



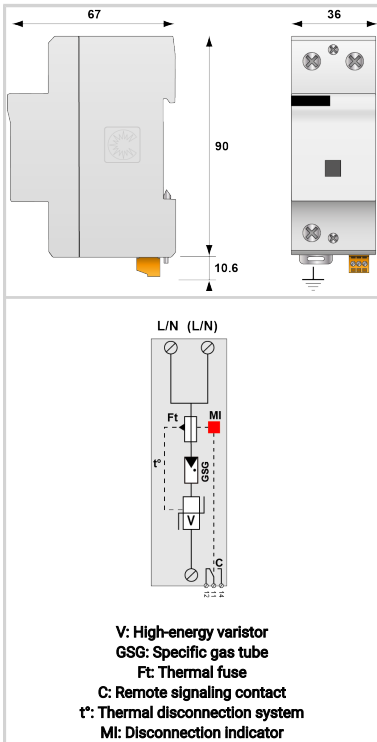
CITEL



Type 1+2 AC surge protector - 1-pole

DS250VG-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	IEC	1+2+3
Network		120/208 V
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>	I _{max}	70 kA
Impulse current by pole <i>max. withstand 10/350µs by pole</i>	I _{imp}	25 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/N or L/PE
Protection mode(s)		Common Mode or Differential Mode
Protection level <i>@ In (8/20µs) and @ 6 kV (1,2/50 µs)</i>	Up	1 kV
Residual voltage <i>@ In (8/20 µs)</i>	Up-in	0.7 kV
Residual voltage at 5 kA <i>@ 5 kA (8/20µs)</i>	Up-5kA	0.4 kV
Admissible short-circuit current	I _{sc}	50 000 A

Mechanical Characteristics

Technology		VG Technology (MOV+GSG)
SPD configuration		2-poles
Connection to Network		By screw terminals: 6-35mm ² / by bus
Format		1-pole 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		1 mechanical indicator
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		CITEL series SFD1-25S - Fuses type gG - 315 A

Standards

Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification		UL

Part number



CITEL

Type 1+2 AC surge protector - 1-pole

DS250VG-120

2787

