

Single-phase AC power Surge Protector

DS210D



The DS210D is a Type 2 secondary surge protector for the single-phase circuits of electrical installations.

The «surge protection» function is pluggable to make maintenance simple and rapid if there is a disconnection, indicated by the red light indicator.

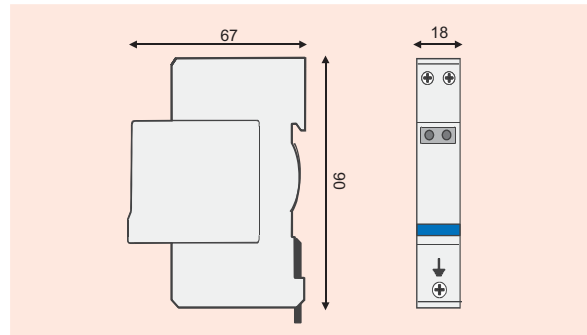
The technology is based on varistors equipped with thermal disconnectors and operating-failure indicators.

The DS210D can be classified as secondary Type 2 or Type 3 SPD following IEC 61643-11. It is useful connected downstream of a primary Type 2 SPD (i.e. DS40) to protect a remote or sensitive equipment.

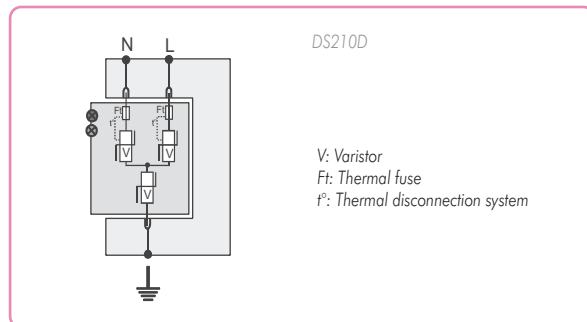
The DS210D surge protector is DIN rail compatible and is built with a plug-in module (DSM210D) and a fixed base, which allows easy and fast maintenance.

- **Compact single phase surge protector**
- **Discharge currents: I_n : 3kA / I_{max} : 10 kA**
- **Common/Differential protection modes**
- **Operating/disconnection indicators**
- **Pluggable module**
- **IEC 61643-11 and EN 61643-11 compliance**

Dimensions (in mm)



Electrical diagram



Characteristics

CITEL part number	DS210D-400	DS210D-230	DS210D-120
Single phase network	230 V	230 V	120 V
AC system	TN - TT - IT	TN - TT	TN - TT
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 none	none	none
Leakage current at U_c			
Follow current	I_f none	none	none
Nominal discharge current	I_n 3 kA	3 kA	3 kA
15 x 8/20 μ s impulses			
Maximum discharge current	I_{max} 10 kA	10 kA	10 kA
max. withstand 8/20 μ s			
Protection level (at I_n)	U_p 1,5 kV/ 1 kV	1 kV/ 1 kV	0,7 kV/ 0,7 kV (CM/DM)
Combination waveform test	U_{oc} 10 kV	10 kV	10 kV
Class III test			
Admissible short-circuit current	10000 A	10000 A	10000 A
Associated disconnection devices			
Thermal disconnector	internal		
Fuses	Fuses type gG - 20 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) - 2,5 - 25 mm ² (PE)		
Voltage/operating indicator	Green led on		
Disconnection indicator	Red led on		
Remote signaling of disconnection	none		
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 et III	
IEC 61643-11	International	Low Voltage SPD - Test Class II et III	
EN 61643-11	Europe	Low Voltage SPD - Test Class II et III	
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.