



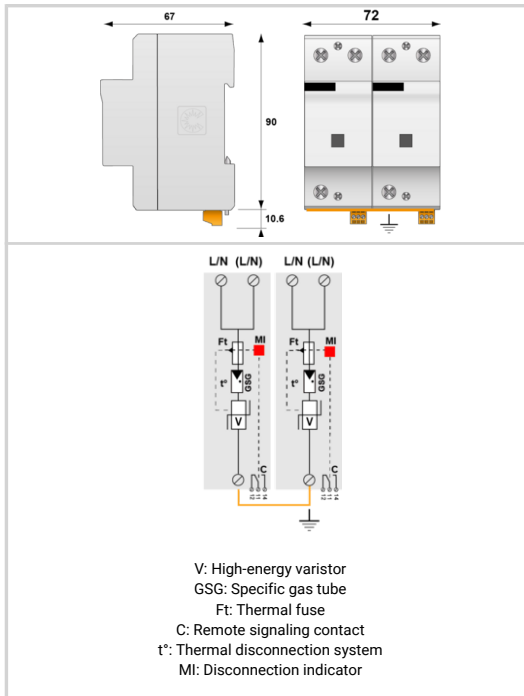
Type 1+2+3 AC surge protector - Single phase

CITEL

DS252VG-120



- Type 1+2+3 unipolar surge protector
- 25 kA on 10/350µs impulse
- Low voltage Up
- Internal disconnection, status indicator and remote signaling
- Optimized to TOV
- IEC 61643-11 and UL1449 ed.5 compliance



Electrical Characteristics	
SPD type	1+2+3
Network	120 V single-phase
AC system	TN
Nominal line voltage	Un 120 Vac
Max. AC operating voltage	Uc 150 Vac
Max. load current <i>if series connection</i>	IL 100 A
Temporary Over Voltage (TOV) Characteristics - 5 sec. <i>Without disconnection</i>	UT 180 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn <i>Without disconnection or with safety disconnection</i>	UT 230 Vac withstand
Residual Current <i>Leakage current to Ground</i>	Ipe None
Follow current	If None
Nominal discharge current <i>15 x 8/20 µs impulses</i>	In 30 kA
Max. discharge current <i>max. withstand @ 8/20 µs by pole</i>	Imax 70 kA
Impulse current by pole <i>max. withstand 10/350µs by pole</i>	Iimp 25 kA
Total lightning current <i>max. total withstand @ 10/350µs</i>	Itotal 50 kA
Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50µs - 8/20µs</i>	Uoc 20 kV
Withstand on overvoltages IEEE C62.41.1	20 kV
Specific energy by pole <i>max. withstand 10/350 µs</i>	W/R 156 kJ/ohm
Connection mode(s)	L/PE and N/PE
Protection mode(s)	Common mode
Residual voltage <i>@ In (8/20 µs)</i>	Up-in 0.7 kV
Protection level N/PE <i>@ In (8/20µs)</i>	Up N/PE 1 kV
Protection level L/PE <i>@ In (8/20µs)</i>	Up L/PE 1 kV
Admissible short-circuit current	Iscsr 50 000 A
Mechanical Characteristics	
Technology	VG Technology (MOV+GSG)
SPD configuration	Single phase
Connection to Network	By screw terminals: 6-35mm ² / by bus
Format	1-pole modular box assembled
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
Remote signaling of disconnection	Output on changeover contact
Dimensions	See diagram
Weight	0.53 kg
Disconnectors	
Thermal disconnecter	Internal
Installation ground fault breaker	Type 'S' or delayed
Back-up protection device	Fuse assembly: SFD1-25-20S / or Fuses Type gG 315 A
Standards	
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification	UL Recognized
Part number	
3950	





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