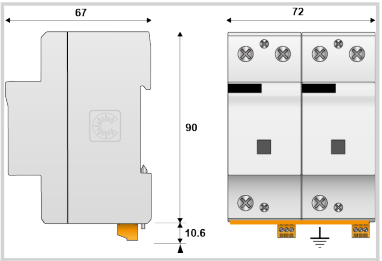
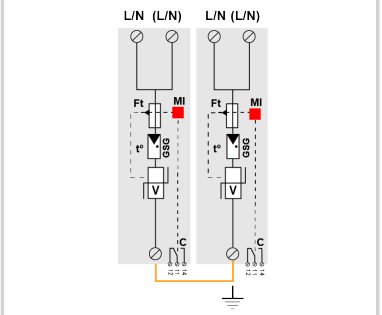
Type 1+2+3 AC surge protector - Single phase

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

CE





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	IEC	1+2+3
Network		120/208 V
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	Isccr	50 000 A
Mechanical Characteristics		
Technology		VG Technology (MOV+GSG)
SPD configuration		Single phase
Connection to Network		By screw terminals: 6-35mm² / 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
Part number		
3950		