



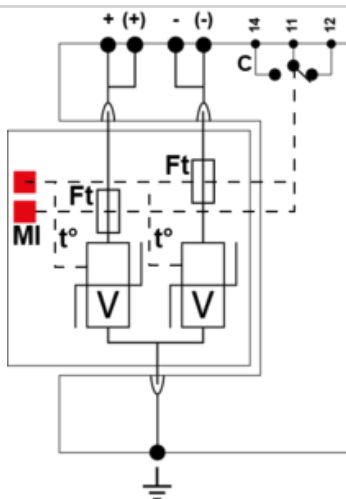
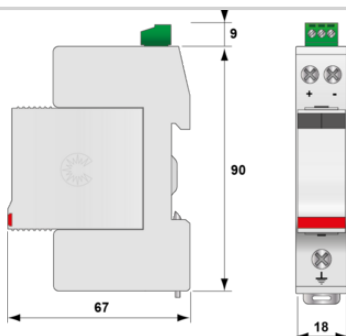
CITEL

DC power surge protector - 48 Vdc

DS230S-48DC



- Discover our latest innovation : the [DDC30CS-20-65](#)
- DC or PV power surge protector
- 48 Vdc
- Compact design
- I_{max}: 30 kA
- Pluggable module
- Remote signaling
- Very low U_p protection level



Electrical Characteristics

SPD type		2
Network		DC or PV network 48Vdc
Nominal line voltage	Un	48 Vdc
Nominal DC voltage	Un-dc	48 Vdc
Nominal PV voltage	Uocsc	48 Vdc
Max. AC operating voltage	Uc	50 Vac
Max. PV operating voltage	Ucpv	65 Vdc
Max. DC operating voltage	Uc	65 Vdc
Residual Current	I _{pe}	< 0.1 mA
Leakage current to Ground		
PV Permanent Operating current	I _{cpv}	< 0.1 mA
Current consumption at U _{cpv}		
Follow current	I _f	None
Nominal discharge current	I _n	15 kA
15 x 8/20 μ s impulses		
Max. discharge current	I _{max}	30 kA
max. withstand @ 8/20 μ s by pole		
Total Maximum discharge current	I _{max} Total	30 kA
max. total withstand @ 8/20 μ s		
Current withstand short circuit PV	I _{scpv}	1000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common mode
Protection level	U _p	300 V
@ I _n (8/20 μ s)		

Mechanical Characteristics

Technology		MOV
Connection to Network		By screw terminals: 1.5-10mm ² (actives wires) and 2.5-25mm ² (ground)
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN 60715)
Housing material		Thermoplastic UL94 V-0
Operating temperature	Tu	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection from DC network
Disconnection indicator		2 mechanical indicators
Spare module(s)		DSM230-48DC
Remote signaling of disconnection		Output on changeover contact
Dimensions		See diagram

Disconnectors

Thermal disconnector		Internal
Back-up protection device		Fuses type gG - 20A

Standards

Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification		UL Recognized

Part number

390411

