

Type 1 + 2 + 3 AC Surge Protector DS250VG Series

**limp
25 kA**

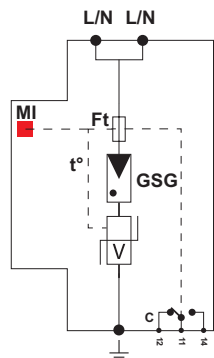
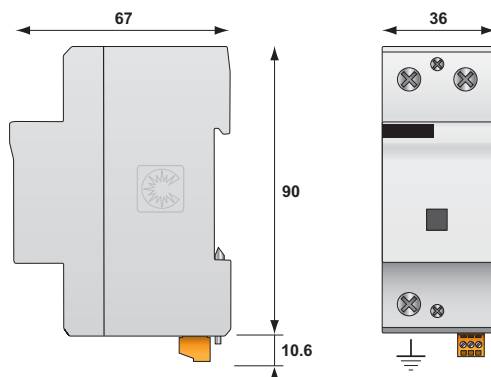


DS250VG-300

- **Type 1 + 2 + 3 AC Power Surge Protector**
- **VG Technology for Maximum Performance**
- **Optimized for TOV Protection**
- **Zero Operating Current**
- **Zero Follow Current**
- **limp : 25 kA at 10/350µs**
- **In : 30 kA at 8/20µs**
- **UL 1449 3rd Edition Recognized**
- **CSA Recognized**

Dimensions and Electrical Diagram

(in mm)



V : High energy varistor
GSG : Gas-Filled Spark Gap
t° : Thermal disconnection system
Ft : Thermal fuse
MI : Disconnection indicator
C : Remote signaling contact

Characteristics

CITEL Part Number		DS250VG-300	DS250VG-120
AC network voltage		220-277 V	120-127 V
SPD configuration		1-pole	1-pole
AC system		All	All
Maximum operating voltage	Mcov	320 Vac	150 Vac
TOV withstand	UT	450 Vac	230 Vac
Operating current	Ic	none	none
Follow current	If	none	none
Nominal discharge current (IEC/UL) 15 x 8/20 µs impulse	In	30 kA / 20 kA	30 kA / 20 kA
Maximum discharge current 8/20 µs withstand	Imax	70 kA	70 kA
Maximum discharge current 10/350 µs withstand	Iimp	25 kA	25 kA
Combination waveform test Class III test	Uoc	20 kV	20 kV
Protection level (at In)	Up	1.1 kV	0.7 kV
Voltage protection rating	Vpr	1200 V	1200 V
Short-circuit current rating	Sccr	100 kA	100 kA
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 3rd Edition: USA		Type 4, for use in Type 1 locations	
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.

Type 1 + 2 + 3 Multi-Pole AC Surge Protector DS252VG, DS253VG, DS254VG

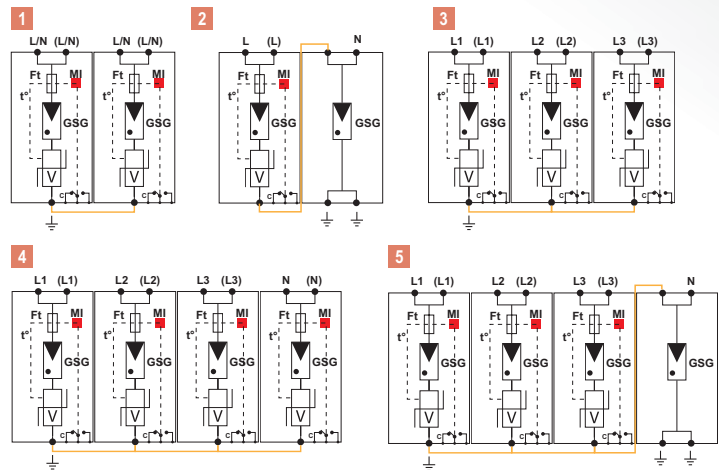
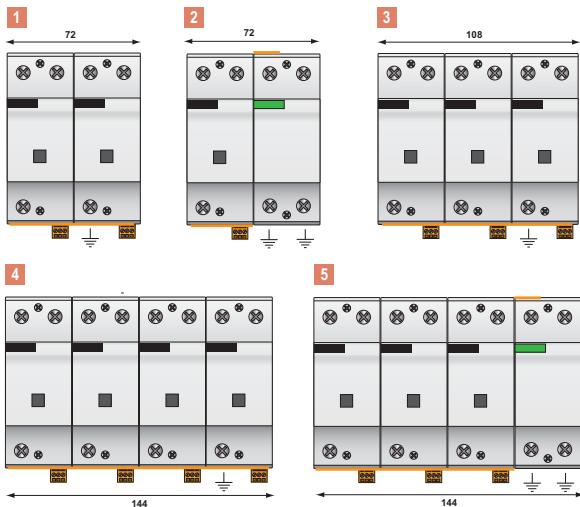


DS253VG-300

DS25x VG-xxx/G

- « » = CT1 Configuration (common mode)
- «G» = CT2 Configuration (common and differential mode)
- Operating voltage (120, 300)
- «VG» = VG Technology
- Number of protected poles (2, 3, 4)

Dimensions and Connection Diagram



References	Part Number	Network	AC system	Protection Mode		Iimp Total	Up L/PE	Up L/N	Diagram
				Common	Differential				
DS254VG-300/G	2756	277/480 V 3-phase+N	Wye	●	●	100 kA	1.5 kV	1.5 kV	5
DS254VG-120/G	2757	120/208 V 3-phase+N	Wye	●	●	100 kA	1.5 kV	1 kV	
DS254VG-300	3713	347/600 V 3-phase+N	Wye	●		100 kA	1.5 kV	-	4
DS254VG-120	3722	120/208 V 3-phase+N	Wye	●		100 kA	1 kV	-	
DS253VG-300	3896	240 V 3-phase	Delta	●		75 kA	1.5 kV	-	3
DS253VG-120	3959	120/240 V 2-phase+N	Split phase	●		75 kA	1 kV	-	
DS252VG-300/G	3403	230 V 1-phase+N	Single phase	●	●	50 kA	1.5 kV	1.5 kV	2
DS252VG-120/G	3960	120 V 1-phase+N	Single phase	●	●	50 kA	1.5 kV	1 kV	
DS252VG-300	3469	230 V 1-phase+N, 2-phase	Single/Split phase	●		50 kA	1.5 kV	-	1
DS252VG-120	3950	120 V 1-phase+N, 2-phase	Single/Split phase	●		50 kA	1 kV	-	