

# Technical data sheet

## PV combination arrester 1,100 V

Item number: 5094250



Combination arrester, type 1+2, for PV systems

- Complete unit of pluggable varistor arrester with cut-off unit
- Surge protection equipotential bonding to IEC 60364-7-712
- Tested according to EN 61643-31
- Discharge capacity up to 6.25 kA (10/350) and 40 kA (8/20) per pole
- Low DC protection level: < 3.8 kV and Uoc max = 1,100 V DC
- With visual function display for the use in distributor housings



### Master data

Item number	5094250
Type	PV-T1+2-1100
Description 1	PV CombiController
Description 2	three-pole for PV systems
Manufacturer	OBO
Dimension	1100V DC
Smallest sales unit	1
Unit of quantity	Piece
Weight	46.9 kg
Weight unit	kg/100 pc.

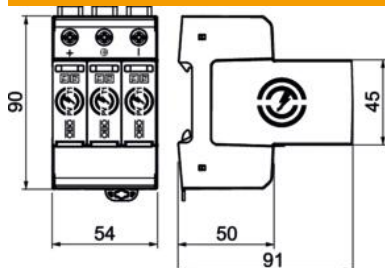
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### Dimensions



Length	91 mm
Width	54 mm
Height	95 mm

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Arrester surge current (8/20 $\mu$ s) [total]	50 kA
Connection cross-section (min.)	1.5 mm <sup>2</sup>
Response time	<25 ns
Version for	3-pole for PV systems
Pole version	Other
Structural width in division units (division unit, 17.5 mm)	3
Lightning surge current (10/350 $\mu$ s)	6.25 kA
Lightning surge current (10/350)	12.5 kA
Torque	39.9 Lbs
Torque	4.5 Nm
Installation location	Interior
Remote signalling	no
FM contacts	Changeover
Function/defect display	Visual
Suitable for outdoor use	no
Maximum continuous voltage DC	1100 V
Integrated back-up fuse	no
Conductor cross-section, flexible (fine-wire), max.	25 mm <sup>2</sup>
Conductor cross-section, flexible (fine-wire), max.	4 AWG
Conductor cross-section, flexible (fine-wire), min.	16 AWG
Conductor cross-section, flexible (fine-wire), min.	1.5 mm <sup>2</sup>
Conductor cross-section, rigid (single-wire/multiwire), max.	2 AWG
Conductor cross-section, rigid (single-wire/multiwire), max.	35 mm <sup>2</sup>
Conductor cross-section, rigid (single-wire/multiwire), min.	16 AWG
Conductor cross-section, rigid (single-wire/multiwire), min.	1.5 mm <sup>2</sup>
Lightning protection zone LPZ	0→2
Humidity, min.	5 %
Humidity, max.	95 %
Max. mains-side overcurrent protection	160
Max. PV voltage	1100 V

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Maximum back-up fuse	160 A
Maximum discharge current (8/20 µs)	40 kA
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 µs)	30 kA
Nominal discharge current (8/20 µs) [L-N]	30 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
Pole number	3
Ports	One-Port SPD
Switching power AC	250 V; 1,0 A / 125 V; 1,0 A
Switching power DC	48 V; 0,5 A / 24 V; 0,5 A / 12 V; 0,5 A
Protection rating	IP20
Protective conductor current	< 2 µA
Protection level	≤3,8 kV
Signalling on device	Visual
SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-1	Class I+II
Permitted temperature range, max.	85 °C
Permitted temperature range, min.	-40 °C
Number of conductors (without earth)	2