



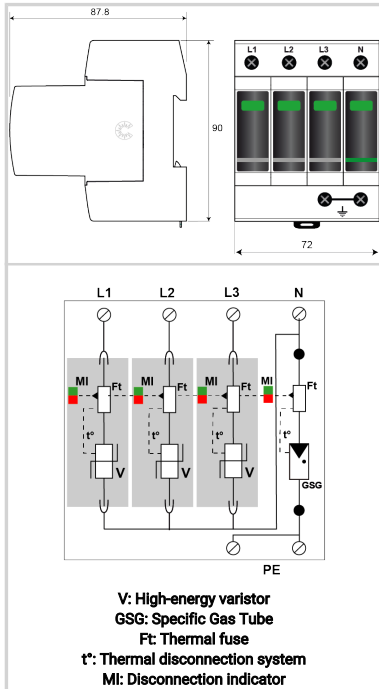
# CITEL

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

### DAC1-13-31-320



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



#### Electrical Characteristics

|  |                        |                              |
|--|------------------------|------------------------------|
| SPD type   | IEC                    | 1+2                          |
| Network  |                        | 230/400 V 3-phase+N          |
| AC system  |                        | TT-TNS                       |
| Max. AC operating voltage  | Uc                     | 320 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 | 150 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/N and N/PE                 |
| Protection level @ In (8/20μs) and @ 6 kV (1,2/50 μs)  | Up L/N                 | 1.5 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                 | 1.2 kV                       |
| Protection level N/PE at 5 kA @ 5 kA (8/20μs)  | Up-5kA                 | 1.2 kV                       |
| Admissible short-circuit current   | I <sub>sc</sub>        | 50 000 A                     |

#### Mechanical Characteristics

|                                   |    |   |
|-----------------------------------|----|---|
| Technology                        |    | MOV+GDT   |
| 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)                   |    | MDAC1-13-320  |
| Remote signaling of disconnection |    | option DAC1-13S-31-320 : output on changeover contact               |
| Dimensions                        |    | See diagram - 4TE (EN43880)   |

#### Disconnectors

|                                   |  |   |
|-----------------------------------|--|---|
| Thermal disconnector              |  | Internal  |
| Installation ground fault breaker |  | Type 'S' or delayed   |
| Back-up protection device         |  | Fuse assembly: SFD1-13S-40 / or 125 A min. - 315 A max. - Fuses Type gG |

#### Standards

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

#### Part number

**821710334**

