



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

CITEL

DS252VG-120/G



- 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
<p>V: High-energy varistor GSG: Specific gas tube Ft: Thermal fuse C: Remote signaling contact t*: Thermal disconnection system MI: Disconnection indicator</p>	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 <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
	Temporary Over Voltage N/PE (TOV HT) <i>Without disconnection or with safety disconnection</i>	UT 1200 V/300A/200 ms 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/N and N/PE
Protection mode(s)	Common/Differential mode	
Residual voltage <i>@ In (8/20 µs)</i>	Up-in 0.7 kV	
Protection level L/N <i>@ In (8/20µs)</i>	Up L/N 1 kV	
Protection level N/PE <i>@ In (8/20µs)</i>	Up N/PE 1.5 kV	
Admissible short-circuit current	Iscrr 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	0.46 kg	
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	UL Recognized	

Part number

3960