

Technical data sheet

LightningController - MCF100-NAR-TT



Item no. 5096985



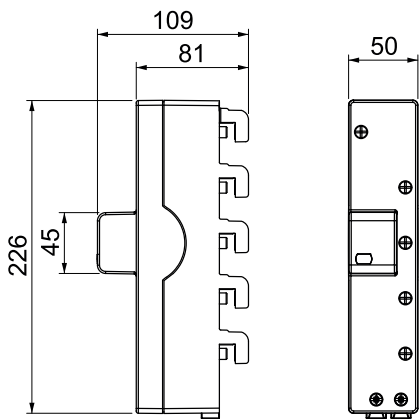
Combination arrester, type 1+2, for mounting on 40 mm busbars, for TN-S and TT systems

- Protection level ≤ 1.5 kV to protect the terminals
- Lightning protection equipotential bonding according to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity up to 100 kA (10/350) 3+NPE
- Fulfills the requirements of VDE 0100-534 (IEC 60364-5-53)
- Line follow current quenching up to 50 kA and max. backup fuse up to 315 A gL/gG
- Spark gaps for use in the pre-meter area according to VDE-AR-N 4100

Application: Building with lightning protection or outside cable infeed.



Dimensions



Length	226,00 mm
Width	50,00 mm
Height	109,00 mm

Master data

Item no.	5096985
Type	MCF100-NAR-TT
Description 1	LightningController Rail
Description 2	3-pole with NPE
Dimension	255V
Smallest sales unit (VG)	1,00 Piece
Weight	107,20 kg/100 pc.

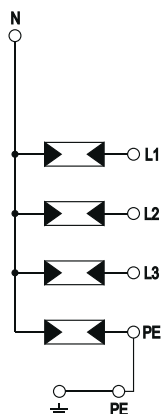
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SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-11	Class I+II
Nominal voltage AC (50/60 Hz)	230,00 V
Maximum continuous voltage AC	255,00 V
Maximum continuous voltage (L-N)	255,00 V
Maximum continuous voltage (N-PE)	255,00 V
Nominal frequency	50,00 Hz
Nominal discharge current (8/20 µs)	25,00 kA
Nominal discharge current (8/20 µs) [L-N]	25,00 kA
Nominal discharge current (8/20 µs) [L-PE]	25,00 kA
Nominal discharge current (8/20 µs) [N-PE]	100,00 kA
Maximum discharge current (8/20 µs)	50,00 kA
Maximum discharge current (8/20 µs) [L-N]	50,00 kA
Maximum discharge current (8/20 µs) [N-PE]	100,00 kA
Lightning surge current (10/350 µs)	25,00 kA
Lightning surge current (10/350 µs) [N/PE]	100,00 kA
Lightning surge current (10/350 µs) [L-N/PE]	25,00 kA
Lightning surge current (10/350)	100,00 kA
Arrestor surge current (8/20 µs) [total]	100,00 kA
Combined voltage protection level [L-PE]	2,50 kV
Protection level	1,50 kV
Protection level [L-N]	1,50 kV
Protection level [N-PE]	1,50 kV
Follow current quenching capacity (eff) [N-PE]	0,10 kA
Response time	<100 ns
Response time [L-N]	<100 ns
Response time [N-PE]	<100 ns
Max. mains-side overcurrent protection	315 A
Short-circuit withstand for max. mains-side overcurrent protection	50 kA eff
TOV voltage [L-N] – fail safe mode – 120 min.	442,00 V
TOV voltage [L-N] – withstand mode – 5 s	440,00 V
TOV voltage [N-PE] – withstand mode – 200 ms	1.200,00 V
Operating temperature range	-40+80 °C
Humidity	5,00 - 95,00 %
Function/defect display	Optical
Ports	One-Port SPD
Pole version	3+N/PE
Version	3+NPE

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Version	3 + NPE
Connection cross-section (min.)	10,00 mm ²
Connection cross-section (max.)	35,00 mm ²
Connection cross-section (min.)	7,00 AWG
Connection cross-section (max.)	2,00 AWG
Torque	3,50 Nm
Torque	35,00 Lbs
Mounting type	Bus bar 40 mm
Housing material	PA UL 94 V-0
Installation location	Interior
Protection rating	IP20
Installation dimensions (LxWxH)	226x50x109 mm
Minimum distance	0,00 mm
Approvals	VDE
Protective conductor current	< 5 µA
Size	Other
Max. cable cross-section flexible (fine-wire)	35,00 mm ²
Max. cable cross-section rigid (single wire/multi-wire)	35,00 mm ²
Conductor cross-section, flexible (fine-wire)	10,00 - 35,00 mm ²
Conductor cross-section, flexible (fine-wire)	7,00 - 2,00 AWG
Conductor cross-section, rigid (single wire/multi-wire)	7,00 - 2,00 AWG
Conductor cross-section, rigid (single wire/multi-wire)	10,00 - 35,00 mm ²
Signalling on device	Visual