



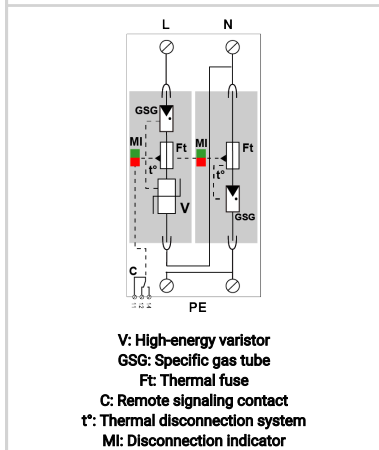
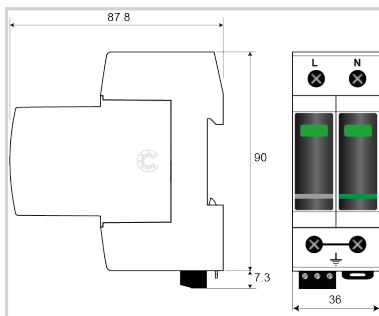
# CITEL

## Type 1+2 AC surge protector - Single Phase

### DAC1-13VGS-11-275



- Type 1 + 2 + 3 AC surge protector
- VG Technology
- In : 20 kA
- Iimp : 12,5 kA on 10/350µs impulse
- No leakage current
- Pluggable module for each phase
- Remote signaling
- Optimized to TOV
- EN 61643-11, IEC 61643-11 and UL1449 ed.5 compliance
- Certified EN 61643-11 and IEC 61643-11



#### Electrical Characteristics

|  |                        |                              |
|--|------------------------|------------------------------|
| SPD type   | IEC                    | 1+2+3                        |
| Network  |                        | 230/400 V                    |
| AC system  |                        | TT-TN                        |
| Max. AC operating voltage  | Uc                     | 275 Vac                      |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br><i>Without disconnection</i>                              | UT                     | 335 Vac withstand            |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br><i>Without disconnection or with safety disconnection</i> | UT                     | 440 Vac withstand            |
| Temporary Over Voltage N/PE (TOV HT)<br><i>Without disconnection or with safety disconnection</i>                  | UT                     | 1200 V/300A/200 ms withstand |
| Residual Current<br><i>Leakage current to Ground</i>   | Ipe                    | None                         |
| Follow current   | If                     | None                         |
| Nominal discharge current<br><i>15 x 8/20 µs impulses</i>  | In                     | 20 kA                        |
| Max. discharge current<br><i>max. withstand @ 8/20 µs by pole</i>  | I <sub>max</sub>       | 50 kA                        |
| Total Maximum discharge current<br><i>max. total withstand @ 8/20 µs</i>   | I <sub>max</sub> Total | 100 kA                       |
| Impulse current by pole<br><i>max. withstand 10/350µs by pole</i>  | I <sub>imp</sub>       | 12.5 kA                      |
| Impulse current N/PE<br><i>max. withstand 10/350µs</i>   | I <sub>imp</sub> N /PE | 50 kA                        |
| Total lightning current<br><i>max. total withstand @ 10/350µs</i>  | I <sub>total</sub>     | 25 kA                        |
| Withstand on Combination waveform IEC 61643-11<br><i>Class III test: 1.2/50µs - 8/20µs</i>                         | Uoc                    | 6 kV                         |
| Specific energy by pole<br><i>max. withstand 10/350 µs</i>   | W/R                    | 40 kJ/ohm                    |
| Protection mode(s)   |                        | L/N and N/PE                 |
| Protection level<br><i>@ In (8/20µs) and @ 6 kV (1,2/50 µs)</i>  | Up L/N                 | 1.5 kV                       |
| Protection level N/PE<br><i>@ In (8/20µs) and @ 6 kV (1,2/50 µs)</i>   | Up N/PE                | 1.5 kV                       |
| Residual voltage L/N at 5 kA<br><i>@ 5 kA (8/20µs)</i>   | Up-5kA                 | 0.7 kV                       |
| Protection level N/PE at 5 kA<br><i>@ 5 kA (8/20µs)</i>  | Up-5kA                 | 0.7 kV                       |
| Admissible short-circuit current   | I <sub>scrr</sub>      | 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-275 + MDAC1-25G-xxx                                      |
| Remote signaling of disconnection         |    | 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 |
|----------------------|--|----------|



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### DAC1-13VGS-11-275

|                                   |  |
|-----------------------------------|--|
| Installation ground fault breaker | Type 'S' or delayed  |
| Back-up protection device         | Fuse assembly: SFD1-13S-20 / or 125 A min. - 315 A max. -<br>Fuses Type gG |
| <b>Standards</b>                  |  |
| Standards compliance              | IEC 61643-11 / EN 61643-11 / UL1449 ed.5                                   |
| Certification                     | KEMA   |
| <b>Part number</b>                |  |
| <b>821730242</b>                  |  |

