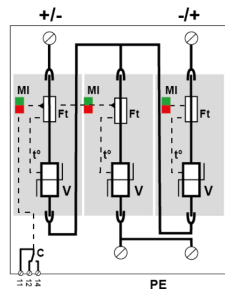
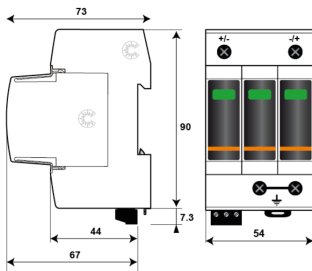


DDC50S-21Y-500



- ✦ DC power Type 2 SPD
- ✦ For Energy Storage/EV Charging
- ✦ In/Imax: 20/50 kA
- ✦ Pluggable modules
- ✦ Remote signaling
- ✦ prIEC 61643-41 compliance



V: High-energy varistor
 Ft: Thermal fuse
 t*: Thermal disconnection system
 MI: Disconnection indicator

Electrical Characteristics

SPD type	IEC	2
Nominal DC voltage	Un-dc	450 Vdc
Max. DC operating voltage	Uc	500 Vdc
Residual Current Leakage current to Ground	Ipe	< 0.1 mA
Nominal discharge current 15 x 8/20 μs impulses	In	20 kA
Max. discharge current max. withstand @ 8/20 μs by pole	Imax	50 kA
Impulse current by pole max. withstand 10/350μs by pole	Iimp	4 kA
Protection level +/- @ In (8/20μs)	Up	2.1 kV
Admissible short-circuit current	Iscsr	100 000 A

Mechanical Characteristics

Connection to Network	By screw terminals: 2.5-25 mm ² (35 mm ² rigid)
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 by pole - Red/Green
Spare module(s)	MDDC50-500
Remote signaling of disconnection	output on changeover contact
Wiring for remote signaling	1.5 mm ² max.
Max. Voltage/Current for remote signaling	250 V / 0.5 A (AC) / 30 V / 3 A (DC)
Dimensions	See diagram - 3 TE (EN43880)
APPLICATION	ENERGY STORAGE SYSTEMS (ESS) /EV CHARGING

Disconnectors

Thermal disconnector	Internal
Back-up protection device	50 A min. (Iscsr 100 kA) - 125 A max. (Iscsr 50 kA) - gBat Fuses

Standards

Standards compliance	prIEC 61443-41 - IEC61643-11
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Part number

828511263
