



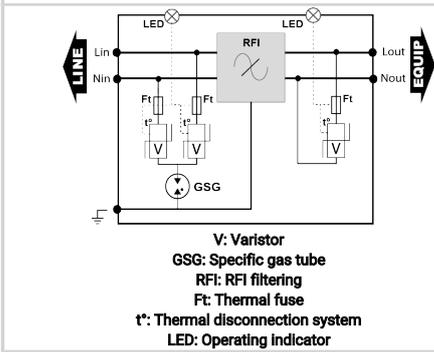
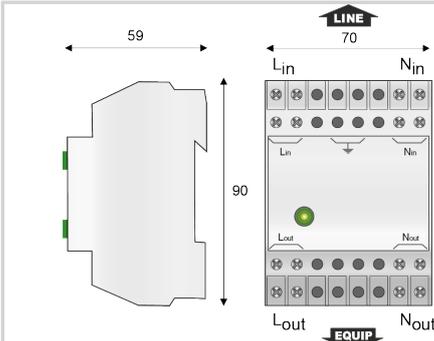
# CITEL



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

### DS-HF

- Surge protector with RFI filtering
- $I_n$  : 3 kA
- $I_{max}$  : 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		230 V single-phase
AC system		TT-TN
Nominal line voltage	Un	230 Vac
Max. AC operating voltage	Uc	255 Vac
Max. load current @25°C	IL	16 A
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 $\mu$ s impulses	In	3 kA
Max. discharge current max. withstand @ 8/20 $\mu$ s by pole	I <sub>max</sub>	10 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	I <sub>max</sub> Total	10 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s	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 @ In (8/20 $\mu$ s)	Up	1 kV / 0.8 kV
Admissible short-circuit current	Iscsr	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		Green LED(s) OFF
Dimensions		See diagram
Weight		0.236 kg

#### 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

**77945**

