



# CITEL

## DC power surge protector Type 2 -110 Vdc

### DDC40CS-20-150



- Type 2 DC power surge protector
- Compact design
- I<sub>max</sub>: 40 kA
- Pluggable module
- Remote signaling
- Low Up protection level
- Compliance prIEC 61643-41 and UL1449 ed.5



Electrical Characteristics		
SPD type	IEC	2
Network		DC network 110 Vdc
Nominal PV voltage	Uocstc	110 Vdc
Max. AC operating voltage	Uc	115 Vac
Max. PV operating voltage	Ucpv	150 Vdc
Max. DC operating voltage	Uc	150 Vdc
Max. load current @25°C	IL	20 A
Residual Current	lpe	< 0.2 mA
Leakage current to Ground		
PV Permanent Operating current	lcpv	< 0.1 mA
Current consumption at Ucpv		
Nominal discharge current	In	20 kA
15 x 8/20 μs impulses		
Max. discharge current	I <sub>max</sub>	40 kA
max. withstand @ 8/20 μs by pole		
Total Maximum discharge current	I <sub>max</sub> Total	80 kA
max. total withstand @ 8/20 μs		
Current withstand short circuit PV	I <sub>scpv</sub>	1000 A
Connection mode(s)		+/-/PE
Protection level +/-PE (-/PE)	Up	500 V
@ In (8/20μs)		
Admissible short-circuit current	I <sub>scrr</sub>	10 000 A
Mechanical Characteristics		
Technology		MOV
Connection to Network		By screw terminals: 1.5-10mm <sup>2</sup> (actives wires) and 2.5-25mm <sup>2</sup> (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		1 mechanical indicator - Red/Green
Spare module(s)		MDDC40C-20-150
Remote signaling of disconnection		Output on changeover contact
Wiring for remote signaling		1.5 mm <sup>2</sup> max.
Max. Voltage/Current for remote signaling		250 V / 0.5 A (AC) / 30 V / 3 A (DC)
Dimensions		See diagram - 1TE (EN43880)
Disconnectors		
Thermal disconnector		Internal
Back-up protection device		50 A min. - 125 A max. - Fuses Type gG
Standards		
Standards compliance		prIEC 61643-41 and UL1449 ed.5
Part number		
<b>828410721</b>		

