



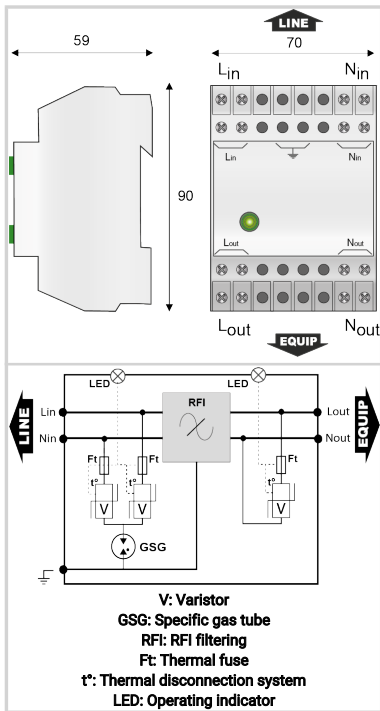
# CITEL

## Type 2+3 single-phase surge protector and filter - 120 V

### DS-HF-120



- Surge protector with RFI filtering
- In : 3 kA
- Imax : 10 kA
- Common and Differential mode protection
- Low protection level
- Operating/disconnection indicators
- EN 61643-11, IEC 61643-11, UL1449 ed.5 compliance



| Electrical Characteristics   |            |   |
|--|------------|---|
| SPD type   | IEC        | 2+3                                       |
| Network  |            | 120 V single-phase                        |
| AC system  |            | TT-TN                                     |
| Nominal line voltage   | Un         | 120 Vac                                   |
| Max. AC operating voltage  | Uc         | 150 Vac                                   |
| Max. load current @25°C  | IL         | 16 A                                      |
| 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   | Ipe        | < 1 mA                                    |
| Follow current   | If         | None                                      |
| Nominal discharge current<br>15 x 8/20 μs impulses   | In         | 3 kA                                      |
| Max. discharge current<br>max. withstand @ 8/20 μs by pole   | Imax       | 10 kA                                     |
| Total Maximum discharge current<br>max. total withstand @ 8/20 μs  | Imax Total | 10 kA                                     |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs                         | Uoc        | 10 kV                                     |
| Withstand on overvoltages IEEE C62.41.1  |            | 10 kV                                     |
| RFI Filtering  |            | 0.1 - 30 MHz                              |
| Connection mode(s)   |            | L/N/PE                                    |
| Protection mode(s)   |            | Common/Differential mode                  |
| Protection level<br>@ In (8/20μs)  | Up         | 0.6 kV / 0.5 kV                           |
| Admissible short-circuit current   | Iscrr      | 10 000 A                                  |
| Mechanical Characteristics   |            |   |
| SPD configuration  |            | Single phase                              |
| Connection to Network  |            | By screw terminals: 0.75-4mm <sup>2</sup> |
| 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  |            | Signaling, Green led(s) OFF               |
| Dimensions   |            | See diagram                               |
| Disconnectors  |            |   |
| Thermal disconnector   |            | Internal                                  |
| Installation ground fault breaker  |            | Type 'S' or delayed                       |
| Back-up protection device  |            | Fuses type gG - 20 A max. (if necessary)  |
| Standards  |            |   |
| Standards compliance   |            | IEC 61643-11 / EN 61643-11 / UL1449 ed.5  |
| Certification  |            |   |
| Part number  |            |   |
| <b>77948</b>   |            |   |

