

# Technical data sheet

## Series protection device, 4-pole, 48 V version

Item number: 5098450



Lightning barrier with test function; 48 V version

- Rated load current 0.58 A
- Protection device for multi-wire systems
- Direct shield earthing and screwless connection terminals
- Space-saving width of just 8.7 mm
- Protection circuit testable with Life Control
- High bandwidth to 100 MHz
- UL-listed (4DG1)

Application: Universal use on 35 mm DIN profile rail in any standard distribution housing.



| Master data         |                           |
|---------------------|---------------------------|
| Item number         | 5098450                   |
| Description 1       | Lightning barrier         |
| Description 2       | 4-pole with test function |
| Manufacturer        | OBO                       |
| Dimension           | 48V                       |
| Smallest sales unit | 1                         |
| Unit of quantity    | Piece                     |
| Weight              | 5.8 kg                    |
| Weight unit         | kg/100 pc.                |

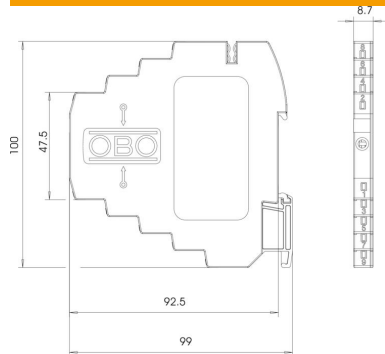
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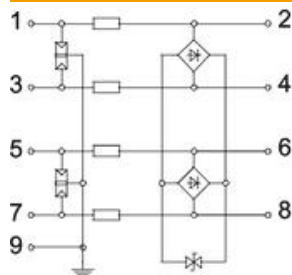
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## Dimensions



## Technical data



|                                            |                       |
|--------------------------------------------|-----------------------|
| Arrestor monitoring                        | no                    |
| Connection cross-section, flexible, max.   | 2.5 mm <sup>2</sup>   |
| Connection cross-section, flexible, min.   | 0.14 mm <sup>2</sup>  |
| Connection cross-section, multi-wire, max. | 1.5 mm <sup>2</sup>   |
| Connection cross-section, multi-wire, min. | 0.14 mm <sup>2</sup>  |
| Connection cross-section, rigid, max.      | 2.5 mm <sup>2</sup>   |
| Connection cross-section, rigid, min.      | 0.14 mm <sup>2</sup>  |
| Number of poles                            | 4                     |
| Insertion loss                             | ≤3 dB                 |
| Earthing via:                              | DIN rail              |
| Explosion-tested version                   | no                    |
| Telecommunications contact                 | no                    |
| Total discharge current (10/350)           | D1: 2 kA              |
| Total discharge current (8/20)             | 10 kA                 |
| Cut-off frequency                          | 100 MHz               |
| Maximum continuous voltage AC              | 41 V                  |
| Maximum continuous voltage DC              | 58 V                  |
| Insulation resistance                      | >100 MΩ               |
| Capacity (wire-wire)                       | < 40 pF               |
| Kategorie                                  | Type 1+2+3 / D1+C2+C1 |
| Lightning protection zone LPZ              | 0→3                   |
| Mounting type                              | DIN rail 35 mm        |
| Nominal load current AC                    | 0.4 A                 |
| Nominal load current DC                    | 0.58 A                |
| Nominal voltage                            | 48 V                  |
| Testing standard                           | IEC 61643-21          |
| Shielding connection available             | yes                   |
| Screening                                  | Direct                |
| Protection rating                          | IP20                  |
| Protection level @ C1                      | <110 V                |
| Protection level wire-wire                 | <95 V                 |
| Protection level wire-earth                | <800 V                |

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|----------------|-----------------------------------|-------------------------------|
|                | Series resistance per wire        | 2,35 Ω ± 5 %                  |
|                | Signalling on device              | Readable                      |
|                | SPD to IEC 61643-21               | Class I+II+III / D1+C2+C1     |
|                | Plug-in system                    | Terminal                      |
|                | Impulse durability wire-wire      | C1: 0,5 kV / 0,25 kA (8/20µs) |
|                | Impulse durability wire-earth     | C2: 5 kV / 2,5 kA (8/20µs)    |
|                | Permitted temperature range, max. | 80 °C                         |
|                | Permitted temperature range, min. | -40 °C                        |
|                | Approvals                         | UL                            |
|                |                                   |                               |