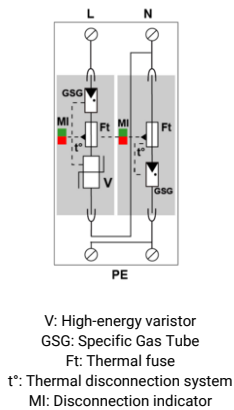
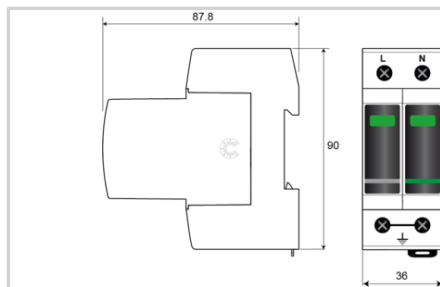




- Type 1 + 2 + 3 AC surge protector
- VG Technology
- $I_n$  : 20 kA
- $I_{imp}$  : 12.5 kA on 10/350 $\mu$ s impulse
- No leakage current
- Pluggable module for each phase
- Remote signaling (option)
- Optimized to TOV
- EN 61643-11, IEC 61643-11 certified
- UL1449 ed.5 compliance



### Electrical Characteristics

|                                                                                                          |            |                              |
|----------------------------------------------------------------------------------------------------------|------------|------------------------------|
| SPD type                                                                                                 |            | 1+2+3                        |
| Network                                                                                                  |            | 120 V single-phase           |
| AC system                                                                                                |            | TT-TN                        |
| Max. AC operating voltage                                                                                | Uc         | 150 Vac                      |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection                              | UT         | 180 Vac withstand            |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT         | 230 Vac withstand            |
| Temporary Over Voltage N/PE (TOV HT) Without disconnection or with safety disconnection                  | UT         | 1200 V/300A/200 ms withstand |
| Residual Current Leakage current to Ground                                                               | Ipe        | None                         |
| Follow current                                                                                           | If         | None                         |
| Nominal discharge current 15 x 8/20 $\mu$ s impulses                                                     | In         | 20 kA                        |
| Max. discharge current max. withstand @ 8/20 $\mu$ s by pole                                             | Imax       | 50 kA                        |
| Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s                                      | Imax Total | 100 kA                       |
| Impulse current by pole max. withstand 10/350 $\mu$ s by pole                                            | Iimp       | 12.5 kA                      |
| Total lightning current max. total withstand @ 10/350 $\mu$ s                                            | Itotal     | 25 kA                        |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s             | Uoc        | 6 kV                         |
| Specific energy by pole max. withstand 10/350 $\mu$ s                                                    | W/R        | 40 kJ/ohm                    |
| Protection mode(s)                                                                                       |            | L/N and N/PE                 |
| Protection level @ In (8/20 $\mu$ s) and @ 6 kV (1,2/50 $\mu$ s)                                         | Up L/N     | 1.5 kV                       |
| Protection level N/PE @ In (8/20 $\mu$ s) and @ 6 kV (1,2/50 $\mu$ s)                                    | Up N/PE    | 1.5 kV                       |
| Residual voltage L/N at 5 kA @ 5 kA (8/20 $\mu$ s)                                                       | Up-5kA     | 0.4 kV                       |
| Protection level N/PE at 5 kA @ 5 kA (8/20 $\mu$ s)                                                      | Up-5kA     | 0.4 kV                       |
| Admissible short-circuit current                                                                         | Iscrr      | 50 000 A                     |

### Mechanical Characteristics

|                                           |    |                                                                     |
|-------------------------------------------|----|---------------------------------------------------------------------|
| Technology                                |    | VG Technology (MOV+GSG)                                             |
| SPD configuration                         |    | Single phase                                                        |
| Connection to Network                     |    | By screw terminals: 2.5-25mm <sup>2</sup> (35mm <sup>2</sup> rigid) |
| Format                                    |    | Plug-in modular box                                                 |
| Mounting                                  |    | Symmetrical rail 35 mm (EN 60715)                                   |
| Housing material                          |    | Thermoplastic UL94 V-0                                              |
| Operating temperature                     | Tu | -40/+85°C                                                           |
| Protection rating                         |    | IP20                                                                |
| Failsafe mode                             |    | Disconnection from AC network                                       |
| Disconnection indicator                   |    | 1 mechanical indicator by pole - Red/Green                          |
| Spare module(s)                           |    | MDAC1-13VG-150 + MDAC1-25G-xxx                                      |
| Remote signaling of disconnection         |    | option DAC1-13VGS-11-150 : output on changeover contact             |
| Wiring for remote signaling               |    | 1.5 mm <sup>2</sup> max.                                            |
| Max. Voltage/Current for remote signaling |    | 250 V / 0.5 A (AC) / 30 V / 3 A (DC)                                |
| Dimensions                                |    | See diagram - 2TE (EN43880)                                         |

### Disconnectors

|                                   |  |                                                           |
|-----------------------------------|--|-----------------------------------------------------------|
| Thermal disconnector              |  | Internal                                                  |
| Installation ground fault breaker |  | Type 'S' or delayed                                       |
|                                   |  | Fuse assembly: SFD1-13S-11 / or 125 A min. - 315 A max. - |

DAC1-13VG-11-150

|                           |                                          |
|---------------------------|------------------------------------------|
| Back-up protection device | Fuses Type gG                            |
| Standards                 |                                          |
| Standards compliance      | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification             | KEMA                                     |
| Part number               |                                          |
| 821730132                 |                                          |