

Single phase Type 2 AC Surge Protector

DS98



DS98 AC surge protector is used for the 'secondary' protection of the single phase networks against the surge voltages created by lightning.

It is based on an association between a high energy gas tube and varistors. DS98 is equipped with an internal thermal safety which will disconnect the unit from the AC network in case of end of life. This disconnection will be indicated by the turn on of the red led in the front.

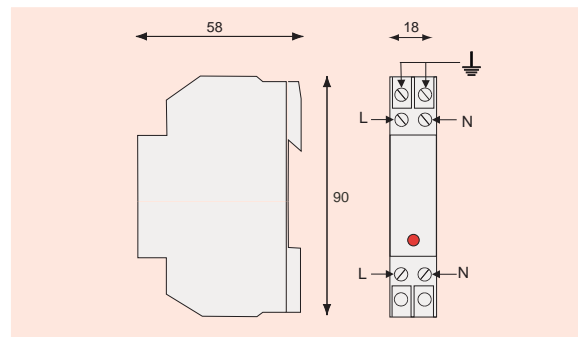
Very compact, the DS98 surge protector must be installed close by the equipment to protect, downstream a «primary» surge protector (e.g. DS40). DS98 provides both a common and differential mode protection.

These surge protectors can be classified as Type 2 or Type 3, following test class II or III from IEC 61643-1 standard.

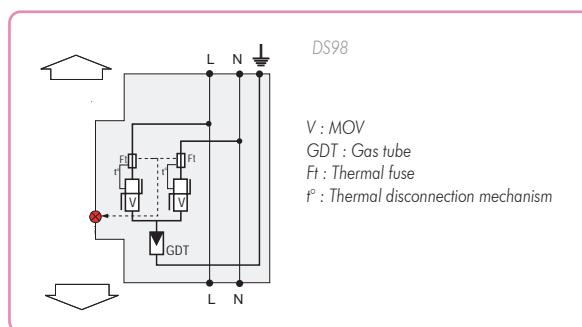
The electrical configuration of the DS98 allows a connection in parallel or series modes. In the last case, the maximum load current is 16 A.

- **Cost effective Single phase Surge Protector**
- **Type 2 (or 3) monobloc**
- **Discharge currents: In: 5 kA / Imax: 10 kA**
- **Common/Differential mode**
- **Series or parallel wiring**
- **IEC 61643-1 and EN 61643-11 compliance**

Dimensions (in mm)



Electrical diagram



Characterics

CITEL part Number	DS98-400	DS98-120
Single Phase AC network	230 V	120 V
AC system	TN - TT - IT	TN - TT
Max. operating voltage	Uc 255 Vac	150 Vac
TOV withstand	UT 400 Vac	150 Vac
Max. load current <i>in case of series mounting</i>	IL 16 A	16 A
Leakage current <i>Leakage current at Uc</i>	Ic without	without
Follow current	If without	without
Nominal discharge current <i>15 x 8/20 μs current impulse</i>	In 5 kA	5 kA
Maximal discharge current <i>max. withstand in 8/20 μs impulse</i>	Imax 10 kA	10 kA
Protection level (@ In) <i>Common mode/Differential mode</i>	Up 1.5 kV/ 1 kV	0.7 kV/ 0.7 kV
Tenue en onde combinée <i>Test de classe III</i>	Uoc 10 kV	10 kV
Admissible short circuit current	10000 A	10000 A
Associated disconnection devices		
Thermal disconnector	internal	
Fuses	Fuse type gG - 20 A max. (see Note 1)	
RDC breaker (if any)	«S» Type or delayed	
Caractéristiques mécaniques		
Dimensions	see diagram	
Connection to network	by screw terminal : 2,5 mm ² max	
Disconnection indicatort	Red light on	
Mounting	symmetrical rail 35 mm	
Operating temperature	-40/+85 °C	
Protection class	IP20	
housing material	Thermoplastic UL94-V0	
Standard compliance		
NF EN 61643-11	France	Parafoudre Basse Tension - Essais Classe II et III
IEC 61643-1	International	Low Voltage SPD - Test Class II et III
EN 61643-11	Europe	Parafoudre Basse Tension - Essais Classe 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.

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