Technical data sheet

Lightning current arrester MC-C-NPE

Item number: 5096920

Lightning current arrester, type 1+2

• Protecion level < 2.5 kV
• Lightning protection equipotential bonding according to VDE 0185-305 (IEC 62305)
• Lightning current discharge capacity 100 kA (10/350)
• Follow current quenching Ifi 100 A
• Complies with the requirements for the use in the pre-meter area according to VDE-AR-N 4100
• The FS version has a potential-free changeover contact for remote signalling

Application: Without exception for 400/690 V network systems and for the lightning protection classes I to IV only.
* Complete = Plug-in arrester and base

5 | Type 1 | LPZ 0→2 | 230/400 V System

Master data

Item number	5096920
Type	MC-C-NPE-440
Description 1	Lightning current arrester
Description 2	N/PE
Manufacturer	OBO
Dimension	440V
Colour	Blue
Smallest sales unit	1
Unit of quantity	Piece
Weight	49.75 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	0,7321 kg CO2e / 1 Piece

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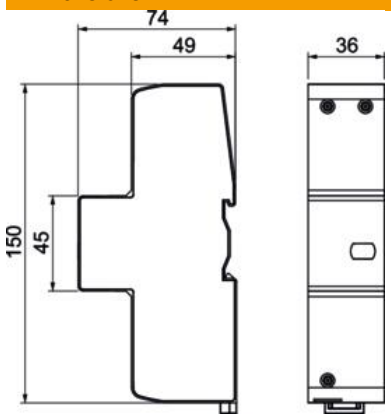
Dimensions



Length	150 mm
Width	36 mm
Height	74.5 mm

Technical data

Response time [N-PE]	<100 ns
Blow-out	no
Pole version	N/PE
Structural width in division units (division unit, 17.5 mm)	2
Operating temperature, max.	80 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 µs)	100 kA
Lightning surge current (10/350 µs) [N/PE]	100 kA
Installation location	Interior
Remote signalling	no
Follow current quenching capacity (eff) [N-PE]	0.1 kA
Function/defect display	Visual
Suitable for outdoor use	no
Maximum continuous voltage (N-PE)	440 V
Maximum continuous voltage AC	440 V
Integrated back-up fuse	no
Conductor cross-section, flexible (fine-wire), max.	25 mm²
Conductor cross-section, flexible (fine-wire), max.	3 AWG
Conductor cross-section, flexible (fine-wire), min.	10 AWG
Conductor cross-section, flexible (fine-wire), min.	6 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.	10 AWG
Conductor cross-section, rigid (single-wire/multiwire), min.	6 mm²

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Humidity, min.	5 %
Humidity, max.	95 %
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 µs)	100 kA
Nominal discharge current (8/20 µs) [L-N]	100 kA
Nominal voltage AC (50/60 Hz)	400 V
DC network form	no
IT network form	no
Other network form	no
TN network form	yes
TN-C network form	yes
TN-C-S network form	yes
TN-S network form	yes
TT network form	yes
Ports	One-Port SPD
Test class, type 1	yes
ROHS-conformant	yes
Protection rating	IP20
Protection level	≤2,5 kV
Protection level [N-PE]	2.5 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
TOV voltage [N-PE] – withstand mode – 200 ms	1200 V
Number of conductors (without earth)	1