

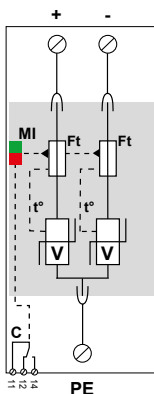
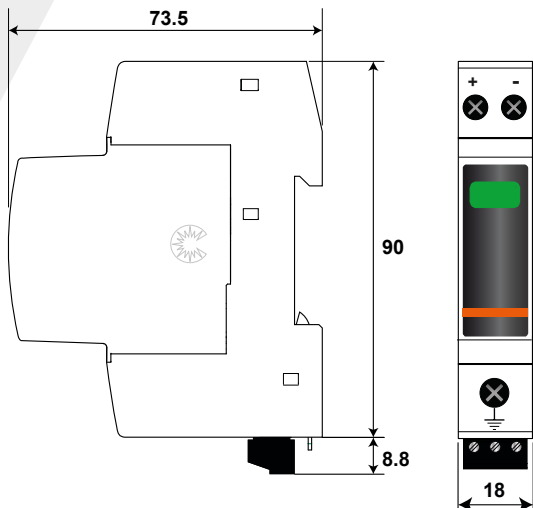
# COMPACT TYPE 2 DC POWER SURGE PROTECTOR



## DDCxxC SERIES



- Surge protector for DC or PV powerlines
- From 12 to 350 Vdc
- Compact design
- Remote signaling (option)
- prIEC 61643-41 and UL1449 ed.4 compliance



C: Remote signalling contact  
 V: Varistor  
 Ft: Thermal fuse  
 t°: Thermal disconnection system  
 MI : Disconnection indicators

## Characteristics

CITEL Model	DDC20C-20-24	DDC20C-20-38	DDC30C-20-65
Network	12Vdc	24Vdc	48 Vdc
Connection mode	+/-/PE	+/-/PE	+/-/PE
Max. DC operating voltage	Uc 24 Vdc	38 Vdc	65 Vdc
Max. AC operating voltage	Uc 20 Vac	30 Vac	50 Vac
Max. operating voltage PV-DC	Ucpv 24 Vdc	38 Vdc	65 Vdc
Permanent operating current @ Ucpv	Icpv < 0.1 mA	< 0.1 mA	< 0.1 mA
Residual current <i>Leakage current at Uc</i>	Ipe < 0.1 mA	< 0.1 mA	< 0.1 mA
Follow current	If None	None	None
Nominal discharge current <i>15 x 8/20 μs impulses</i>	In 10 kA	10 kA	15 kA
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	I <sub>max</sub> 20 kA	20 kA	30 kA
Total discharge current @ 8/20μs	I <sub>max-total</sub> 40 kA	40 kA	60 kA
Protection level +/-PE (-/PE) @ In (8/20μs)	Up 250 V	250 V	300 V
Protection level +/- @I (8/20μs)	Up 500 V	500 V	600 V
Admissible short circuit current	I <sub>sc</sub> 10 000 A	10 000 A	10 000 A
Current withstand short circuit PV	I <sub>scpv</sub> 1000 A	1000 A	1000 A
<b>Associated disconnectors</b>			
Thermal disconnector	internal		
Fuses (if required)	20 A min - 125 A max - Type gG		
<b>Mechanical characteristics</b>			
Dimensions	see diagram, 1 TE (EN43880)		
Connection to Network	by screw terminals: 1.5-10mm <sup>2</sup> (actives wires) and 2.5-25mm <sup>2</sup> (ground)		
Disconnection indicator	1 mechanical indicator, Green/Red		
Failure mode	Disconnection from network		
Remote signaling of disconnection output on changeover contact	Option DDC20CS-20-24	Option DDC20CS-20-38	Option DDC30CS-20-65
Max. voltage/current for remote signaling	250 V/0.5 A (AC) / 30 V/3 A (DC)		
Wiring for remote signaling	Max. 1.5 mm <sup>2</sup>		
Mounting	Symmetrical rail 35 mm (EN60715)		
Operating temperature	-40/+85°C		
Protection rating	IP20		
Housing material	Thermoplastic UL94-V0		
Spare unit	MDDC20C-20-24	MDDC20C-20-38	MDDC30C-20-65
<b>Standards</b>			
Compliance	prIEC61643-41/ UL1449 ed.4		
<b>Part number</b>			
	-	-	-

