



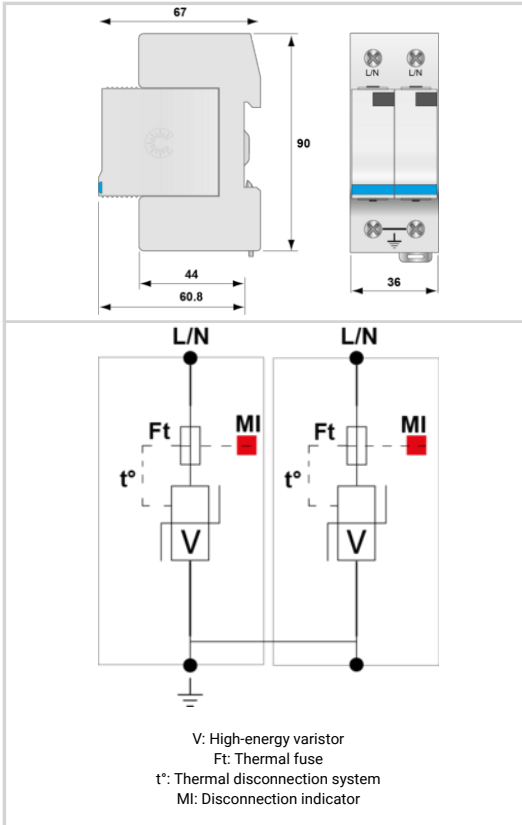
# Type 2 (or 3) AC surge protector - Single-phase

# CITEL

## DS12-120



- Discover our latest innovation : the [DAC15C-20-150](#)
- Type 2 (or 3) AC Multipolar surge protector
- In : 5 kA
- I<sub>max</sub> total: 20 kA
- Pluggable module by phase
- Remote signaling option
- EN 61643-11, IEC 61643-11, UL1449 ed.5 compliance



| Electrical Characteristics   |  |
|--|--|
| SPD type   | 2 (or 3)   |
| Network  | 120 V single-phase                                 |
| AC system  | TN   |
| Nominal line voltage   | U <sub>n</sub> 120 Vac                             |
| Max. AC operating voltage  | U <sub>c</sub> 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 disconnection                           |
| Residual Current Leakage current to Ground   | I <sub>pe</sub> < 1 mA                             |
| Follow current   | I <sub>f</sub> None                                |
| Nominal discharge current 15 x 8/20 μs impulses  | I <sub>n</sub> 5 kA                                |
| Max. discharge current max. withstand @ 8/20 μs by pole  | I <sub>max</sub> 10 kA                             |
| Total Maximum discharge current max. total withstand @ 8/20 μs   | I <sub>max</sub> Total 20 kA                       |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs                         | U <sub>oc</sub> 10 kV                              |
| Withstand on overvoltages IEEE C62.41.1  | 10 kV  |
| Connection mode(s)   | L/PE and N/PE                                      |
| Protection mode(s)   | Common mode  |
| Protection level L/PE @ I <sub>n</sub> (8/20μs)  | U <sub>p</sub> L/PE 0.6 kV                         |
| Admissible short-circuit current   | I <sub>sc</sub> 25 000 A                           |
| Mechanical Characteristics   |  |
| Technology   | MOV  |
| SPD configuration  | Single phase                                       |
| Connection to Network  | By screw terminals: 2.5-25mm <sup>2</sup> / by bus |
| Format   | Plug-in modular box                                |
| Mounting   | Symmetrical rail 35 mm (EN 60715)                  |
| Housing material   | Thermoplastic UL94 V-0                             |
| Operating temperature  | T <sub>u</sub> -40/+85°C                           |
| Protection rating  | IP20   |
| Failsafe mode  | Disconnection from AC network                      |
| Disconnection indicator  | 1 mechanical indicator by pole                     |
| Spare module(s)  | DSM10-120  |
| Remote signaling of disconnection  | option DS12S-120 : output on changeover contact    |
| Dimensions   | See diagram  |
| Weight   | 0.184 kg   |
| Disconnectors  |  |
| Thermal disconnector   | Internal   |
| Installation ground fault breaker  | Type 'S' or delayed                                |
| Back-up protection device  | 20 A min. - 125 A max. - Fuses type gG             |
| Standards  |  |
| Standards compliance   | IEC 61643-11 / EN 61643-11 / UL1449 ed.5           |
| Certification  | UL Recognized                                      |
| Part number  |  |
| 471601   |  |

