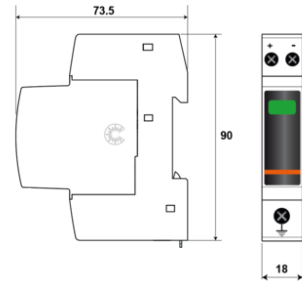
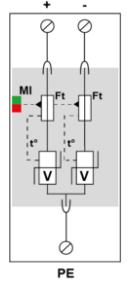


DDC20C-20-24



- Type 2 DC power surge protector
- Compact design
- I_{max}: 20 kA
- Pluggable module
- Remote signaling (option)
- Low Up protection level
- Compliance prIEC 61643-41 and UL1449 ed.5



	Electrical Characteristics																																																																
 <p>V: High-energy varistor Ft: Thermal fuse t*: Thermal disconnection system MI: Disconnection indicator</p>	<table border="1"> <tr><td>SPD type</td><td></td><td>2</td></tr> <tr><td>Network</td><td></td><td>DC network 12 Vdc</td></tr> <tr><td>Nominal PV voltage</td><td>Uocstc</td><td>12 Vdc</td></tr> <tr><td>Max. AC operating voltage</td><td>Uc</td><td>20 Vac</td></tr> <tr><td>Max. PV operating voltage</td><td>Ucpv</td><td>24 Vdc</td></tr> <tr><td>Max. DC operating voltage</td><td>Uc</td><td>24 Vdc</td></tr> <tr><td>Max. load current</td><td>IL</td><td>20 A</td></tr> <tr><td>Residual Current</td><td>Ipe</td><td>< 0.1 mA</td></tr> <tr><td>Leakage current to Ground</td><td></td><td></td></tr> <tr><td>PV Permanent Operating current</td><td>Icpv</td><td>< 0.1 mA</td></tr> <tr><td>Current consumption at Ucpv</td><td></td><td></td></tr> <tr><td>Follow current</td><td>If</td><td>None</td></tr> <tr><td>Nominal discharge current</td><td>In</td><td>10 kA</td></tr> <tr><td>15 x 8/20 μs impulses</td><td></td><td></td></tr> <tr><td>Max. discharge current</td><td>I_{max}</td><td>20 kA</td></tr> <tr><td>max. withstand @ 8/20 μs by pole</td><td></td><td></td></tr> <tr><td>Total Maximum discharge current</td><td>I_{max} Total</td><td>40 kA</td></tr> <tr><td>max. total withstand @ 8/20 μs</td><td></td><td></td></tr> <tr><td>Current withstand short circuit PV</td><td>I_{scpv}</td><td>1000 A</td></tr> <tr><td>Connection mode(s)</td><td></td><td>+/-PE</td></tr> <tr><td>Protection level +/-PE (-/PE) @ In (8/20μs)</td><td>Up</td><td>250 V</td></tr> </table>		SPD type		2	Network		DC network 12 Vdc	Nominal PV voltage	Uocstc	12 Vdc	Max. AC operating voltage	Uc	20 Vac	Max. PV operating voltage	Ucpv	24 Vdc	Max. DC operating voltage	Uc	24 Vdc	Max. load current	IL	20 A	Residual Current	Ipe	< 0.1 mA	Leakage current to Ground			PV Permanent Operating current	Icpv	< 0.1 mA	Current consumption at Ucpv			Follow current	If	None	Nominal discharge current	In	10 kA	15 x 8/20 μs impulses			Max. discharge current	I _{max}	20 kA	max. withstand @ 8/20 μs by pole			Total Maximum discharge current	I _{max} Total	40 kA	max. total withstand @ 8/20 μs			Current withstand short circuit PV	I _{scpv}	1000 A	Connection mode(s)		+/-PE	Protection level +/-PE (-/PE) @ In (8/20μs)	Up	250 V
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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		1 mechanical indicator - Red/Green																																																															
Spare module(s)		MDDC20C-20-24																																																															
Remote signaling of disconnection		Option DDC20CS-20-24 : output on changeover contact																																																															
Dimensions		See diagram - 1TE (EN43880)																																																															
Weight		0.100 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																																																															
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