

Type 1 + 2 Surge Protector DS250E series

limp
25 kA

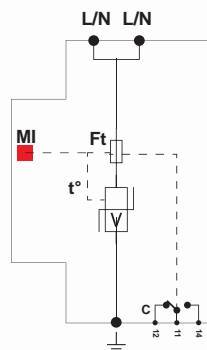
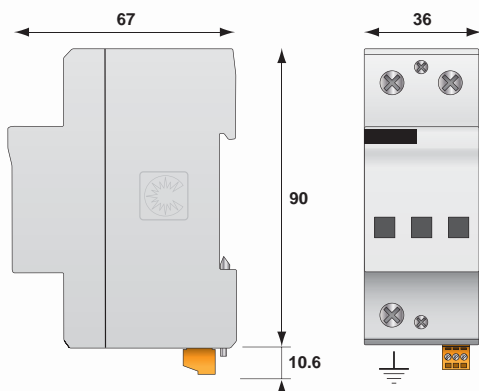


DS250E-300

- **Type 1 + 2 unipolar Surge Protector**
- **limp : 25 kA on 10/350 μ s impulse**
- **I_{max} : 140 kA on 8/20 μ s impulse**
- **Internal disconnections, status indicators and remote signaling**
- **IEC 61643-11, EN 61643-11 and UL1449 ed.3 compliance**

Dimensions - Electrical Diagram

(in mm)



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

Characteristics

CITEC part number	DS250E-400	DS250E-300	DS250E-120
Network	230/400V	230/400V	120/208V
Connection mode	L/PE	L/N	L/N, L/PE
AC system	IT, TT	TT, TN	TT, TN
Max. operating voltage	U _c 440 Vac	330 Vac	150 Vac
TOV withstand	U _{tr} 770 Vac	440 Vac	230 Vac
Operating current	I _c < 2 mA	< 2 mA	< 2 mA
Leakage current at U _c			
Follow current	I _f none	none	none
Nominal discharge current	I _n 50 kA	70 kA	70 kA
15 x 8/20 μ s impulses			
Maximal discharge current	I _{max} 140 kA	140 kA	140 kA
max. withstand @ 8/20 μ s			
Max. lightning current by pole	limp 25 kA	25 kA	25 kA
max. withstand @ 10/350 μ s			
Protection level (at I _n)	U _p 2.5 kV	2.5 kV	1 kV
Admissible short-circuit current	50000 A	50000 A	50000 A

Associated disconnection devices

Thermal disconnecter	internal
Fuses	Fuses type gG - 125 A (see Note 1)
Installation ground fault breaker	Type «S» or delayed

Mechanical characteristics

Dimensions	See diagram
Connection	by screw terminals : 6-35 mm ² / by bus
Disconnection indicator	3 mechanical indicators
Remote signaling of disconnection	output on changeover contact
Mounting	symmetrical rail 35 mm
Operating temperature	-40/+85 °C
Protection class	IP20
Housing material	Thermoplastic UL94-V0

Standards compliance

IEC 61643-11	International	Low Voltage SPD - Test Class I and II
EN 61643-11	Europe	Low Voltage SPD - Test Class I and II
NF EN 61643-11	France	Parafoudre Basse Tension - Essais Classe I et II
UL1449 ed.3	USA	Low Voltage SPD

Part Number

DS250E-400	3731
DS250E-300	2730
DS250E-120	3106

Note 1: Rating in compliance with NF C15-100 art. 534.1.3.5. 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 Multipolar Surge Protector DS252E, DS253E, DS254E

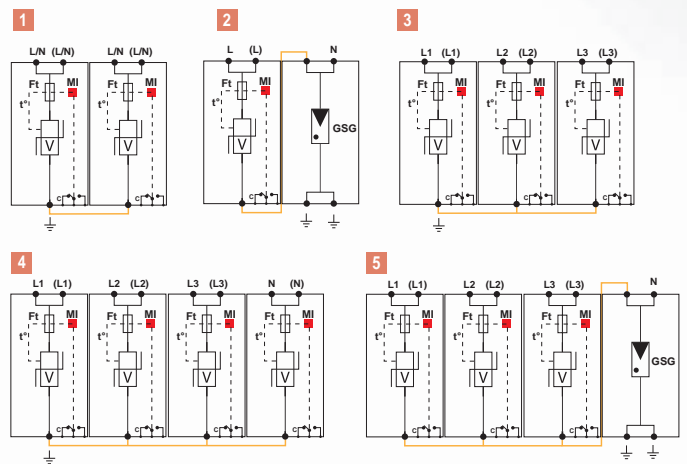
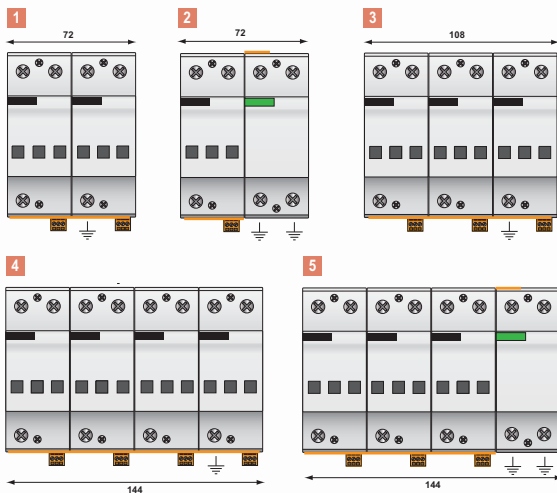


DS25x E-xxx/G

- «x» = Configuration CT1 (common mode)
- «G» = Configuration CT2 (common and differential mode)
- Operating voltage
- «E» = «Varistor» technology
- Number of protected poles (2, 3 or 4)

DS254E-300/G

Dimensions - Diagram



Reference	Part number	Network	AC system	Protection mode		Iimp total	Up L/PE	Up L/N	Diagram
				common	differential				
DS254E-300/G	3411	230/400 V 3-phase+N	TT-TNS	●	●	100 kA	2.5 kV	2.5 kV	5
DS254E-120/G	3831	120/208 V 3-phase+N	TT-TNS	●	●	100 kA	1.5 kV	1 kV	
DS254E-400	3732	230/400 V 3-phase+N	IT-TNS	●		100 kA	2.5 kV	-	4
DS254E-300	3371	230/400 V 3-phase+N	TNS	●		100 kA	2.5 kV	-	
DS254E-120	3961	120/208 V 3-phase+N	TNS	●		100 kA	1 kV	-	3
DS253E-400	3939	400 V 3-phase	IT-TNC	●		75 kA	2.5 kV	-	
DS1253E-300	3350	400 V 3-phase	TNC	●		75 kA	2.5 kV	-	2
DS253E-120	3887	208 V 3-phase	TNC	●		75 kA	1 kV	-	
DS252E-300/G	3404	230 V single phase	TT-TN	●	●	50 kA	2.5 kV	2.5 kV	1
DS252E-120/G	3409	120 V single phase	TT-TN	●	●	50 kA	1.5 kV	1 kV	
DS252E-400	3952	230 V single phase	IT-TN	●		50 kA	2.5 kV	-	1
DS252E-300	3962	230 V single phase	TN	●		50 kA	2.5 kV	-	
DS252E-120	3951	120 V single phase	TN	●		50 kA	1 kV	-	1