



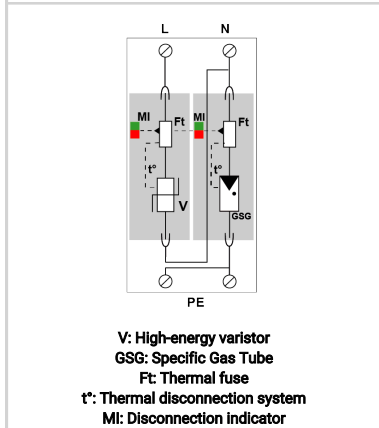
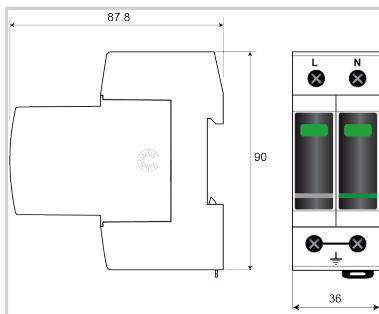
# CITEL

## Type 1+2 AC surge protector single-phase

### DAC1-13-11-320



- Type 1 + 2 AC multipolar surge protector
- In : 20 kA
- Iimp: 12.5 kA
- Pluggable module for each phase
- Remote signaling (option)
- EN 61643-11, IEC 61643-11 certified
- UL1449 ed.5 compliance



| Electrical Characteristics   |            |   |
|--|------------|---|
| SPD type   | IEC        | 1+2   |
| Network  |            | 230/400 V   |
| 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 disconnection   |
| 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 | 100 kA  |
| Impulse current by pole max. withstand 10/350 μs by pole   | Iimp       | 12.5 kA   |
| Impulse current N/PE max. withstand 10/350 μs  | Iimp N /PE | 50 kA   |
| Total lightning current max. total withstand @ 10/350 μs   | Itotal     | 25 kA   |
| Specific energy by pole max. withstand 10/350 μs   | W/R        | 40 kJ/ohm   |
| Protection mode(s)   |            | L/N and N/PE  |
| Protection level @ In (8/20 μs) and @ 6 kV (1,2/50 μs)   | Up L/N     | 1.6 kV  |
| Protection level N/PE @ In (8/20 μs) and @ 6 kV (1,2/50 μs)  | Up N/PE    | 1.5 kV  |
| Residual voltage L/N at 5 kA @ 5 kA (8/20 μs)  | Up-5kA     | 1.2 kV  |
| Protection level N/PE at 5 kA @ 5 kA (8/20 μs)   | Up-5kA     | 1.2 kV  |
| Admissible short-circuit current   | Iscrr      | 50 000 A  |
| Mechanical Characteristics   |            |   |
| Technology   |            | MOV+GDT   |
| SPD configuration  |            | Single phase  |
| Connection to Network  |            | By screw terminals: 2.5-25mm² (35mm² 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)  |            | MDAC1-13-320 + MDAC1-25G-xxx  |
| Remote signaling of disconnection  |            | option : DAC1-13S-11-320 : output on changeover contact                 |
| Dimensions   |            | See diagram - 2TE (EN43880)   |
| Weight   |            | 0.278 kg  |
| Disconnectors  |            |   |
| Thermal disconnector   |            | Internal  |
| Installation ground fault breaker  |            | Type 'S' or delayed   |
| Back-up protection device  |            | Fuse assembly: SFD1-13S-20 / or 125 A min. - 315 A max. - Fuses Type gG |
| Standards  |            |   |



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### DAC1-13-11-320

|                      |  |
|----------------------|--|
| Standards compliance | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification        | KEMA                                     |
| <b>Part number</b>   |  |
| <b>821710332</b>     |  |

