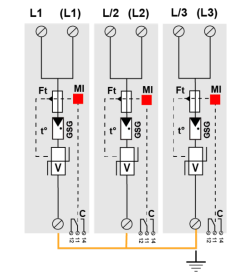
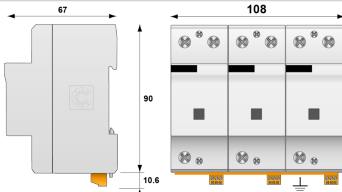


DS253VG-120



- 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



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 3-phase	
AC system		TNC	
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	75 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	
Protection mode(s)		Common mode	
Residual voltage @ In (8/20 µs)	Up-in	0.7 kV	
Protection level L/PE @ In (8/20µs)	Up L/PE	1 kV	
Admissible short-circuit current	Iscrr	50 000 A	
Mechanical Characteristics			
Technology		VG Technology (MOV+GSG)	
SPD configuration		3-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		1 mechanical indicator 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: SFD1-25-30S / or Fuses Type gG 315 A	
Standards			
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5	
Certification		UL Recognized	
Part number			
3959			

