Data Sheet

Type 1 + 2 + 3 AC Surge Protector

DS250VG series

Iimp 25 kA

DS253VG-300

DS250VG-300

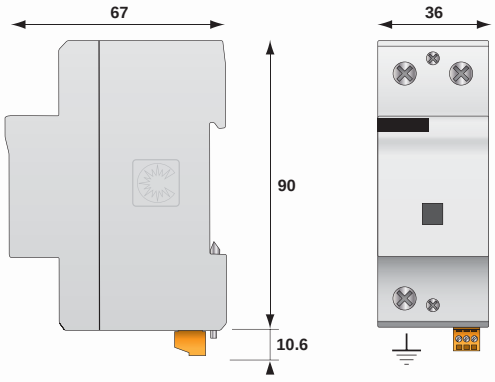
- **25 kA on 10/350 µs impulse**
- **Low voltage Up**
- **Internal disconnection, status indicator and remote signaling**
- **Optimized to TOV**
- **IEC 61643-11 and EN 61643-11 compliance**
  UL 1449 ed. 3 recognition
- **VDE approved**

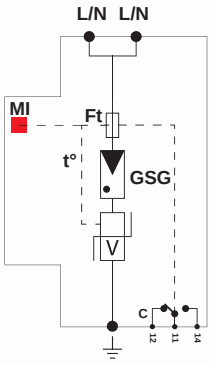
DS25x VG-xxx/G

- « » = CT1 configuration (common mode)
- «G» = CT2 configuration (common and diferential mode)
- Operating voltage
- «VG» = VG Technology
- Number of protected poles (1,2,3,4)

Dimensions - Electrical Diagram

(in mm)





V : High energy varistor network
G : Heavy duty gas Tube
Ft : Thermal fuse
C : Remote signaling contact
t° : Thermal disconnection system
MI : Disconnection indicator

Characteristics

CITEL part number		DS250VG-300	DS250VG-120
AC Network		230/400V	120/208V
Connection mode		L/N, L/PE	L/N, L/PE
AC system		TT, TN	TT, TN
Max operating voltage	Uc	255 Vac	150 Vac
TOV withstand	UT	450 vac	230 Vac
Operating current Leakage current at Uc	Ic	none	none
Follow current	If	none	none
Nominal discharge current 15 x 8/20 µs impulses	In	30kA	30 kA
Maximal discharge current max. withstand @ 8/20 µs	Imax	70 kA	70 kA
Max. lightning current by pole max. withstand @ 10/350 µs	Iimp	25 kA	25 kA
Combination waveform test Class III test	Uoc	20 kV	20 kV
Residual voltage (at In)	Up-in	1.1 kV	0.7 kV
Protection level (at 6kV - 1,2/50µs)	Up	1.5 kV	1 kV
Admissible short-circuit current	Isccr	50000 A	50000 A
Associated disconnection devices			
Thermal disconnector		internal	
Fuses		Fuse type gG - 125 A max. (see Note 1)	
Installation ground fault breaker		Type «S» or delayed	
Mechanical characteristics			
Dimensions		see diagram	
Connection		by screw terminals : 6-35 mm² / by bus	
Disconnection indicator		1 mechanical indicator	
Remote signaling of disconnection		output on changeover contact	
Mounting		symmetrical rail 35 mm	
Operating temperature		-40/+85 °C	
Protection class		IP20	
Housing material		Thermoplastic UL 94-V0	
Standards compliance			
IEC 61643-11	International	Low Voltage SPD - Test Class I, II and III	
EN 61643-11	Europe	Low Voltage SPD - Test Class I, II and III	
NF EN 61643-11	France	Parafoudre Basse Tension - Essais Classe I, II, III	
UL1449 ed.3	USA	Low Voltage TVSS	
Part Number			
DS250VG-300		2577	
DS250VG-120		2787	

Note 1: Rating in compliance with nominal discharge current. In order to increase service continuity, higher rating can be used (up to 250 A). For further information, please consult product instructions.

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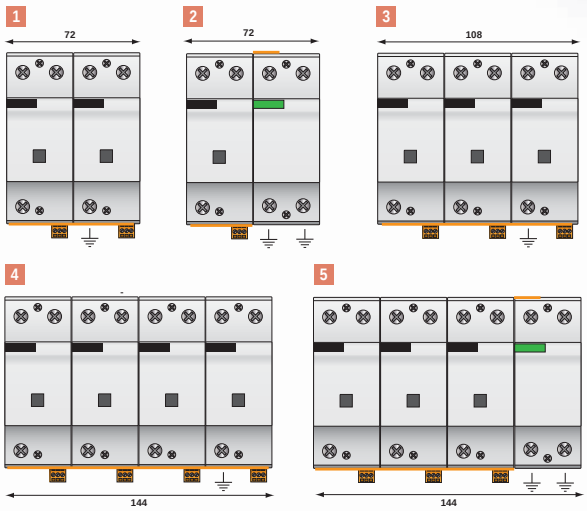
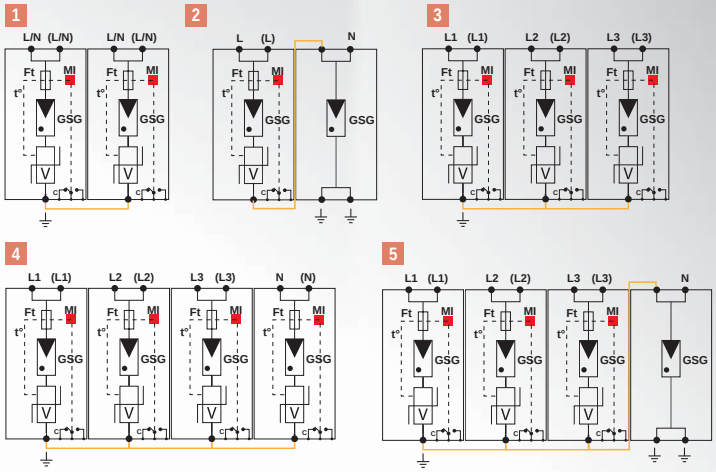
Data Sheet

Type 1 + 2 + 3 Multipolar Surge Protector

DS252VG, DS253VG, DS254VG

Dimensions - Diagram





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Characteristics

References	Part number	Network	AC system	Protection mode		Iimp total	Up L/PE	Up L/N	Diagram
				common	diferential				
DS254VG-300/G	2756	230/400 V 3-phase+N	TT-TNS	●	●	100 kA	1.5 kV	1.5 kV	5
DS254VG-120/G	2757	120/208 V 3-phase+N	TT-TNS	●	●	100 kA	1.5 kV	1 kV	
DS254VG-300	3713	230/400 V 3-phase+N	TNS	●		100 kA	1.5 kV	-	4
DS254VG-120	3722	120/208 V 3-phase+N	TNS	●		100 kA	1 kV	-	
DS253VG-300	3896	400 V 3-phase	TNC	●		75 kA	1.5 kV	-	3
DS253VG-120	3959	208 V 3-phase	TNC	●		75 kA	1 kV	-	
DS252VG-300/G	3403	230 V single phase	TT-TN	●	●	50 kA	1.5 kV	1.5 kV	2
DS252VG-120/G	3960	120 V single phase	TT-TN	●	●	50 kA	1.5 kV	1 kV	
DS252VG-300	3469	230 V single phase	TN	●		50 kA	1.5 kV	-	1
DS252VG-120	3950	120 V single phase	TN	●		50 kA	1 kV	-	

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