



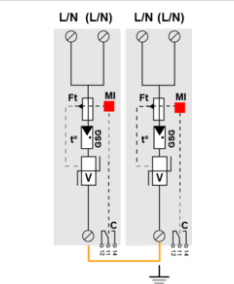
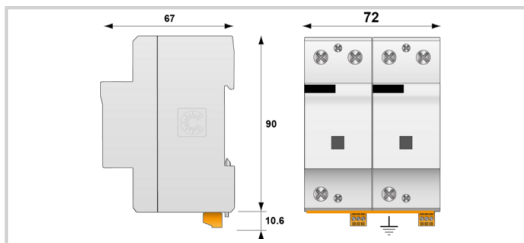
Type 1+2+3 AC surge protector - Single phase

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



V: High-energy varistor
 GSG: Specific gas tube
 Ft: Thermal fuse
 C: Remote signaling contact
 t*: Thermal disconnection system
 MI: Disconnection indicator

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 if series connection	IL	100 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 withstand
Residual Current Leakage current to Ground	Ipe	None
Follow current	If	None
Nominal discharge current 15 x 8/20 µs impulses	In	30 kA
Max. discharge current max. withstand @ 8/20 µs by pole	Imax	70 kA
Impulse current by pole max. withstand 10/350µs by pole	Iimp	25 kA
Total lightning current max. total withstand @ 10/350µs	Itotal	50 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs	Uoc	20 kV
Withstand on overvoltages IEEE C62.41.1		20 kV
Specific energy by pole max. withstand 10/350 µs	W/R	156 kJ/ohm
Connection mode(s)		L/PE and N/PE
Protection mode(s)		Common mode
Residual voltage @ In (8/20 µs)	Up-in	0.7 kV
Protection level N/PE @ In (8/20µs)	Up N/PE	1 kV
Protection level L/PE @ In (8/20µs)	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 disconnector		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





CITEL

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

DS252VG-120

