

# Technical data sheet

## PV combination arrester V25, 900 V DC with remote signaling

Item number: 5097448



V25 combination arrester, type 1+2, for PV systems with FS contact as potential-free changeover

- Complete unit, consisting of plug-in varistor arrester with cut-off unit
- Error-resistant Y circuit for use according to VDE 0100-712 (EN 50539-12)
- Surge protection equipotential bonding to VDE 0100-443 (IEC 60364-4-44)
- Arresting capacity to 7 kA (10/350) and 50 kA (8/20) per pole
- Low DC protection level: < 3.0 kV and Voc max. = 900 V DC
- With visual display for use in distributor housings

Application: PV systems with lightning protection system



### Master data

|                                    |                                |
|------------------------------------|--------------------------------|
| Item number                        | 5097448                        |
| Type                               | V25-B+C 3PHFS900               |
| Description 1                      | CombiController V25            |
| Description 2                      | three-pole for PV systems + RS |
| Manufacturer                       | OBO                            |
| Dimension                          | 900V DC                        |
| Smallest sales unit                | 1                              |
| Unit of quantity                   | Piece                          |
| Weight                             | 53.5 kg                        |
| Weight unit                        | kg/100 pc.                     |
| CO2 Footprint (GWP) Cradle-to-Gate | 1,0347 kg CO2e / 1 Piece       |

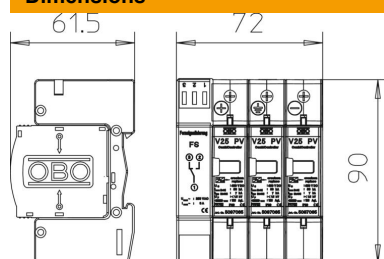
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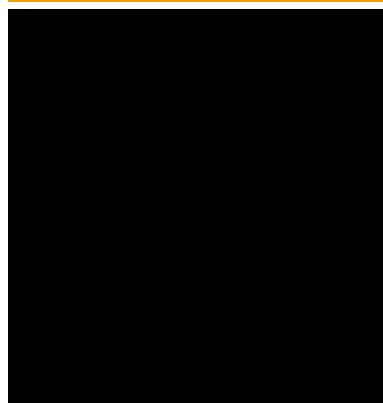
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## Dimensions



## Technical data



|                                                                 |                               |
|-----------------------------------------------------------------|-------------------------------|
| Response time                                                   | <25 ns                        |
| Blow-out                                                        | no                            |
| Version for                                                     | 3 pole for PV systems with RS |
| Pole version                                                    | 3                             |
| Structural width in division units<br>(division unit, 17.5 mm)  | 4                             |
| Operating temperature, max.                                     | 80 °C                         |
| Operating temperature, min.                                     | -40 °C                        |
| Lightning surge current (10/350<br>µs)                          | 7 kA                          |
| Remote signalling                                               | yes                           |
| FM contacts                                                     | Changeover                    |
| Suitable for outdoor use                                        | no                            |
| Maximum continuous voltage DC                                   | 900 V                         |
| Conductor cross-section, rigid<br>(single-wire/multiwire), max. | 35 mm²                        |
| Conductor cross-section, rigid<br>(single-wire/multiwire), min. | 2.5 mm²                       |
| Lightning protection zone LPZ                                   | 0→2                           |
| Max. mains-side overcurrent protection                          | 160                           |
| Maximum back-up fuse                                            | 160 A                         |
| Maximum discharge current (8/20<br>µs)                          | 50 kA                         |
| Installation type                                               | DIN rail 35 mm                |
| Nominal discharge current (8/20<br>µs)                          | 30 kA                         |
| Nominal discharge current (8/20<br>µs) [L-N]                    | 30 kA                         |
| Network form                                                    | DC                            |
| DC network form                                                 | yes                           |
| IT network form                                                 | no                            |
| Other network form                                              | no                            |
| TN network form                                                 | no                            |
| TN-C network form                                               | no                            |
| TN-C-S network form                                             | no                            |
| TN-S network form                                               | no                            |
| TT network form                                                 | no                            |
| ROHS-conformant                                                 | yes                           |
| Protection rating                                               | IP20                          |
| Protection level                                                | ≤3,0 kV                       |
| Signalling on device                                            | Visual                        |

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|                                      |            |
|--------------------------------------|------------|
| SPD to EN 61643-11                   | Type 1+2   |
| SPD to IEC 61643-11                  | Class I+II |
| Permitted temperature range, max.    | 80 °C      |
| Permitted temperature range, min.    | -40 °C     |
| Number of conductors (without earth) | 2          |