



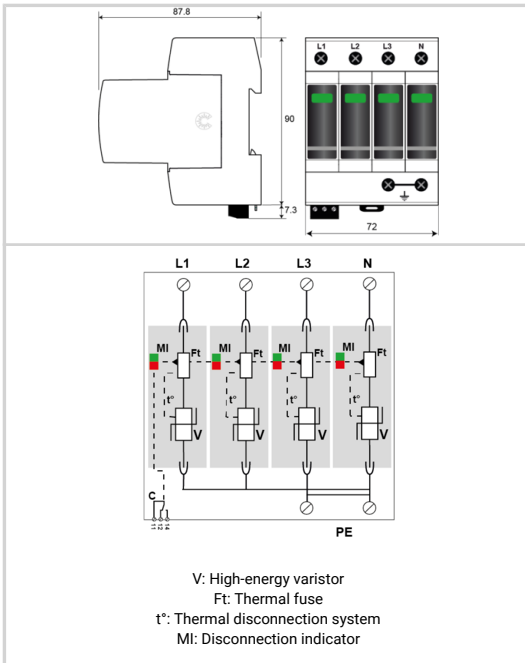
## Type 1+2 AC surge protector - 3-phase+N

# CITEL

## DAC1-13S-40-320



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



| Electrical Characteristics   |            |   |
|--|------------|---|
| SPD type   |            | 1+2   |
| Network  |            | 230/400 V 3-phase+N   |
| AC system  |            | TNS   |
| 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   |
| Residual Current Leakage current to Ground   | Ipe        | < 1 mA  |
| 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 | 200 kA  |
| Impulse current by pole max. withstand 10/350 μs by pole   | Iimp       | 12.5 kA   |
| Total lightning current max. total withstand @ 10/350 μs   | Itotal     | 50 kA   |
| Specific energy by pole max. withstand 10/350 μs   | W/R        | 40 kJ/ohm   |
| Protection mode(s)   |            | L/PE and N/PE   |
| Protection level N/PE @ In (8/20 μs)   | Up N/PE    | 1.6 kV  |
| Protection level L/PE @ In (8/20 μs)   | Up L/PE    | 1.6 kV  |
| Protection level N/PE at 5 kA @ 5 kA (8/20 μs)   | Up-5kA     | 1.2 kV  |
| Residual voltage L/PE at 5 kA @ 5 kA (8/20 μs)   | Up-5kA     | 1.2 kV  |
| Admissible short-circuit current   | Iscrc      | 50 000 A  |
| Mechanical Characteristics   |            |   |
| Technology   |            | MOV   |
| SPD configuration  |            | 3-phase+Neutral   |
| 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)  |            | MDAC1-13-320  |
| 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 - 4TE (EN43880)   |
| Disconnectors  |            |   |
| Thermal disconnector   |            | Internal  |
| Installation ground fault breaker  |            | Type 'S' or delayed   |
| Back-up protection device  |            | Fuse assembly: SFD1-13S-40 / or 125 A min. - 315 A max. - Fuses Type gG |
| Standards  |            |   |
| Standards compliance   |            | IEC 61643-11 / EN 61643-11 / UL1449 ed.5                                |
| Certification  |            | KEMA  |
| Part number  |            |   |
| 821710324  |            |   |

