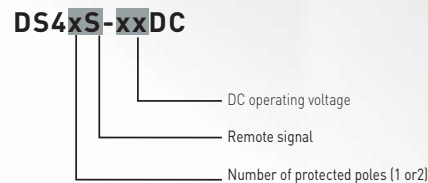


Data Sheet

48 Vdc Surge Protector DS4xS-48DC

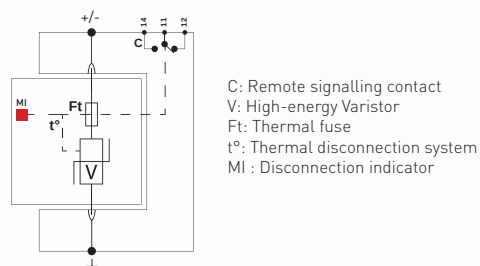
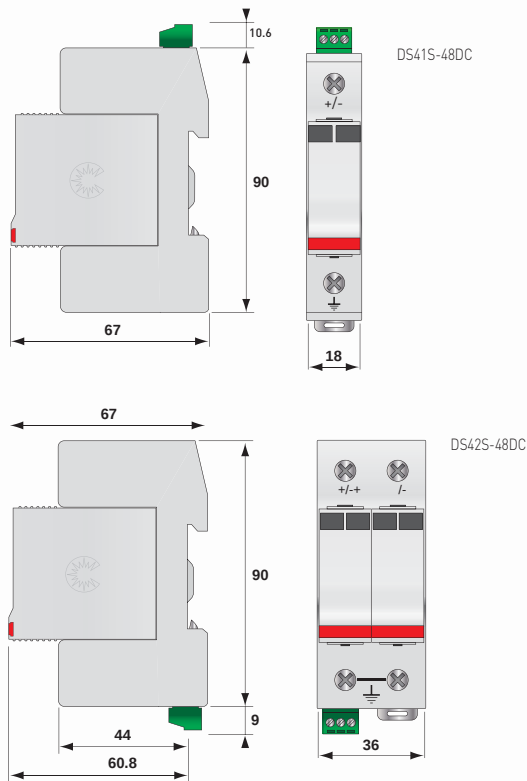


- 1 or 2-pole 48 Vdc Surge Protector
- Type 1 and Type 2 application
- In: 15 kA / I_{max}: 30 kA
- Impulse current I_{imp} : 4kA @ 10/350µs
- Pluggable module
- Remote signaling
- IEC 61643-1 and EN 61643-11 compliance
- UL1449 ed.3 approved



Dimensions and Diagram

(in mm)



Caracteristics

CITEL part number		DS41S-48DC	DS42S-48DC
Typical use		1-pole 48 Vdc power line surge protector	2 pole 48 Vdc power line surge protector
Nominal DC voltage	Un	48 Vdc	48 Vdc
Maximum operating voltage	Uc	65 Vdc	65 Vdc
Operating current leakage current at Un	Ic	< 0.1 mA	< 0.1 mA
Nominal discharge current 15 x 8/20 µs impulse	In	15 kA	15 kA
Maximal discharge current 1 x 8/20 µs impulse	Imax	30 kA	30 kA
Max. Lighting current by pole max withstand at 10/350µs	Iimp	4 kA	4 kA
Protection level	Up	300 V	300V
Associated disconnection devices			
Thermal disconnector		internal	
Fuses (if requested)		Fuses type gG - 50 A	
Caractéristiques mécaniques			
Dimensions		see diagram	
Connection		by screw terminals 4-25 mm²	
Disconnection indicator		1 mechanical indicator	
Mounting		Symetrical rail (EN50022/DIN46277-3)	
Operating temperature		-40/+85 °C	
Housing material		Thermoplastic UL94-V0	
Standard compliance			
NF EN 61643-11	France	Parafoudre Basse Tension - Essais Classe I et II	
CEI 61643-1	International	Low Voltage SPD - Test Class I and II	
EN 61643-11	Europe	Parafoudre Basse Tension - Essais Classe I et II	
UL1449 ed.3	USA	Low Voltage SPD	
Part Number			
DS41S-48DC		332121	
DS42S-48DC		462121	

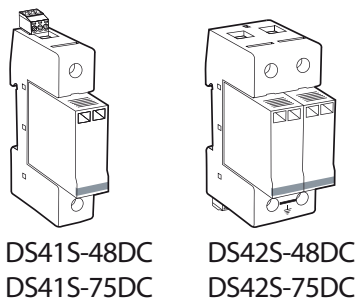


CITEL

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INSTALLATION INSTRUCTIONS - NOTICE D'INSTALLATION

DC surge protector - Parafoudre DC



DS41S-48DC
DS41S-75DC

DS42S-48DC
DS42S-75DC

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www.citel.us
www.citel.com.cn

