



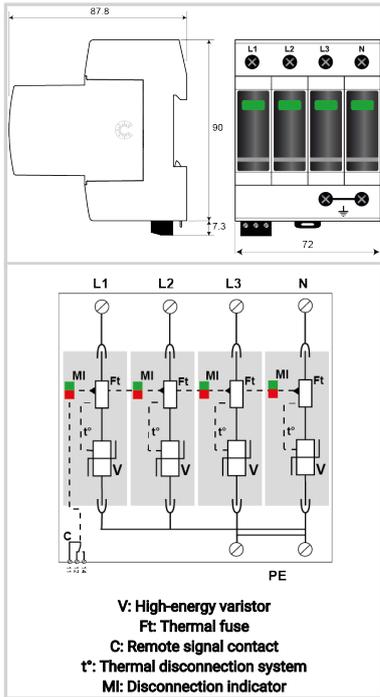
# CITEL

## Type 1+2 AC surge protector - 3-phase+N

### DAC1-13S-40-150



- 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  |                        | 120/208 V 3-phase+N   |
| AC system  |                        | TNS                   |
| 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 disconnection |
| Residual Current Leakage current to Ground   | Ipe                    | < 1 mA                |
| 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 | 200 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>     | 50 kA                 |
| Specific energy by pole max. withstand 10/350 μs   | W/R                    | 40 kJ/ohm             |
| Protection mode(s)   |                        | L/PE and N/PE         |
| Protection level N/PE @ In (8/20μs)  | Up N/PE                | 0.9 kV                |
| Protection level L/PE @ In (8/20μs)  | Up L/PE                | 1.2 kV                |
| Protection level N/PE at 5 kA @ 5 kA (8/20μs)  | Up-5kA                 | 0.6 kV                |
| Residual voltage L/PE at 5 kA @ 5 kA (8/20μs)  | Up-5kA                 | 0.6 kV                |
| Admissible short-circuit current   | I <sub>sc</sub>        | 50 000 A              |

#### Mechanical Characteristics

|   |    |   |
|---|----|---|
| Technology                                |    | MOV   |
| SPD configuration                         |    | 3-phase+Neutral   |
| 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)                           |    | MDAC1-13-150  |
| 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 - 4TE (EN43880)   |
| Weight                                    |    | 0.530 kg  |

#### Disconnectors

|                                   |  |                     |
|-----------------------------------|--|---------------------|
| Thermal disconnector              |  | Internal            |
| Installation ground fault breaker |  | Type 'S' or delayed |
| Back-up protection device         |  | max. 315 A (gL/gG)  |

#### Standards

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

#### Part number

**821710124**

