

Technical data sheet

Surge arrester V10 – Mini

Item number: 5094946



Surge protective device, compact module, type 2+3

- Surge protection in the smallest of spaces, e.g. in AC charging stations
- Discharge capacity up to 20kA (L-N) and 40kA (N-PE)
- Integrated 3+1-solution for TN and TT network systems with a 35 mm module width
- Including thermal and dynamic cut-off unit and visual function display
- Easy and quick installation thanks to FastOn connection terminals
- Wiring set (5089657 – WS-V10-3+1) available
- Including a potential-free break contact for remote signalling



Master data

Item number	5094946
Type	V10-3+1+FS-300-M
Description 1	SurgeController V10
Description 2	3-pole with NPE and RS
Manufacturer	OBO
Dimension	300V
Smallest sales unit	1
Unit of quantity	Piece
Weight	13.2 kg
Weight unit	kg/100 pc.

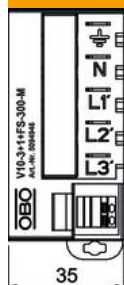
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Dimensions



Length	38 mm
Width	35 mm
Height	76 mm

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Arrester surge current (8/20 µs) [total]	60 kA
Connection cross-section, FM terminals, min.	16 AWG
Connection cross-section, FM terminals, min.	1.5 mm ²
Response time [L-N]	< 25 ns
Response time [N-PE]	<100 ns
Version for	3+NPE
Pole version	3+N/PE
Structural width in division units (division unit, 17.5 mm)	Miscellaneous
Installation location	Interior
Remote signalling	yes
FM contacts	NC contact
Follow current quenching capacity (eff) [N-PE]	0.1 kA
Function/defect display	Visual
Suitable for outdoor use	no
Maximum continuous voltage (L-N)	300 V
Maximum continuous voltage (N-PE)	255 V
Integrated back-up fuse	no
Conductor cross-section, rigid (single-wire/multiwire), max.	10 mm ²
Conductor cross-section, rigid (single-wire/multiwire), min.	2.5 mm ²
Lightning protection zone LPZ	1→3
Humidity, min.	5 %
Humidity, max.	95 %
Max. mains-side overcurrent protection	63 A gG
Maximum back-up fuse	63 A
Maximum discharge current (8/20 µs) [L-N]	20 kA
Maximum discharge current (8/20 µs) [N-PE]	40 kA
Minimum distance	0 mm
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 µs)	10 kA

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Nominal frequency	50 Hz
Nominal voltage AC (50/60 Hz)	240 V
Network form	All
DC network form	no
IT network form	no
Other network form	no
TN network form	yes
TN-C network form	no
TN-C-S network form	yes
TN-S network form	yes
TT network form	yes
OBO_Nominal load current (input/output terminal)	32 A
Ports	One-Port SPD
Test class, type 2	yes
Test class, type 3	yes
ROHS-conformant	yes
Switching power AC	250V / 1A ; 125V / 1A
Switching power DC	48V / 0,5A; 24V / 0,5A; 12V / 0,5A
Protection rating	IP20
Protective conductor current	< 5 µA
Protection level	≤1,5 kV
Signalling on device	Visual
SPD to EN 61643-11	Type 2+3
SPD to IEC 61643-11	Class II+III
Permitted temperature range, max.	85 °C
Permitted temperature range, min.	-40 °C
TOV voltage [L-N] – fail safe mode – 120 min.	442 V
TOV voltage [L-N] – withstand mode – 5 s	337 V
TOV voltage [N-PE] – withstand mode – 200 ms	1200 V
Number of conductors (without earth)	4