

DS254VG-300



- 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	
Network	230/400 V 3-phase+N	
AC system	TNS	
Nominal line voltage	Un	230/400 Vac
Max. AC operating voltage	Uc	255 Vac
Max. load current if series connection	IL	100 A
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	UT	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	UT	440 Vac withstand
Residual Current Leakage current to Ground	Ipe	None
Follow current	If	None
Nominal discharge current $15 \times 8/20 \mu\text{s impulses}$	In	30 kA
Max. discharge current max. withstand @ $8/20 \mu\text{s by pole}$	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	100 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/Differential mode	
Residual voltage @ In (8/20 µs)	Up-in	1.1 kV
Protection level N/PE @ In (8/20µs)	Up N/PE	1.5 kV
Protection level L/PE @ In (8/20µs)	Up L/PE	1.5 kV
Admissible short-circuit current	Isccr	50 000 A
Mechanical Characteristics		
Technology	VG Technology (MOV+GSG)	
SPD configuration	3-phase+Neutral	
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	
Disconnectors		
Thermal disconnector	Internal	
Installation ground fault breaker	Type 'S' or delayed	
Back-up protection device	Fuse assembly: SFD1-25-40S / or Fuses Type gG 315 A	
Standards		
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5	
Certification	UL Recognized	
Part number		
3713		

