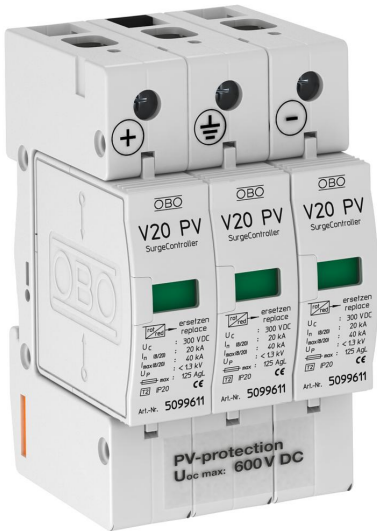


Technical data sheet

PV surge protection V20, 600 V DC

Item number: 5094605



- V20 surge arrester, type 2, for PV systems
- 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)
  - For surge protection equipotential bonding to VDE 0100-443 (IEC 60364-4-44)
  - Arresting capacity to 40 kA (8/20) per pole
  - Low DC protection level: < 2.6 kV (Voc max = 600 V DC)
  - Arrester, connectable with thermodynamic cut-off unit and visual function display
  - Encapsulated, zinc oxide varistor arrester for use in distributor housings

Application: PV systems with or without separate lightning protection system



| Master data                        |                           |  |
|------------------------------------|---------------------------|--|
| Item number                        | 5094605                   |  |
| Type                               | V20-C 3PH-600             |  |
| Description 1                      | SurgeController V20       |  |
| Description 2                      | three-pole for PV systems |  |
| Manufacturer                       | OBO                       |  |
| Dimension                          | 600V DC                   |  |
| Smallest sales unit                | 1                         |  |
| Unit of quantity                   | Piece                     |  |
| Weight                             | 33.5 kg                   |  |
| Weight unit                        | kg/100 pc.                |  |
| CO2 Footprint (GWP) Cradle-to-Gate | 1,0125 kg CO2e / 1 Piece  |  |

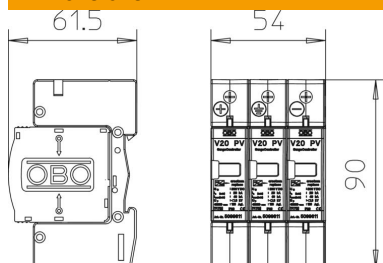
# Technical data sheet

## PV surge protection V20, 600 V DC

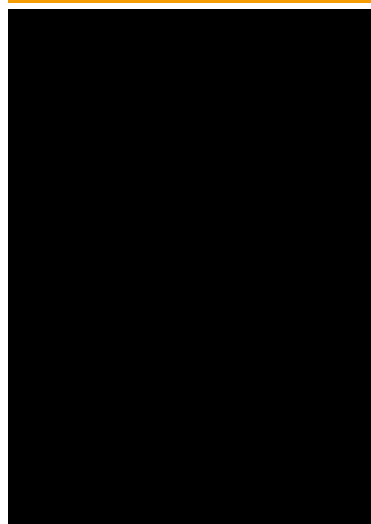
Item number: 5094605



### Dimensions



### Technical data



|                                                                 |                       |
|-----------------------------------------------------------------|-----------------------|
| Response time                                                   | <25 ns                |
| Blow-out                                                        | no                    |
| Version for                                                     | 3-pole for PV systems |
| Pole version                                                    | 3                     |
| Structural width in division units<br>(division unit, 17.5 mm)  | 3                     |
| Operating temperature, max.                                     | 80 °C                 |
| Operating temperature, min.                                     | -40 °C                |
| Remote signalling                                               | no                    |
| Maximum continuous voltage DC                                   | 600 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                 |
| Test class, type 2                                              | yes                   |
| Protection rating                                               | IP20                  |
| Protection level                                                | ≤2,6                  |
| Protection level wire-wire                                      | < 2,6 V               |
| Protection level wire-earth                                     | < 2,6 V               |
| 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                |