

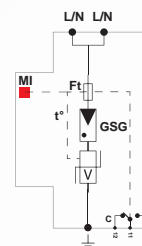
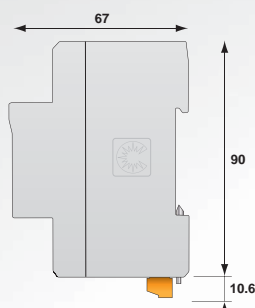
# Type 1 + 2 + 3 AC Surge Protector

## DS250VG series

**Imp**  
**25 kA**



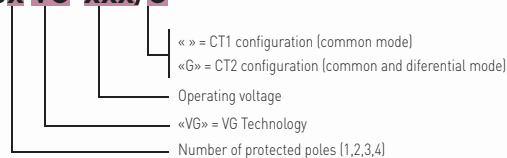
DS250VG-300



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

- Type 1 + 2 + 3 Surge protector
- 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. 4 recognition
- VDE approved

### DS25x VG-xxx/G

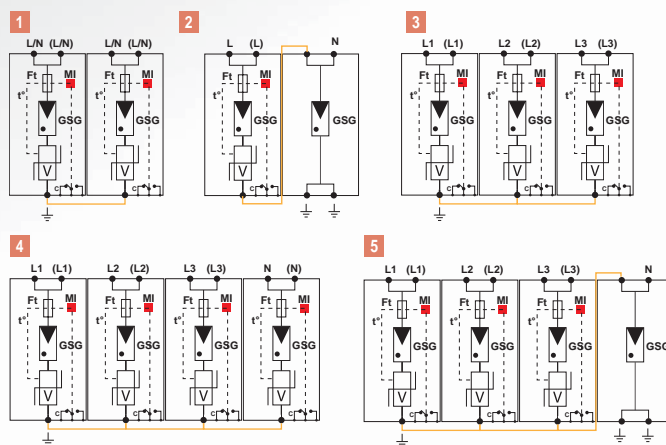
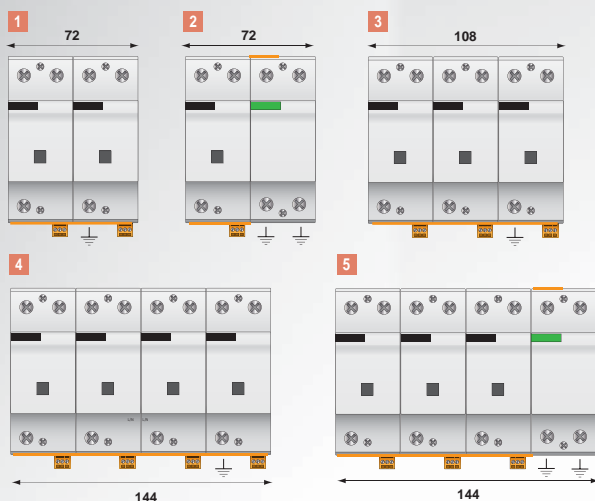


## Characteristics

CITEL Model		DS250VG-400	DS250VG-300	DS250VG-120
Description		Type 1+2+3 AC surge protector one-pole	Type 1+2+3 AC surge protector one-pole	Type 1+2+3 AC surge protector one-pole
Network		230/400 V	230/400 V	120/208V
Connection mode		L/N or L/PE	L/N or L/PE	L/N or L/PE
Max. AC operating voltage	Uc	440 Vac	255 Vac	150 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec.	UT	580 Vac withstand	335 Vac withstand	180 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn	UT	770 Vac withstand	440 Vac withstand	230 Vac withstand
Residual current - Leakage current at Uc	Ipe	None	None	None
Max. Load current (if connection serie)	IL	100 A	100 A	100 A
Follow current	If	None	None	None
Nominal discharge current - 15 x 8/20 µs impulses	In	30 kA	30 kA	30 kA
Max. discharge current -max. withstand @ 8/20 µs by pole	I <sub>max</sub>	70 kA	70 kA	70 kA
Impulse current by pole - max. withstand 10/350µs	I <sub>imp</sub>	25 kA	25 kA	25 kA
Specific energy by pole	W/R	156 kJ/ohm	156 kJ/ohm	156 kJ/ohm
Withstand on Combination waveform - Class III test	Uoc	20 kV	20 kV	20 kV
Protection level @ In	Up-in	1.1 kV	1.1 kV	0.7 kV
Protection level	Up	1.5 kV	1.5 kV	1 kV
Admissible short-circuit current	I <sub>sc</sub>	50000 A	50000 A	50000 A
<b>Associated disconnectors</b>				
Thermal disconnector		internal		
Fuses		Fuses type gG - 315 A		
Installation ground fault breaker		Type "S" or delayed		
<b>Mechanical characteristics</b>				
Dimensions		see diagram		
Connection to Network		By screw terminals : 6-35 mm <sup>2</sup> / by bus		
Disconnection indicator		1 mechanical indicator		
Remote signaling of disconnection		output on changeover contact		
Mounting		Symmetrical rail 35 mm (EN60715)		
Operating temperature		-40/+85°C		
Protection rating		IP20		
Housing material		Thermoplastic UL94-V0		
Standards compliance		IEC 61643-11 / EN 61643-11 / NF EN 61643-11 / UL1449 ed.4		
Certification		GOST	VDE/UL1449ed3/CSA/GOST	GOST
<b>Part number</b>		2578	2577	2787

# Type 1 + 2 + 3 Multipolar Surge Protector

## DS252VG, DS253VG, DS254VG



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



DS253VG-300



Model	P/N	Network	AC system	Protection Mode	I <sub>total</sub>	Up L/PE	Up L/N	Up N/PE	Diagram
DS254VG-300/G	2756	230/400 V 3-phase+N	TT-TNS	L/N and N/PE	100 kA	-	1.5 kV	1.5 kV	5
DS254VG-120/G	2757	120/208 V 3-phase+N	TT-TNS	L/N and N/PE	100 kA	-	1 kV	1.5 kV	
DS254VG-400	2581	230/400 V 3-phase+N	IT	L/PE and N/PE	100 kA	1.5 kV	-	1.5 kV	4
DS254VG-300	3713	230/400 V 3-phase+N	TNS	L/PE and N/PE	100 kA	1.5 kV	-	1.5 kV	
DS254VG-120	3722	120/208 V 3-phase+N	TNS	L/PE and N/PE	100 kA	1 kV	-	1 kV	3
DS253VG-400	2580	230/400 V 3-phase	IT	L/PE	75 kA	1.5 kV	-	-	
DS253VG-300	3896	230/400 V 3-phase	TNC	L/PE	75 kA	1.5 kV	-	-	2
DS253VG-120	3959	120/208 V 3-phase	TNC	L/PE	75 kA	1 kV	-	-	
DS252VG-300/G	3403	230 V single phase	TT-TN	L/N and N/PE	50 kA	-	1.5 kV	1.5 kV	1
DS252VG-120/G	3960	120 V single phase	TT-TN	L/N and N/PE	50 kA	-	1 kV	1.5 kV	
DS252VG-400	2579	230 V single phase	IT	L/PE and N/PE	50 kA	1.5 kV	-	1.5 kV	1
DS252VG-300	3469	230 V single phase	TN	L/PE and N/PE	50 kA	1.5 kV	-	1.5 kV	
DS252VG-120	3950	120 V single phase	TN	L/PE and N/PE	50 kA	1 kV	-	1 kV	