

Technical data sheet

LightningController - MCF100-NAR-TT

Art.-Nr. 5096985



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

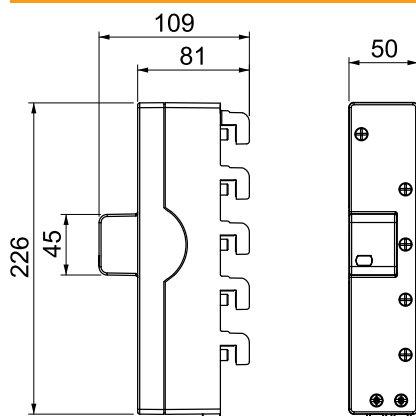
- Protection level ≤ 1.5 kV to protect the terminals
- Lightning protection equipotential bonding according to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity up to 100 kA (10/350) 3+NPE
- Fulfills the requirements of VDE 0100-534 (IEC 60364-5-53)
- Line follow current quenching up to 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.



Additional product text 1 | Compact protection device

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 | 1,00 Piece |
| Weight | 107,20 kg/100 pc. |

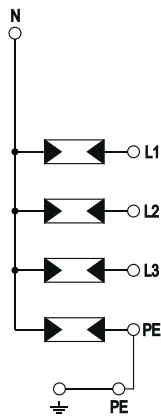
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| | |
|--------------------------------------------------------------------|-----------------------|
| SPD to EN 61643-11 | Type 1+2 |
| SPD to IEC 61643-11 | Class I+II |
| Nominal voltage AC (50/60 Hz) | 230,00 V |
| Maximum continuous voltage AC | 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 |
| Pole number | 4,00 |
| Version | 3+NPE |
| Version | 3 + NPE |
| Connection cross-section (min.) | 10,00 mm ² |

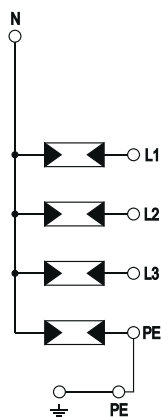
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| | |
|---------------------------------------------------------|-------------------------------|
| Connection cross-section (max.) | 35,00 mm ² |
| Connection cross-section (min.) | 7,00 AWG |
| Connection cross-section (max.) | 2,00 AWG |
| Torque | 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 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 |