



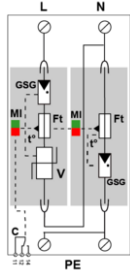
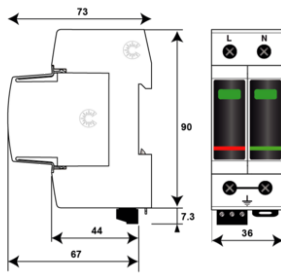
## Type 2 AC surge protector - Single-phase

# CITEL

## DAC50VGS-11-320



- 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



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+3                          |
| Network  |            | 230 V single-phase           |
| AC system  |            | TT-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            |
| 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                        |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs                         | Uoc        | 6 kV                         |
| Connection 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     | 0.9 kV                       |
| Protection level N/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 + 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 - 2TE (EN43880)   |
| Weight                                    |    | 0.182 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

|             |  |           |
|-------------|--|-----------|
| Part number |  | 821130342 |
|-------------|--|-----------|

