



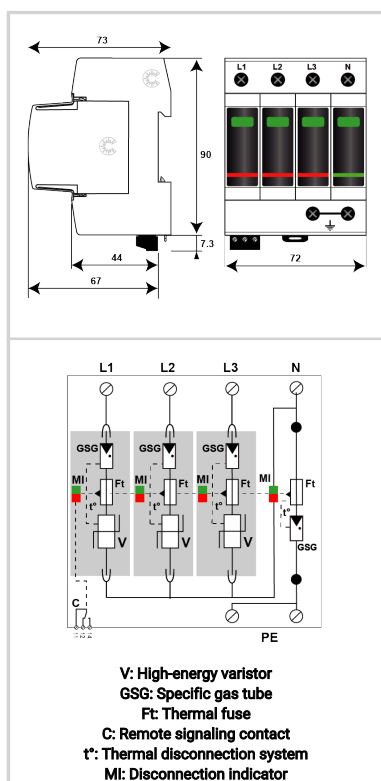
# CITEL

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

### DAC50VGS-31-275



- Type 2 + 3 AC surge protector
- VG Technology
- In : 20 kA
- No leakage current
- Pluggable module for each phase
- Remote signaling
- Optimized to TOV
- EN 61643-11, IEC 61643-11 and UL1449 ed.5 compliance



#### Electrical Characteristics

|                                                                                                             |            |                              |
|-------------------------------------------------------------------------------------------------------------|------------|------------------------------|
| SPD type                                                                                                    | IEC        | 2+3                          |
| Network                                                                                                     |            | 230/400V                     |
| AC system                                                                                                   |            | TT-TNS                       |
| Max. AC operating voltage                                                                                   | Uc         | 275 Vac                      |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br>Without disconnection                              | UT         | 335 Vac withstand            |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br>Without disconnection or with safety disconnection | UT         | 440 Vac withstand            |
| Temporary Over Voltage N/PE (TOV HT)<br>Without disconnection or with safety disconnection                  | UT         | 1200 V/300A/200 ms withstand |
| Residual Current<br>Leakage current to Ground                                                               | Ipe        | None                         |
| Follow current                                                                                              | If         | None                         |
| Nominal discharge current<br>15 x 8/20 $\mu$ s impulses                                                     | In         | 20 kA                        |
| Max. discharge current<br>max. withstand @ 8/20 $\mu$ s by pole                                             | Imax       | 50 kA                        |
| Total Maximum discharge current<br>max. total withstand @ 8/20 $\mu$ s                                      | Imax Total | 50 kA                        |
| Withstand on Combination waveform IEC 61643-11<br>Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s             | Uoc        | 6 kV                         |
| Connection mode(s)                                                                                          |            | L/N and N/PE                 |
| Protection level<br>@ In (8/20 $\mu$ s) and @ 6 kV (1,2/50 $\mu$ s)                                         | Up L/N     | 1.5 kV                       |
| Protection level N/PE<br>@ In (8/20 $\mu$ s) and @ 6 kV (1,2/50 $\mu$ s)                                    | Up N/PE    | 1.5 kV                       |
| Residual voltage L/N at 5 kA<br>@ 5 kA (8/20 $\mu$ s)                                                       | Up-5kA     | 0.7 kV                       |
| Protection level N/PE at 5 kA<br>@ 5 kA (8/20 $\mu$ s)                                                      | Up-5kA     | 0.7 kV                       |
| Admissible short-circuit current                                                                            | Iscrr      | 50 000 A                     |

#### Mechanical Characteristics

|                                           |    |                                                                     |
|-------------------------------------------|----|---------------------------------------------------------------------|
| Technology                                |    | VG Technology (MOV+GSG)                                             |
| 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)                           |    | MDAC50VG-275+MDAC50G-255                                            |
| 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                                    |    | 0.343 kg                                                            |

#### Disconnectors

|                                   |  |                                        |
|-----------------------------------|--|----------------------------------------|
| Thermal disconnector              |  | Internal                               |
| Installation ground fault breaker |  | Type 'S' or delayed                    |
| Back-up protection device         |  | 50 A min. - 160 A max. - Fuses Type gG |

#### Standards

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

#### Part number

**821130244**

