



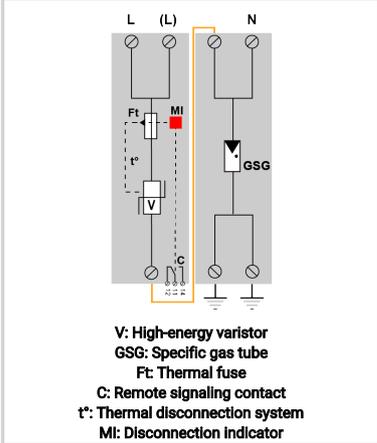
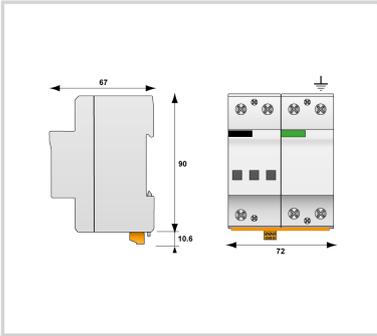
# CITEL



## Type 1+2 AC surge protector single-phase

### DS252E-120/G

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



Electrical Characteristics		
SPD type	IEC	1+2
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 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
Temporary Over Voltage N/PE (TOV HT) Without disconnection or with safety disconnection	UT	1200 V/300A/200 ms withstand
Residual Current Leakage current to Ground	Ipe	None
Follow current	If	None
Nominal discharge current 15 x 8/20 µs impulses	In	70 kA
Max. discharge current max. withstand @ 8/20 µs by pole	I <sub>max</sub>	140 kA
Impulse current by pole max. withstand 10/350µs by pole	I <sub>imp</sub>	25 kA
Total lightning current max. total withstand @ 10/350µs	I <sub>total</sub>	50 kA
Specific energy by pole max. withstand 10/350 µs	W/R	156 kJ/ohm
Connection mode(s)		L/N and N/PE
Protection mode(s)		Common mode
Protection level L/N @ In (8/20µs)	Up L/N	1 kV
Protection level N/PE @ In (8/20µs)	Up N/PE	1.5 kV
Admissible short-circuit current	I <sub>sc</sub>	50 000 A
Mechanical Characteristics		
Technology		MOV
SPD configuration		Single phase
Connection to Network		By screw terminals: 6-35mm <sup>2</sup> / 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		SFD1-25S-11 / or Fuses Type gG 315 A
Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification		
Part number		
<b>3904</b>		

