



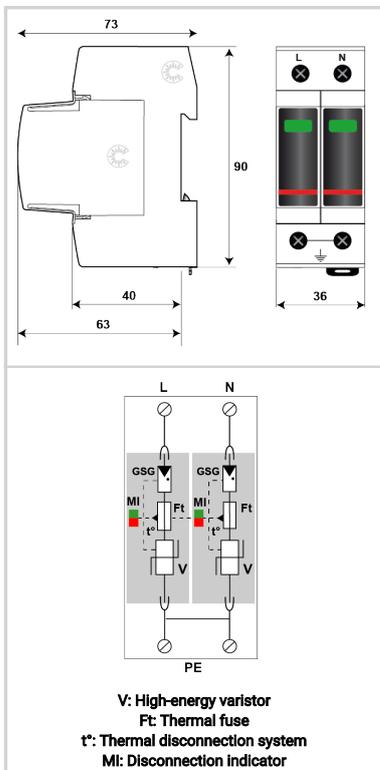
# CITEL

## Type 2 AC surge protector - Single-phase

### DAC50VG-20-150



- 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  |            | 120 V single-phase  |
| 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 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     | 0.4 kV  |
| Residual voltage L/PE at 5 kA @ 5 kA (8/20μs)  | Up-5kA     | 0.4 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-150  |
| Remote signaling of disconnection  |            | option DAC50VGS-20-150 : output on changeover contact               |
| Dimensions   |            | See diagram - 2TE (EN43880)   |
| 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  |            |   |
| <b>821130112</b>   |            |   |

