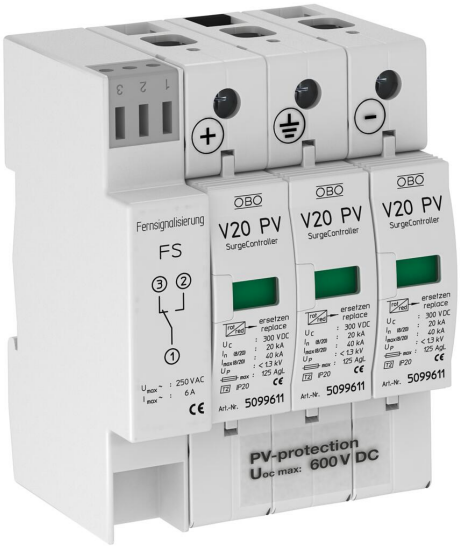
Technical data sheet

PV surge protection V20, 600 V DC with remote signalling

Item number: 5094576



V20 surge arrester, type 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)
- 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

Type 2 LPZ 1→2

Master data

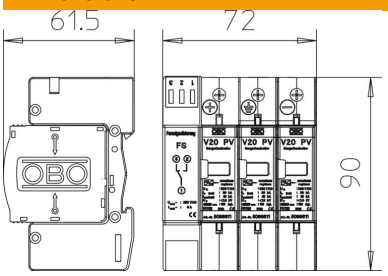
Item number	5094576
Type	V20-C 3PHFS-600
Description 1	SurgeController V20
Description 2	three-pole for PV systems + RS
Manufacturer	OBO
Dimension	600V DC
Smallest sales unit	1
Unit of quantity	Piece
Weight	41.5 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	1,0775 kg CO2e / 1 Piece

Technical data sheet

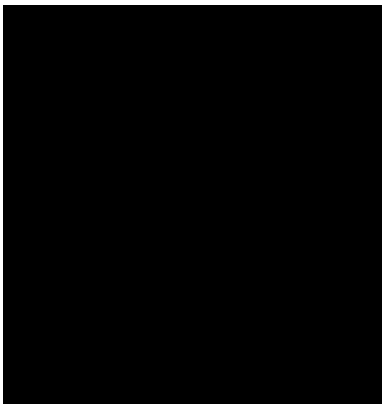
PV surge protection V20, 600 V DC with remote signalling

Item number: 5094576

Dimensions



Technical data



Response time	<25 ns
Blow-out	no
Version for	3-pole for PV systems; Y circuit with FS
Pole version	3
Structural width in division units (division unit, 17.5 mm)	4
Operating temperature, max.	80 °C
Operating temperature, min.	-40 °C
Remote signalling	yes
FM contacts	Changeover
Maximum continuous voltage DC	600 V
Conductor cross-section, rigid (single-wire/multiwire), max.	35 mm²
Conductor cross-section, rigid (single-wire/multiwire), min.	2.5 mm²
Lightning protection zone LPZ	1→2
Max. mains-side overcurrent protection	125
Maximum back-up fuse	125 A
Maximum discharge current (8/20 µs)	40 kA
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 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, max.	80 °C
Permitted temperature range, min.	-40 °C