                      |                                      |
| VPE Weight                                                  | 0.6 kg                               |