

Technical data sheet

PV SurgeController V20, plug-in arrester, type 2

Item number: 5099708



SurgeController upper part - type 2, surge arrester for photovoltaic systems

- For surge protection equipotential bonding to VDE 0100-443 (IEC 60364-4-44)
- Arresting capacity to 40 kA (8/20) per pole
- Low DC voltage protection level: < 2.0 kV per pole (Y circuit: 4.0 kV and Voc max = 1,000 V DC)
- Plug-in arrester with thermodynamic cut-off unit and visual function display
- Encapsulated, non-extinguishing zinc oxide varistor arrester for use in distributor housings
- High current carrying capacity with long lifespan

Application example: PV systems with or without separated insulated lightning protection system



Master data		
Item number	5099708	
Type	V20-C 0-500PV	
Description 1	SurgeController V20	
Description 2	plug-in arrester f. PV systems	
Manufacturer	OBO	
Dimension	500V DC	
Smallest sales unit	1	
Unit of quantity	Piece	
Weight	6.5 kg	
Weight unit	kg/100 pc.	
CO2 Footprint (GWP) Cradle-to-Gate	0,1602 kg CO2e / 1 Piece	

Dimensions	

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Response time	<25 ns
Version for	1-pole, PV upper part with Y base to 1,000 V DC
Pole version	1
Structural width in division units (division unit, 17.5 mm)	1
Operating temperature, max.	80 °C
Operating temperature, min.	-40 °C
Remote signalling	no
Maximum continuous voltage AC	440 V
Maximum continuous voltage DC	500 V
Integrated back-up fuse	no
Conductor cross-section, rigid (single-wire/multiwire), max.	35 mm ²
Conductor cross-section, rigid (single-wire/multiwire), min.	2.5 mm ²
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	On basic element
Nominal discharge current (8/20 µs)	20 kA
Nominal voltage AC (50/60 Hz)	400 V
Network form	TN
DC network form	yes
IT network form	no
Other network form	no
TN network form	yes
TN-C network form	yes
TN-C-S network form	yes
TN-S network form	yes
TT network form	yes
Test class, type 2	yes
ROHS-conformant	yes
Protection rating	IP20
Protection level	≤2,0 kV
Signalling on device	Visual
SPD to EN 61643-11	Type 2
SPD to IEC 61643-11	Class II
Permitted temperature range, max.	80 °C
Permitted temperature range, min.	-40 °C