

# Technical data sheet

## Series protection device, 2-pole, 24 V version



Item number: 5098425



Lightning barrier with test function; 24 V version

- Rated load current 10 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                        | 5098425                      |
| Type                               | MDP-2 D-24-T-10              |
| Description 1                      | Lightning barrier            |
| Description 2                      | 2-pin for high nom. currents |
| Manufacturer                       | OBO                          |
| Dimension                          | 24V                          |
| Smallest sales unit                | 1                            |
| Unit of quantity                   | Piece                        |
| Weight                             | 6 kg                         |
| Weight unit                        | kg/100 pc.                   |
| CO2 Footprint (GWP) Cradle-to-Gate | 0,3044 kg CO2e / 1 Piece     |

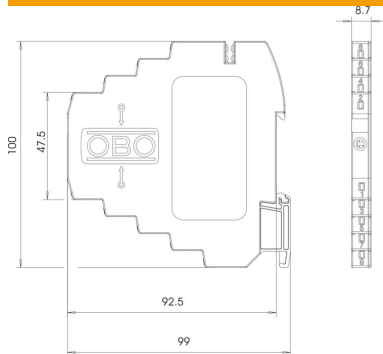
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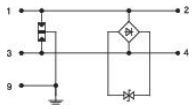


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## Dimensions



## Technical data



|  |                           |
|--|---------------------------|
| 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                            | 2                         |
| Insertion loss                             | ≤3 dB                     |
| Earthing via:                              | DIN rail                  |
| Total discharge current (10/350)           | D1: 1 kA                  |
| Total discharge current (8/20)             | 5 kA                      |
| Cut-off frequency                          | 100 MHz                   |
| Maximum continuous voltage AC              | 20 V                      |
| Maximum continuous voltage DC              | 28 V                      |
| Lightning impulse current                  | 0.5 kA                    |
| 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                  |
| Nominal load current AC                    | 0.7 A                     |
| Nominal load current DC                    | 10 A                      |
| Nominal voltage                            | 24 V                      |
| Testing standard                           | IEC 61643-21              |
| Shielding connection available             | yes                       |
| Screening                                  | Direct                    |
| Protection rating                          | IP20                      |
| Protection level @ C1                      | <65 V                     |
| Protection level wire-wire                 | <70 V                     |
| Protection level wire-earth                | <800 V                    |
| Signalling on device                       | Readable                  |
| SPD to IEC 61643-21                        | Class I+II+III / D1+C2+C1 |

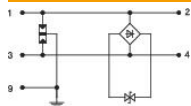
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|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Plug-in system                    | Terminal                            |
| Impulse durability wire-wire      | C1: 0,5 kV / 0,25 kA (8/20 $\mu$ s) |
| Permitted temperature range, max. | 80 °C                               |
| Permitted temperature range, min. | -40 °C                              |
| Approvals                         | UL                                  |