Technical data sheet

Surge arrester V20 with integrated pre-fuse

Item number: 5095257

Surge arrester, type 2+3
- For surge protection equipotential bonding to VDE 0100-443 (IEC 60364-4-44)
- Integrated pre-fuse in the arrester
- Protection level < 1.5 kV
- Including a potential-free changeover contact for remote signalling

Type 2 | LPZ 1→2 | FS

Master data

Item number	5095257
Type	V20-CF-3+1FS-300
Description 1	SurgeController V20
Description 2	3-pole with NPE and RS
Manufacturer	OBO
Dimension	300V
Smallest sales unit	1
Unit of quantity	Piece
Weight	51.8 kg
Weight unit	kg/100 pc.

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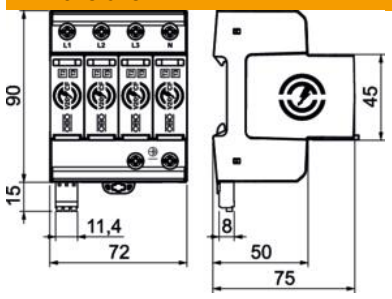
Dimensions



Length	75 mm
Width	72 mm
Height	105 mm

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Arrester surge current (8/20 µs) [total]	65 kA
Connection cross-section (min.)	1.5 mm²
Connection cross-section, FM terminals, max.	16 AWG
Connection cross-section, FM terminals, max.	1.5 mm²
Connection cross-section, FM terminals, min.	23 AWG
Connection cross-section, FM terminals, min.	0.25 mm²
Response time [L-N]	25 ns
Response time [N-PE]	100 ns
Blow-out	no
Pole version	3+N/PE
Structural width in division units (division unit, 17.5 mm)	4
Torque	39.9 Lbs
Torque	4.5 Nm
Installation location	Interior
Remote signalling	yes
FM contacts	Changeover
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)	305 V
Maximum continuous voltage AC	300 V
Integrated back-up fuse	yes
Short-circuit resistant	yes
Short-circuit resistance for max. mains-side overcurrent protection	50 kA eff
Conductor cross-section, flexible (fine-wire), max.	35 mm²
Conductor cross-section, flexible (fine-wire), max.	4 AWG
Conductor cross-section, flexible (fine-wire), min.	16 AWG

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Conductor cross-section, flexible (fine-wire), min.	2.5 mm²
Conductor cross-section, rigid (single-wire/multiwire), max.	2 AWG
Conductor cross-section, rigid (single-wire/multiwire), max.	35 mm²
Conductor cross-section, rigid (single-wire/multiwire), min.	16 AWG
Conductor cross-section, rigid (single-wire/multiwire), min.	2.5 mm²
Humidity, min.	5 %
Humidity, max.	95 %
Maximum discharge current (8/20 µs) [L-N]	40 kA
Maximum discharge current (8/20 µs) [N-PE]	65 kA
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 µs)	20 kA
Nominal discharge current (8/20 µs) [L-N]	20 kA
Nominal discharge current (8/20 µs) [N-PE]	40 kA
Nominal frequency	50 Hz
Nominal voltage AC (50/60 Hz)	230 V
Network form	Other
DC network form	no
IT network form	no
Other network form	no
TN network form	no
TN-C network form	no
TN-C-S network form	yes
TN-S network form	yes
TT network form	yes
Pole number	4
Ports	One-Port SPD
Test class, type 1	no
Test class, type 2	yes
Residual voltage [L-N] @ 5 kA	1.15 kV
ROHS-conformant	yes
Switching power AC	230 V; 0,5 A
Switching power DC	230 V; 0,1 A / 75 V; 0,5 A
Protection rating	IP20
Protection level	≤1,5 kV
Protection level [L-N]	≤1,5
Protection level [N-PE]	1.5 kV
Signalling on device	Visual
SPD to EN 61643-11	Type 2+3
SPD to IEC 61643-11	Class II
Permitted temperature range, max.	85 °C
Permitted temperature range, min.	-40 °C
TOV voltage [L-N] – fail safe mode – 120 min.	442 V

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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