

Technical data sheet

Combination arrester, 1-pole



Item number: 5096849



Combination arrester, type 1+2, for use in TN and TT networks

- Lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity to 50 kA (10/350) per pole and up to 150 kA (10/350) in total
- Protection level < 1.7 kV allows device protection
- Short-circuit resistance 10 kA, arrester backup fuse to 500 A gL/gG
- Encapsulated, non-extinguishing spark gaps

Application: Industrial systems and buildings with external lightning protection of the highest class I to IV.



| Master data | | |
|------------------------------------|--------------------------------|--|
| Item number | 5096849 | |
| Type | MCD 50-B | |
| Description 1 | CoordinatedLightningController | |
| Manufacturer | OBO | |
| Dimension | 255V | |
| Smallest sales unit | 1 | |
| Unit of quantity | Piece | |
| Weight | 34.4 kg | |
| Weight unit | kg/100 pc. | |
| CO2 Footprint (GWP) Cradle-to-Gate | 2,0091 kg CO2e / 1 Piece | |

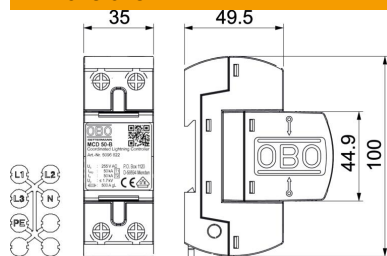
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Dimensions



| | |
|--------|--------|
| Length | 100 mm |
| Width | 35 mm |
| Height | 69 mm |

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| Arrester surge current (8/20 µs) [total] | 50 kA |
| Response time | <100 ns |
| Blow-out | no |
| Version for | 1-pole complete; 255 V |
| Pole version | 1 |
| Structural width in division units (division unit, 17.5 mm) | 2 |
| Operating temperature, max. | 85 °C |
| Operating temperature, min. | -40 °C |
| Lightning surge current (10/350 µs) | 50 kA |
| Lightning surge current (10/350) | 50 kA |
| Remote signalling | no |
| Follow current quenching capacity left | 10 |
| Maximum continuous voltage AC | 255 V |
| Short-circuit resistance | 10 kA |
| Short-circuit resistance for max. mains-side overcurrent protection | 10 kA |
| Conductor cross-section, rigid (single-wire/multiwire), max. | 50 mm ² |
| Conductor cross-section, rigid (single-wire/multiwire), min. | 10 mm ² |
| Lightning protection zone LPZ | 0→2 |
| Max. mains-side overcurrent protection | 500 |
| Maximum back-up fuse | 500 A |
| Installation type | DIN rail 35 mm |
| Nominal discharge current (8/20 µs) | 50 kA |
| Nominal discharge current (8/20 µs) [L-N] | 50 kA |
| Nominal voltage AC (50/60 Hz) | 230 V |
| Network form | TN |
| DC network form | no |
| IT network form | no |
| Other network form | no |
| TN network form | yes |
| TN-C network form | yes |
| TN-C-S network form | yes |
| TN-S network form | yes |
| TT network form | yes |

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|--|------------|
| OBO_Nominal load current (input/output terminal) | 125 A |
| Pole number | 1 |
| Test class, type 1 | yes |
| Test class, type 2 | yes |
| Protection rating | IP20 |
| Protection level | ≤1,7 |
| Protection level [L-N] | ≤1,7 |
| Signalling on device | None |
| SPD to EN 61643-11 | Type 1+2 |
| SPD to IEC 61643-1 | Class I+II |
| Permitted temperature range, max. | 85 °C |
| Permitted temperature range, min. | -40 °C |
| Approvals | VDE |