Technical data sheet

PV complete block 1,000 V DC

Item number: 5094230

Type 1 + 2 combination arrester for lightning and surge protection of PV systems.

• Lightning protection equipotential bonding according to IEC 62305 (VDE 0185-305)
• Surge protection according to IEC 60364-7-712 (VDE 0100-712)
• Arresting capacity to 12.5 kA (10/350) and 40 kA (8/20)
• Error-resistant Y circuit with status display
• The FS variant possesses a potential-free changeover contact for remote signalling

Application: Lightning current and surge protective devices for PV systems.

LPZ 0→2 Type 1+2

Master data

Item number	5094230
Type	V-PV-T1+2-1000
Description 1	CombiController V-PV
Description 2	Y-connection for PV systems
Manufacturer	OBO
Dimension	1000V DC
Colour	Grey
Smallest sales unit	1
Unit of quantity	Piece
Weight	40.7 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	0,1389 kg CO2e / 1 Piece

Technical data sheet

PV complete block 1,000 V DC

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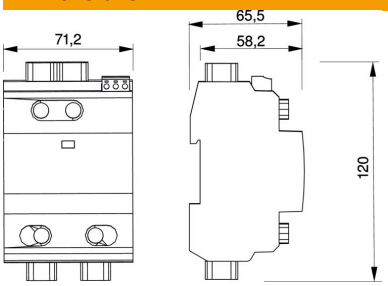
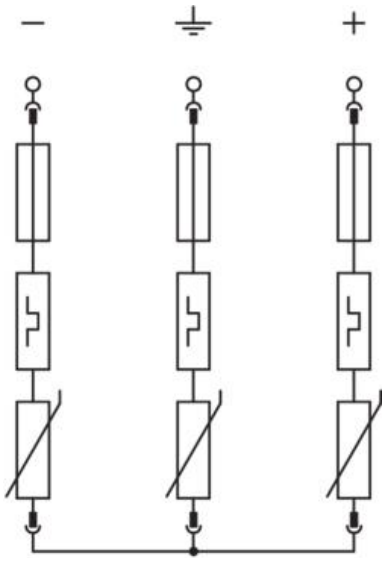
Dimensions



Length	65.5 mm
Width	71.2 mm
Height	120 mm

Technical data



Arrester surge current (8/20 µs) [total]	40 kA
Response time	<25 ns
Blow-out	no
Version for	Y configuration
Pole version	Other
Structural width in division units (division unit, 17.5 mm)	4
Operating temperature, max.	80 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 µs)	6.25 kA
Lightning surge current (10/350)	12.5 kA
Remote signalling	no
Maximum continuous voltage DC	1000 V
Integrated back-up fuse	no
Conductor cross-section, flexible (fine-wire), max.	35 mm²
Conductor cross-section, flexible (fine-wire), min.	2.5 mm²
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	0→2
Max. PV voltage	1000 V
Maximum discharge current (8/20 µs)	40 kA
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 µs)	20 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
OBO_Nominal load current (input/output terminal)	50 A

Technical data sheet

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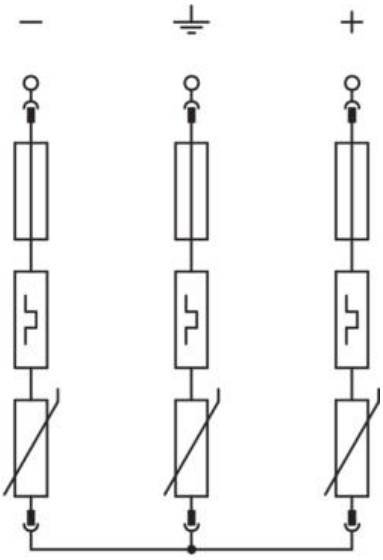

Test class, type 1	yes
Test class, type 2	yes
ROHS-conformant	yes
Protection rating	IP20
Protection level	≤3,3 kV
Signalling on device	Visual
SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-11	Class I+II
Permitted temperature range, max.	80 °C
Permitted temperature range, min.	-40 °C