



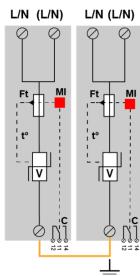
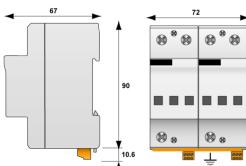
CITEL

Type 1+2 AC surge protector single-phase

DS252E-120



- Type 1 + 2 unipolar surge protector
- Impulse total: 50 kA (10/350 μ s impulse)
- Imax: 140 kA (8/20 μ s impulse)
- Internal disconnections, status indicators
- Remote signaling
- IEC 61643-11, EN 61643-11 and UL1449 ed.5 compliance



V: High-energy varistor
Ft: Thermal fuse
C: Remote signal contact
t*: Thermal disconnection contact
MI: Disconnection indicator

Electrical Characteristics

SPD type	IEC	1+2
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 disconnection
Residual Current Leakage current to Ground	Ipe	< 3 mA
Follow current	If	None
Nominal discharge current 15 x 8/20 μ s impulses	In	70 kA
Max. discharge current max. withstand @ 8/20 μ s by pole	Imax	140 kA
Impulse current by pole max. withstand 10/350 μ s by pole	Imp	25 kA
Total lightning current max. total withstand @ 10/350 μ s	Itotal	50 kA
Specific energy by pole max. withstand 10/350 μ s	W/R	156 kJ/ohm
Connection mode(s)		L/PE and N/PE
Protection mode(s)		Common mode
Protection level N/PE @ In (8/20 μ s)	Up N/PE	1 kV
Protection level L/PE @ In (8/20 μ s)	Up L/PE	1 kV
Admissible short-circuit current	Iscrr	50 000 A
Mechanical Characteristics		
Technology		MOV
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		3 mechanical indicators by pole
Remote signaling of disconnection		Output on changeover contact
Dimensions		See diagram
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		
Part number		3951

