



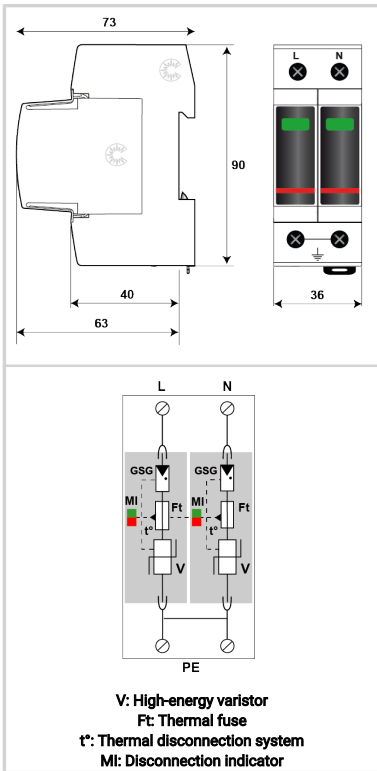
# CITEL

## Type 2 AC surge protector - Single-phase

### DAC50VG-20-320



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



#### Electrical Characteristics

|  |            |                   |
|--|------------|-------------------|
| SPD type   | IEC        | 2+3               |
| Network  |            | 230/400 V         |
| AC system  |            | TN                |
| 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 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 | 100 kA            |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs                         | Uoc        | 6 kV              |
| Connection mode(s)   |            | L/PE and N/PE     |
| Protection level N/PE @ In (8/20μs)  | Up N/PE    | 1.5 kV            |
| Protection level L/PE @ In (8/20μs)  | Up L/PE    | 1.5 kV            |
| Protection level N/PE at 5 kA @ 5 kA (8/20μs)  | Up-5kA     | 0.9 kV            |
| Residual voltage L/PE at 5 kA @ 5 kA (8/20μs)  | Up-5kA     | 0.9 kV            |
| Admissible short-circuit current   | Iscrr      | 50 000 A          |

#### Mechanical Characteristics

|                                   |    |   |
|-----------------------------------|----|---|
| Technology                        |    | VG Technology (MOV+GSG)   |
| SPD configuration                 |    | Single phase  |
| 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-320  |
| Remote signaling of disconnection |    | option DAC50VGS-20-320 : output on changeover contact               |
| Dimensions                        |    | See diagram - 2TE (EN43880)   |
| Weight                            |    | 0.205 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

821130312