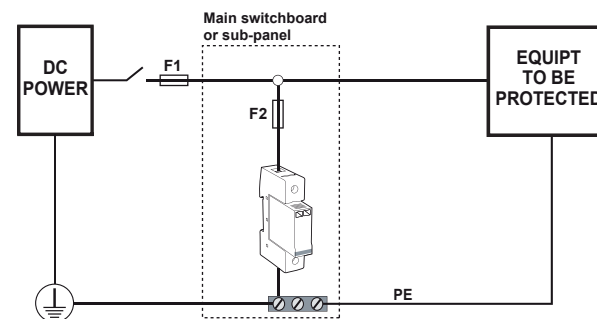


Technical Data

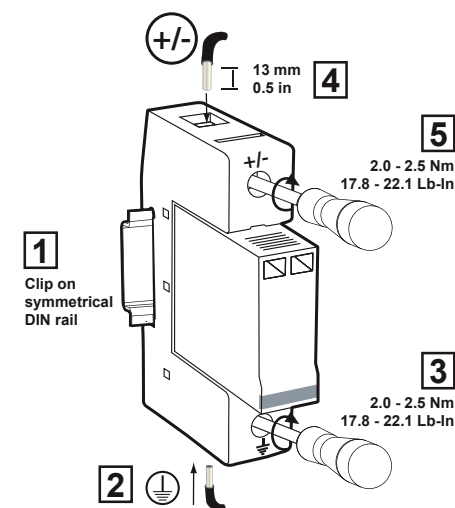
	P/N			
	DS41S-48DC	DS42S-48DC	DS41S-75DC	DS42S-75DC
 2000 m max. 6500 ft max.  -40/+85°C max. -40/+1°F max.  IP20 indoor use only				
DC Network	48 Vdc		75 Vdc	
Remote signal	●	●	●	●
Number of pole	1	2	1	2
I_{SCCR}	25 kA		25 kA	
I_{max}	30 kA		40 kA	

Table 1

Installation



	min-max Ø	
	2.5 - 35 mm ²	13 - 2 AWG
	2.5 - 25 mm ²	13 - 4 AWG



ATTENTION

GB

- Installation must be performed only by electrically skilled operator.
- National electrical installation rules must be followed.
- The unit must be used only as surge protector and according the conditions described in this document.
- Surge protectors must be selected in relation with an dedicated DC network.
- In case of red indicator, the surge protector must be replaced.

FR

- L'installation ne doit être effectuée que par un opérateur électricien dûment qualifié.
- Les règles générales d'installation électrique nationales doivent être respectées.
- Le produit est uniquement destiné à un usage parafoudre et doit être utilisé dans les conditions décrites dans ce document.
- Les parafoudres sont utilisés en fonction d'un réseau DC déterminé.
- En cas d'indicateur passant au rouge, le parafoudre doit être remplacé.

Wiring

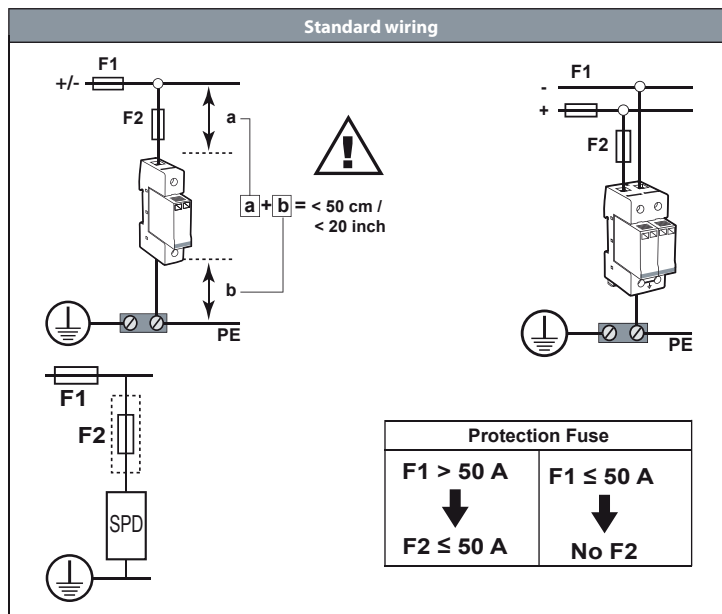
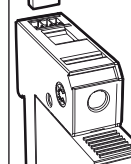


Table 2

Remote contact wiring

1,5 mm²
(# 16 AWG max)
0,5 Nm max.
(2.1 Lb-In)
250 Vac / 0.5 A max.
30 Vdc / 3 A max.



Remote signal for disconnection information
11-12 Closed = SPD OK
11-14 Open = SPD OK
11-12 Open = SPD disconnect
11-14 Closed = SPD disconnect

Table 3

Maintenance

