

# Technical data sheet

## PV surge protection V20 2pole 1000 V DC



Item number: 5094617



V20 surge arrester, Type 2, for earthed photovoltaic systems

- Complete unit consisting of varistor arrester with cut-off unit
- For PV systems directly earthed on DC side to VDE 0100-712 (EN 50539-12)
- Surge protection equipotential bonding to VDE 0100-443 (IEC 60364-4-44)
- V20-C 3-PH-1000 tested to EN 50539-11 (VDE / KEMA)
- Arresting capacity to 40 kA (8/20) per pole
- Low DC voltage protection level: < 4.0 kV and Voc max = 1,000 V DC
- With visual function display for use in distributor housings

Application: Directly earthed PV systems with or without isolated lightning protection system



| Master data                        |                            |  |
|------------------------------------|----------------------------|--|
| Item number                        | 5094617                    |  |
| Type                               | V20-C 2-PH-1000            |  |
| Description 1                      | SurgeController V20        |  |
| Description 2                      | two-pole for photovoltaics |  |
| Manufacturer                       | OBO                        |  |
| Dimension                          | 1000V DC                   |  |
| Smallest sales unit                | 1                          |  |
| Unit of quantity                   | Piece                      |  |
| Weight                             | 27 kg                      |  |
| Weight unit                        | kg/100 pc.                 |  |
| CO2 Footprint (GWP) Cradle-to-Gate | 0,8821 kg CO2e / 1 Piece   |  |

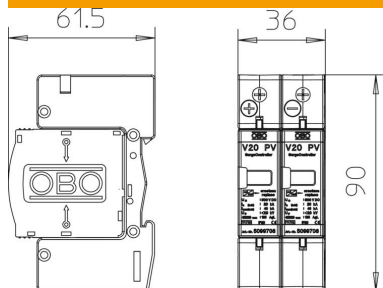
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### Dimensions



### Technical data

|                                                                 |                               |
|-----------------------------------------------------------------|-------------------------------|
| Response time                                                   | <25 ns                        |
| Blow-out                                                        | no                            |
| Version for                                                     | 2-pole for earthed PV systems |
| Pole version                                                    | 2                             |
| Structural width in division units<br>(division unit, 17.5 mm)  | 2                             |
| Operating temperature, max.                                     | 80 °C                         |
| Operating temperature, min.                                     | -40 °C                        |
| Remote signalling                                               | no                            |
| Maximum continuous voltage DC                                   | 1000 V                        |
| Conductor cross-section, rigid<br>(single-wire/multiwire), max. | 35 mm <sup>2</sup>            |
| Conductor cross-section, rigid<br>(single-wire/multiwire), min. | 2.5 mm <sup>2</sup>           |
| Lightning protection zone LPZ                                   | 1→2                           |
| Max. mains-side overcurrent protection                          | 125                           |
| Maximum back-up fuse                                            | 125 A                         |
| Maximum discharge current (8/20<br>µs)                          | 40 kA                         |
| Installation type                                               | DIN rail 35 mm                |
| Nominal discharge current (8/20<br>µs)                          | 20 kA                         |
| Network form                                                    | Other                         |
| DC network form                                                 | yes                           |
| Test class, type 2                                              | yes                           |
| Protection rating                                               | IP20                          |
| Protection level                                                | ≤4,0                          |
| Signalling on device                                            | Visual                        |
| SPD to EN 61643-11                                              | Type 2                        |
| SPD to IEC 61643-1                                              | Class II                      |
| Permitted temperature range,<br>max.                            | 80 °C                         |
| Permitted temperature range,<br>min.                            | -40 °C                        |