



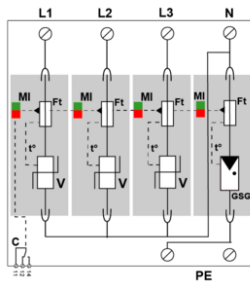
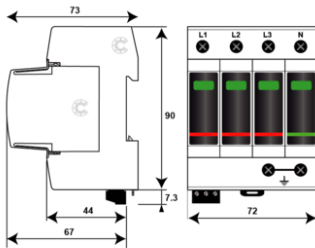
## Type 2 AC surge protector - 3-phase+N

# CITEL

### DAC50S-31-320



- Type 2 AC surge protector
- In: 20 kA
- Imax: 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  | 230/400 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  | Imax 50 kA                      |
| Total Maximum discharge current max. total withstand @ 8/20 μs   | Imax Total 50 kA                |
| 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   | Iscrc 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>  |
| 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)                           | MDAC50-320+MDAC50G-320                     |
| 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                                    | 0.347 kg                                   |

#### Disconnectors

|                                   |  |
|-----------------------------------|--|
| Thermal disconnector              | 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        | ÖVE / UL                                 |

#### Part number

821110344

