



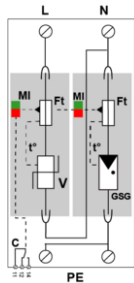
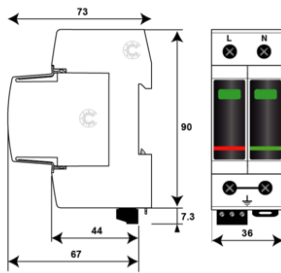
## Type 2 AC surge protector - Single-phase

# CITEL

## DAC50S-11-275



- ▶ Type 2 AC surge protector
- ▶ In: 20 kA
- ▶ I<sub>max</sub>: 50 kA
- ▶ Pluggable module for each phase
- ▶ Remote signaling
- ▶ UL1449 ed.5 certified
- ▶ EN 61643-11, IEC 61643-11 compliance



V: High-energy varistor  
 GSG: Specific gas tube  
 Ft: Thermal fuse  
 C: Remote signaling contact  
 t\*: Thermal disconnection system  
 MI: Disconnection indicator

### Electrical Characteristics

|                                                                                                          |                        |                              |
|----------------------------------------------------------------------------------------------------------|------------------------|------------------------------|
| SPD type                                                                                                 |                        | 2                            |
| Network                                                                                                  |                        | 230 V single-phase           |
| AC system                                                                                                |                        | TT-TN                        |
| Max. AC operating voltage                                                                                | U <sub>c</sub>         | 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                                                               | I <sub>pe</sub>        | None                         |
| Follow current                                                                                           | I <sub>f</sub>         | None                         |
| Nominal discharge current 15 x 8/20 μs impulses                                                          | I <sub>n</sub>         | 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 Total</sub> | 50 kA                        |
| Protection mode(s)                                                                                       |                        | L/N and N/PE                 |
| Protection level @ I <sub>n</sub> (8/20μs) and @ 6 kV (1,2/50 μs)                                        | Up L/N                 | 1.25 kV                      |
| Protection level N/PE @ I <sub>n</sub> (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>  |
| Format                                    |                | Plug-in modular box                        |
| Mounting                                  |                | Symmetrical rail 35 mm (EN 60715)          |
| Housing material                          |                | Thermoplastic UL94 V-0                     |
| Operating temperature                     | T <sub>u</sub> | -40/+85°C                                  |
| Protection rating                         |                | IP20                                       |
| Failsafe mode                             |                | Disconnection from AC network              |
| Disconnection indicator                   |                | 1 mechanical indicator by pole - Red/Green |
| Spare module(s)                           |                | MDAC50-275+MDAC50G-275                     |
| 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)                |
| Weight                                    |                | 0.188 kg                                   |

### Disconnectors

|                                   |  |                                        |
|-----------------------------------|--|----------------------------------------|
| Thermal disconnecter              |  | Internal                               |
| Installation ground fault breaker |  | Type 'S' or delayed                    |
| Back-up protection device         |  | 50 A min. - 125 A max. - Fuses Type gG |

### Standards

|                      |  |                                          |
|----------------------|--|------------------------------------------|
| Standards compliance |  | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification        |  | OVE / UL                                 |

### Part number

821110242

