

# Technical data sheet

## Medium and fine protection FLD 2 for two-core systems 110 V

Item number: 5098859



Surge protection for use in measurement and control technology

- Medium and fine protection
- Standard design for single core systems
- Two-stage protection circuit
- With installation-friendly, screwless connection terminals
- In space-saving 17.5 mm grid
- With inductive decoupling in the longitudinal branch

Application: Universal use on any 35 mm DIN profile rail in every commercially available distributor housing.



| Master data                        |                             |  |
|------------------------------------|-----------------------------|--|
| Item number                        | 5098859                     |  |
| Type                               | FLD 2-110                   |  |
| Description 1                      | Lightning barrier           |  |
| Description 2                      | with decoupling inductivity |  |
| Manufacturer                       | OBO                         |  |
| Dimension                          | 110V AC                     |  |
| Smallest sales unit                | 1                           |  |
| Unit of quantity                   | Piece                       |  |
| Weight                             | 5.1 kg                      |  |
| Weight unit                        | kg/100 pc.                  |  |
| CO2 Footprint (GWP) Cradle-to-Gate | 0,1438 kg CO2e / 1 Piece    |  |

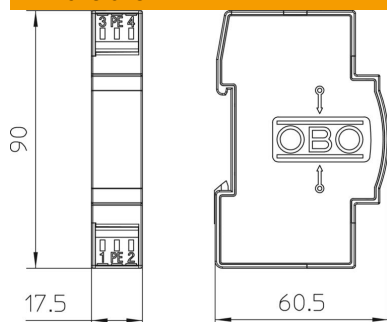
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### Dimensions



### 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. | 2.5 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                             | 3dB @ 150 kHz dB           |
| Earthing via:                              | Terminal                   |
| Explosion-tested version                   | no                         |
| Telecommunications contact                 | no                         |
| Total discharge current (8/20)             | 5 kA                       |
| Maximum continuous voltage AC              | 86 V                       |
| Maximum continuous voltage DC              | 122 V                      |
| Insulation resistance                      | >1MΩ                       |
| Capacity (wire-wire)                       | < 1 nF                     |
| Capacity (wire-earth)                      | <10 nF                     |
| Kategorie                                  | Type 2+3 / C2+C1           |
| Lightning protection zone LPZ              | 1→3                        |
| Mounting type                              | DIN rail 35 mm             |
| Nominal discharge current (8/20 μs)        | 0.5 kA                     |
| Nominal load current AC                    | 0.7 A                      |
| Nominal load current DC                    | 1 A                        |
| Testing standard                           | IEC 61643-21               |
| Shielding connection available             | no                         |
| Protection rating                          | IP20                       |
| Protection level wire-wire                 | <500 V                     |
| Protection level wire-earth                | <300 V                     |
| Series inductivity per wire                | 120 μH ± 10 %              |
| SPD to IEC 61643-21                        | Class II+III / C2+C1       |
| Plug-in system                             | Terminal                   |
| Impulse durability wire-wire               | C2: 5 kV / 2.5 kA (8/20μs) |

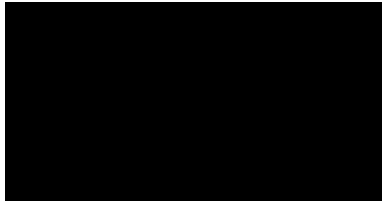
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|                                   |                            |
|-----------------------------------|----------------------------|
| Impulse durability wire-earth     | C2: 5 kV / 2,5 kA (8/20µs) |
| Division unit TE (17.5 mm)        | 1                          |
| Permitted temperature range, max. | 80 °C                      |
| Permitted temperature range, min. | -40 °C                     |
| Approvals                         | UL                         |