



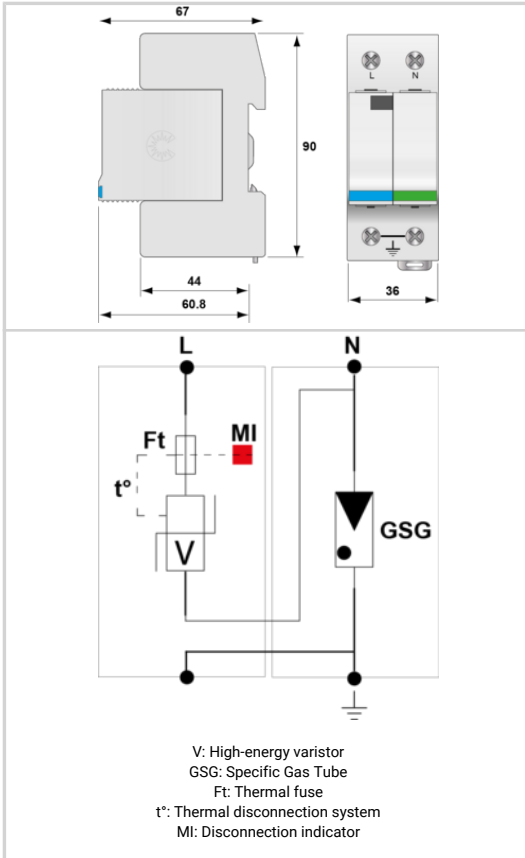
## Type 2 (or 3) AC surge protector - Single-phase

# CITEL

## DS12-120/G



- ↳ Discover our latest innovation : the [DAC15C-11-150](#)
- ↳ 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   | IEC                    | 2 (or 3)   |
| Network  |                        | 120 V single-phase                                 |
| AC system  |                        | TT-TN  |
| Nominal line voltage   | Un                     | 120 Vac  |
| Max. AC operating voltage  | Uc                     | 150 Vac  |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br><i>Without disconnection</i>                              | UT                     | 180 Vac withstand                                  |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br><i>Without disconnection or with safety disconnection</i> | UT                     | 230 Vac disconnection                              |
| Temporary Over Voltage N/PE (TOV HT)<br><i>Without disconnection or with safety disconnection</i>                  | UT                     | 1200 V/300A/200 ms withstand                       |
| Residual Current   | I <sub>pe</sub>        | None   |
| Leakage current to Ground  |                        |  |
| Follow current   | I <sub>f</sub>         | None   |
| Nominal discharge current<br><i>15 x 8/20 μs impulses</i>  | I <sub>n</sub>         | 5 kA   |
| Max. discharge current<br><i>max. withstand @ 8/20 μs by pole</i>  | I <sub>max</sub>       | 10 kA  |
| Total Maximum discharge current<br><i>max. total withstand @ 8/20 μs</i>   | I <sub>max</sub> Total | 20 kA  |
| Withstand on Combination waveform IEC 61643-11<br><i>Class III test: 1.2/50μs - 8/20μs</i>                         | U <sub>oc</sub>        | 10 kV  |
| Withstand on overvoltages IEEE C62.41.1  |                        | 10 kV  |
| Connection mode(s)   |                        | L/N and N/PE                                       |
| Protection mode(s)   |                        | Common/Differential mode                           |
| Protection level L/N<br><i>@ I<sub>n</sub> (8/20μs)</i>  | U <sub>p</sub> L/N     | 0.6 kV   |
| Protection level N/PE<br><i>@ I<sub>n</sub> (8/20μs)</i>   | U <sub>p</sub> N/PE    | 1.5 kV   |
| Admissible short-circuit current   | I <sub>sc</sub>        | 25 000 A   |
| Mechanical Characteristics   |                        |  |
| Technology   |                        | MOV+GDT  |
| 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 + DSM40G-600                             |
| Remote signaling of disconnection  |                        | option DS12S-120/G : output on changeover contact  |
| Dimensions   |                        | See diagram  |
| Weight   |                        | 0.174 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  |                        |  |
| 471611   |                        |  |

