



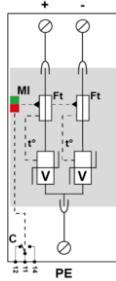
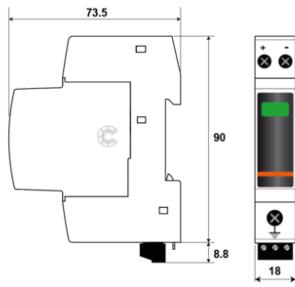
DC power surge protector Type 2 - 24 Vdc

CITEL

DDC20CS-20-38



- Type 2 DC power surge protector
- Compact design
- Imax: 20 kA
- Pluggable module
- Low Up protection level
- Remote signaling
- Compliance prIEC 61643-41 and UL1449 ed.5



V: High-energy varistor
Ft: Thermal fuse
C: Remote signal contact
t°: Thermal disconnection system
MI: Disconnection indicator

Electrical Characteristics

SPD type	2
Network	DC network 24Vdc
Nominal PV voltage	Uocstc 24 Vdc
Max. AC operating voltage	Uc 30 Vac
Max. PV operating voltage	Ucpv 38 Vdc
Max. DC operating voltage	Uc 38 Vdc
Max. load current @25°C	IL 20 A
Residual Current <i>Leakage current to Ground</i>	Ipe < 0.1 mA
PV Permanent Operating current <i>Current consumption at Ucpv</i>	Icpv < 0.1 mA
Follow current	If None
Nominal discharge current <i>15 x 8/20 µs impulses</i>	In 10 kA
Max. discharge current <i>max. withstand @ 8/20 µs by pole</i>	Imax 20 kA
Total Maximum discharge current <i>max. total withstand @ 8/20 µs</i>	Imax Total 40 kA
Current withstand short circuit PV	Isccpv 1000 A
Connection mode(s)	+/-/PE
Protection level +/PE (-/PE) <i>@ In (8/20µs)</i>	Up 250 V
Admissible short-circuit current	Isccr 10 000 A

Mechanical Characteristics

Technology	MOV
Connection to Network	By screw terminals: 1.5-10mm² (actives wires) and 2.5-25mm² (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)	MDDC20C-20-38
Remote signaling of disconnection	Output on changeover contact
Wiring for remote signaling	1.5 mm² max.
Max. Voltage/Current for remote signaling	250 V / 0.5 A (AC) / 30 V / 3 A (DC)
Dimensions	See diagram - 1TE (EN43880)
Weight	0.103 kg
Disconnectors	
Thermal disconnector	Internal
Back-up protection device	20 A min. - 125 A max. - Fuses type gG
Standards	
Standards compliance	prIEC 61643-41 and UL1449 ed.5
Part number	828210421

