



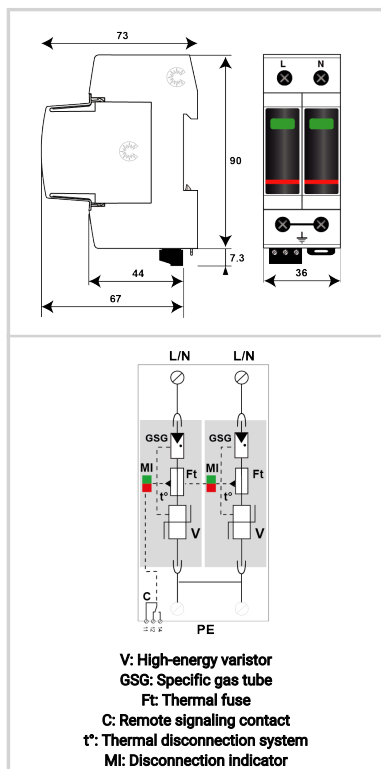
# CITEL

## Type 2 AC surge protector - Single-phase

### DAC50VGS-20-150



- 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                                                                                                  |            | 120/208 V                                                           |
| AC system                                                                                                |            | TN                                                                  |
| 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 withstand                                                   |
| Residual Current Leakage current to Ground                                                               | Ipe        | None                                                                |
| Follow current                                                                                           | If         | None                                                                |
| Nominal discharge current 15 x 8/20 $\mu$ s impulses                                                     | In         | 20 kA                                                               |
| Max. discharge current max. withstand @ 8/20 $\mu$ s by pole                                             | Imax       | 50 kA                                                               |
| Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s                                      | Imax Total | 100 kA                                                              |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s             | Uoc        | 6 kV                                                                |
| Connection mode(s)                                                                                       |            | L/PE and N/PE                                                       |
| Protection level N/PE @ In (8/20 $\mu$ s)                                                                | Up N/PE    | 1.5 kV                                                              |
| Protection level L/PE @ In (8/20 $\mu$ s)                                                                | Up L/PE    | 1.5 kV                                                              |
| Protection level N/PE at 5 kA @ 5 kA (8/20 $\mu$ s)                                                      | Up-5kA     | 0.4 kV                                                              |
| Residual voltage L/PE at 5 kA @ 5 kA (8/20 $\mu$ s)                                                      | Up-5kA     | 0.4 kV                                                              |
| Admissible short-circuit current                                                                         | Iscsr      | 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-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 - 2TE (EN43880)                                         |
| Disconnectors                                                                                            |            |                                                                     |
| Thermal disconnecter                                                                                     |            | 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                                                                                              |            |                                                                     |
| 821130122                                                                                                |            |                                                                     |

