



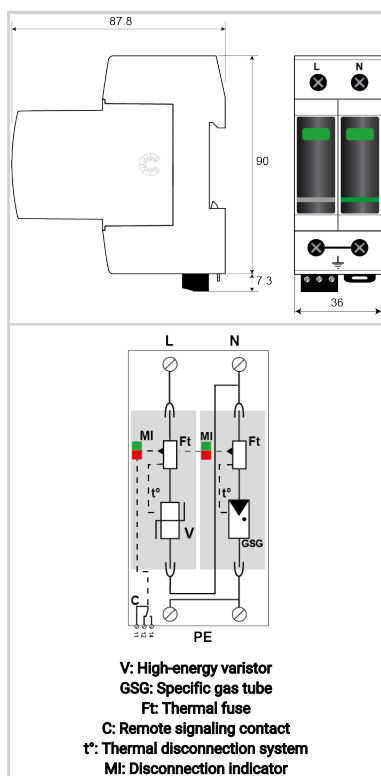
# CITEL



## Type 1+2 AC surge protector single-phase

### DAC1-13S-11-275

- Type 1 + 2 AC surge protector
- In : 20 kA
- Iimp : 12.5 kA
- Pluggable module for each phase
- Remote signaling
- EN 61643-11, IEC 61643-11 certified
- UL1449 ed.5 compliance



| Electrical Characteristics                                                                               |                        |                                                                     |
|----------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------|
| SPD type                                                                                                 | IEC                    | 1+2                                                                 |
| Network                                                                                                  |                        | 230/400V                                                            |
| AC system                                                                                                |                        | TT-TN                                                               |
| Max. AC operating voltage                                                                                | Uc                     | 275 Vac                                                             |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection                              | UT                     | 335 Vac withstand                                                   |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT                     | 440 Vac disconnection                                               |
| 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 µs impulses                                                          | In                     | 20 kA                                                               |
| Max. discharge current max. withstand @ 8/20 µs by pole                                                  | I <sub>max</sub>       | 50 kA                                                               |
| Total Maximum discharge current max. total withstand @ 8/20 µs                                           | I <sub>max</sub> Total | 100 kA                                                              |
| Impulse current by pole max. withstand 10/350µs by pole                                                  | I <sub>imp</sub>       | 12.5 kA                                                             |
| Impulse current N/PE max. withstand 10/350µs                                                             | I <sub>imp</sub> N /PE | 50 kA                                                               |
| Total lightning current max. total withstand @ 10/350µs                                                  | I <sub>total</sub>     | 25 kA                                                               |
| Specific energy by pole max. withstand 10/350 µs                                                         | W/R                    | 40 kJ/ohm                                                           |
| Protection mode(s)                                                                                       |                        | L/N and N/PE                                                        |
| Protection level @ In (8/20µs) and @ 6 kV (1,2/50 µs)                                                    | Up L/N                 | 1.3 kV                                                              |
| Protection level N/PE @ In (8/20µs) and @ 6 kV (1,2/50 µs)                                               | Up N/PE                | 1.5 kV                                                              |
| Residual voltage L/N at 5 kA @ 5 kA (8/20µs)                                                             | Up-5kA                 | 1 kV                                                                |
| Protection level N/PE at 5 kA @ 5 kA (8/20µs)                                                            | Up-5kA                 | 1 kV                                                                |
| Admissible short-circuit current                                                                         | I <sub>sc</sub>        | 50 000 A                                                            |
| Mechanical Characteristics                                                                               |                        |                                                                     |
| Technology                                                                                               |                        | MOV+GDT                                                             |
| 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)                                                                                          |                        | MDAC1-13-275 + 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                                                            |
| Installation ground fault breaker                                                                        |                        | Type 'S' or delayed                                                 |
| Back-up protection device                                                                                |                        | max. 315 A (gL/gG)                                                  |



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| Standards            |  |                                          |
|----------------------|--|------------------------------------------|
| Standards compliance |  | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification        |  | KEMA                                     |
| Part number          |  |                                          |
| 821710242            |  |                                          |

