

Technical data sheet

PV surge arrester 1,100 V with remote signalling

Item number: 5094294



Surge arrester, type 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 40 kA (8/20) per pole
- Low DC protection level: < 3.8 kV and $U_{oc\ max} = 1,100\ V\ DC$
- With visual function display for the use in distributor housings
- With RS contact as potential-free changeover



Master data

Item number	5094294
Type	PV-T2+FS-1100
Description 1	PV CombiController
Description 2	three-pole for PV systems + RS
Manufacturer	OBO
Dimension	1100V DC
Smallest sales unit	1
Unit of quantity	Piece
Weight	40.1 kg
Weight unit	kg/100 pc.

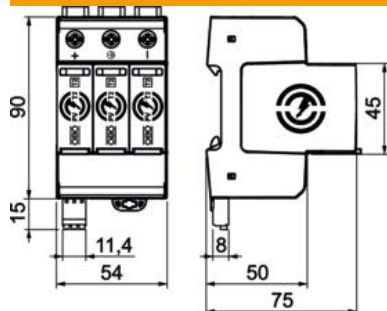
Technical data sheet

PV surge arrester 1,100 V with remote signalling

Item number: 5094294



Dimensions



Length	75 mm
Width	54 mm
Height	110 mm

Technical data

Connection cross-section (min.)	1.5 mm ²
Connection cross-section, FM terminals, max.	16 AWG
Connection cross-section, FM terminals, max.	1.5 mm ²
Connection cross-section, FM terminals, min.	23 AWG
Connection cross-section, FM terminals, min.	0.25 mm ²
Response time	<25 ns
Version for	3-pole for PV systems
Pole version	3
Structural width in division units (division unit, 17.5 mm)	3
Torque	39.9 Lbs
Torque	4.5 Nm
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.	35 mm ²
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.	2.5 mm ²
Conductor cross-section, rigid (single-wire/multiwire), max.	2 AWG
Conductor cross-section, rigid (single-wire/multiwire), max.	35 mm ²
Conductor cross-section, rigid (single-wire/multiwire), min.	16 AWG
Conductor cross-section, rigid (single-wire/multiwire), min.	2.5 mm ²
Lightning protection zone LPZ	0→2
Humidity, min.	5 %
Humidity, max.	95 %
Max. PV voltage	1100 V

Technical data sheet

PV surge arrester 1,100 V with remote signalling

Item number: 5094294



Technical data

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
Pole number	3
Ports	One-Port SPD
Test class, type 2	yes
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
Protection level	≤3,8 kV
Signalling on device	Visual
SPD to EN 61643-11	Type 2
SPD to IEC 61643-1	Class II
Permitted temperature range, max.	85 °C
Permitted temperature range, min.	-40 °C
Number of conductors (without earth)	2