

# Technical data sheet

## Lightning current and surge arrester, 3-pole + NPE with remote signalling

Item number: 5093662



Combination arrester, lightning and surge arrester type 1+2 to DIN EN 61643-11.

- For lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity 12.5 kA (10/350) per pole
- Universally suitable for TN and TT systems
- With Multibase base with multi-connection terminals
- Complete unit, consisting of upper part and base, pre-mounted and ready for connection
- Arrester, connectable with dynamic cut-off unit
- With visual function display
- Protection level < 1.3
- Encapsulated, non-extinguishing zinc oxide varistor arrester for use in distributor housings
- Labelled connections
- FS variant with remote signalling contact (potential-free NO contact)

Application: Equipotential bonding in buildings, even those with external lightning protection of Class III and IV, and in standard distributor housings.

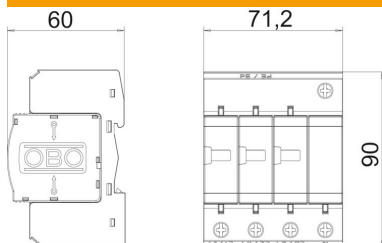
\* Complete = Plug-in arrester and base



### Master data

|                                    |                               |
|------------------------------------|-------------------------------|
| Item number                        | 5093662                       |
| Type                               | V50-B+C 3+NPE+FS              |
| Description 1                      | CombiController V50           |
| Description 2                      | 3-pole + NPE w. remote signal |
| Manufacturer                       | OBO                           |
| Dimension                          | 280V                          |
| Smallest sales unit                | 1                             |
| Unit of quantity                   | Piece                         |
| Weight                             | 55 kg                         |
| Weight unit                        | kg/100 pc.                    |
| CO2 Footprint (GWP) Cradle-to-Gate | 1,8227 kg CO2e / 1 Piece      |

### Dimensions



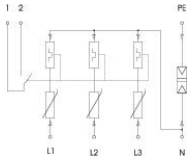
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|  |                     |
|--|---------------------|
| Arrester surge current (8/20 $\mu$ s) [total]                | 50 kA               |
| Response time  | <25 ns              |
| Blow-out   | no                  |
| Version for  | 3+NPE + FS          |
| Pole version   | 3+N/PE              |
| Structural width in division units (division unit, 17.5 mm)  | 4                   |
| Operating temperature, max.                                  | 80 °C               |
| Operating temperature, min.                                  | -40 °C              |
| Lightning surge current (10/350 $\mu$ s)                     | 12.5 kA             |
| Lightning surge current (10/350 $\mu$ s) [N/PE]              | 50 kA               |
| Lightning surge current (10/350 $\mu$ s)                     | 50 kA               |
| Remote signalling  | yes                 |
| Maximum continuous voltage (N-PE)                            | 255 V               |
| Maximum continuous voltage AC                                | 280 V               |
| Integrated back-up fuse                                      | no                  |
| Conductor cross-section, rigid (single-wire/multiwire), max. | 35 mm <sup>2</sup>  |
| Conductor cross-section, rigid (single-wire/multiwire), min. | 2.5 mm <sup>2</sup> |
| Lightning protection zone LPZ                                | 0→2                 |
| Max. mains-side overcurrent protection                       | 125                 |
| Maximum back-up fuse   | 125 A               |
| Maximum discharge current (8/20 $\mu$ s)                     | 50 kA               |
| Installation type  | DIN rail 35 mm      |
| Nominal discharge current (8/20 $\mu$ s)                     | 30 kA               |
| Nominal discharge current (8/20 $\mu$ s) [L-N]               | 30 kA               |
| Nominal discharge current (8/20 $\mu$ s) [N-PE]              | 50 kA               |
| Nominal voltage AC (50/60 Hz)                                | 230 V               |
| Network form   | Other               |
| DC network form  | no                  |
| IT network form  | no                  |
| Other network form   | no                  |
| TN network form  | yes                 |
| TN-C network form  | no                  |
| TN-C-S network form  | yes                 |
| TN-S network form  | yes                 |
| TT network form  | yes                 |
| Pole number  | 3                   |
| Protection rating  | IP20                |
| Protection level   | ≤1,3 kV             |
| Protection level [L-N]                                       | ≤1,3                |
| Protection level [N-PE]                                      | 1.5 kV              |
| Signalling on device   | Visual              |
| SPD to EN 61643-11   | Type 1+2            |
| SPD to IEC 61643-1   | Class I+II          |

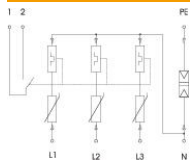
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|                                   |        |
|-----------------------------------|--------|
| Permitted temperature range, max. | 80 °C  |
| Permitted temperature range, min. | -40 °C |