

1-phase Type 2 AC power Surge Protector DS215

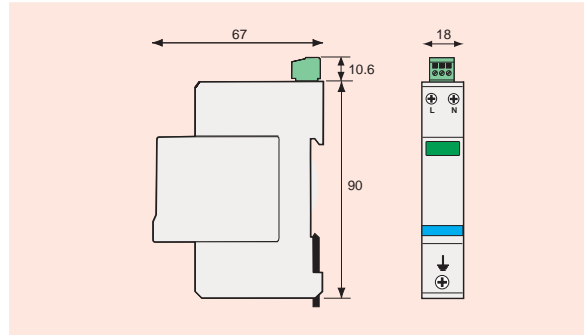


The DS215 Type 2 surge protectors are compact devices designed to protect single phase networks at the main switchboard. They provide a common mode protection. DS215 are available for 230V or 120V AC network and the different distribution systems (TN, TT, IT). This SPD is based on high energy varistor equipped with thermal disconnecter and failure indicator, to comply with standards. Version with a remote signalling for disconnection indication is also available (DS215S). The DS215 is DIN rail compatible and is built with a plug-in module and a fixed base, which allows an easy and fast maintenance.

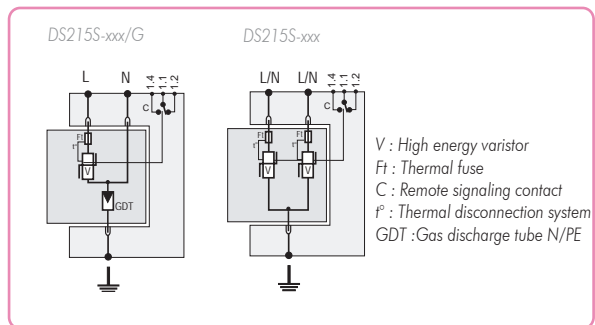
- Compact single-phase Type 2 SPD
- Discharge currents : In : 5 kA / I_{max} : 15 kA
- Common/Differential mode
- Pluggable module
- Remote signalling contact (option)
- IEC 61643-1 and EN 61643-11 compliance

Part number available	Network	Neutral configuration	Protection mode		Remote signalling
			common	differential	
DS215-230/G	230 V Single phase	TT-TN	●	●	
DS215S-230/G	230 V Single phase	TT-TN	●	●	●
DS215-400	230 V Single phase	IT	●		
DS215S-400	230 V Single phase	IT	●		●
DS215-230	230 V Single phase	TN	●		
DS215S-230	230 V Single phase	TN	●		●
DS215-120/G	120 V Single phase	TT-TN	●	●	
DS215S-120/G	120 V Single phase	TT-TN	●	●	●
DS215-120	120 V Single phase	TT-TN	●		
DS215S-120	120 V Single phase	TT-TN	●		●

Dimensions (in mm)



Electrical diagram



Characteristics

CITEL part number	DS215-400	DS215-230/G	DS215-120/G
Single-phase network	230 V	230 V	120 V
Neutral configuration	TT-TN-IT	TN	TN
Max. operating voltage	U _c 400 Vac	255 Vac	150 Vac
Temporary overvoltage withstand	U _T 400 Vac	255 Vac	150 Vac
Operating current	I _c < 1 mA	<< 1 mA	<< 1 mA
Leakage current at U _c			
Protection Mode(s)	MC (2)	MC/MD (2)	MC/MD (2)
Nominal discharge current	I _n 5 kA	5 kA	5 kA
15 x 8/20 μs impulses			
Maximum discharge current	I _{max} 15 kA	15 kA	15 kA
max. withstand 8/20 μs			
Protection level (at I _n)	U _p 1.3 kV	1.5/0.9 kV (2)	1.5/0.6 kV (2)
Residual voltage at 5 kA	1.3 kV	0.9 kV	0.6 kV
Admissible short-circuit current	10000 A	10000 A	10000 A
Associated disconnection devices			
Thermal disconnecter	internal		
Fuses	Fuses type gG - 50 A max. (see Note 1)		
Installation ground fault breaker	Type «S» or delayed		
Mechanical characteristics			
Dimensions	see diagram		
Connection	by screw terminals : 1,5-10 mm ² (L/N) or 2,5-25 mm ² (PE)		
Disconnection indicator	2 mechanical indicators		
Remote signaling of disconnection	Option DS215S - output on changeover contact		
Mounting	symmetrical rail 35 mm		
Operating temperature	-40/+85 °C		
Protection class	IP20		
Housing material	Thermoplastic UL94-V0		
Standards compliance			
NF EN 61643-11	France	Parafoudre Basse Tension - Essais Classe II	
IEC 61643-1	International	Low Voltage SPD - Test Class II	
EN 61643-11	Europe	Low Voltage SPD - Test Class II	
UL1449 ed.2	USA	Low Voltage TVSS	

Note 1 : Rating in compliance with nominal discharge current. In order to increase service continuity, higher rating can be used (up to 40 A). For further information, please consult product instructions.

Note 2 : MC = Common mode (L/PE or N/PE)/ MD = Differential mode (L/N)