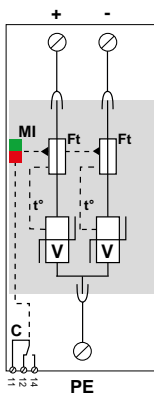
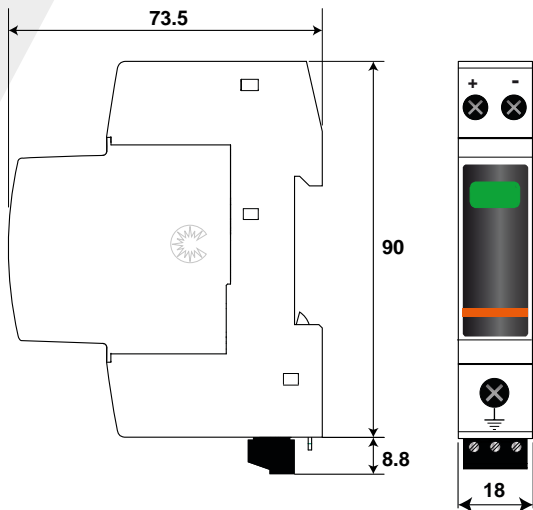


DDCxxC SERIES



- 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



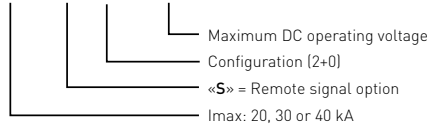
C: Remote signalling contact
 V: Varistor
 Ft: Thermal fuse
 t°: Thermal disconnection system
 MI : Disconnection indicators

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 _{max} 20 kA	20 kA	30 kA
Total discharge current @ 8/20μs	I _{max-total} 40 kA	40 kA	60 kA
Protection level +/-PE (-/PE) @ In (8/20μs)	Up 250 V	250 V	300 V
Protection level +/- @ (8/20μs)	Up 500 V	500 V	600 V
Admissible short circuit current	I _{sc} 10 000 A	10 000 A	10 000 A
Current withstand short circuit PV	I _{scpv} 1000 A	1000 A	1000 A
Associated disconnectors			
Thermal disconnector	internal		
Fuses (if required)	20 A min - 125 A max - Type gG		
Mechanical characteristics			
Dimensions	see diagram, 1 TE (EN43880)		
Connection to Network	by screw terminals: 1.5-10mm ² (actives wires) and 2.5-25mm ² (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 ²		
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
Standards			
Compliance	prIEC61643-41/ UL1449 ed.4		
Part number			
	-	-	-

COMPACT TYPE 2 DC POWER SURGE PROTECTOR

DDCxxCS-20-xxx



DDC40C-20-100	DDC40C-20-125	DDC40C-20-150	DDC40C-20-180	DDC40C-20-275	DDC40C-20-350	DDC40C-20-460
75 Vdc	95 Vdc	110 Vdc	130 Vdc	220 Vdc	280 Vdc	350 Vdc
+/-/PE	+/-/PE	+/-/PE	+/-/PE	+/-/PE	+/-/PE	+/-/PE
100 Vdc	125 Vdc	150 Vdc	180 Vdc	275 Vdc	350 Vdc	460 Vdc
75 Vac	95 Vac	115 Vac	150 Vac	210 Vac	275 Vac	350 Vac
100 Vdc	125 Vdc	150 Vdc	180 Vdc	275 Vdc	350 Vdc	460 Vdc
< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA
< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA
None	None	None	None	None	None	None
20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA
390 V	450 V	500 V	620 V	900 V	1200 V	1400 V
780 V	900 V	1000 V	1200 V	1800 V	2400 V	2800 V
10 000 A	10 000 A	10 000 A	10 000 A	10 000 A	10 000 A	10 000 A
1000 A	1000 A	1000 A	1000 A	1000 A	1000 A	1000 A
50 A min. - 125 A max. - Type gG						
Option DDC40CS-20-100	Option DDC40CS-20-125	Option DDC40CS-20-150	Option DDC40CS-20-180	Option DDC40CS-20-275	Option DDC40CS-20-350	Option DDC40CS-20-460
MDDC40C-20-100	MDDC40C-20-125	MDDC40C-20-150	MDDC40C-20-180	MDDC40C-20-275	MDDC40C-20-350	MDDC40C-20-460
-	-	-	-	-	-	-