Technical data sheet

Lightning current arrester, 1-pole NPE

Item number: 5096863

For use in TN-S and TT systems as N-PE discharge gap, type 1 (Class B) IEC 61643, for interface 0 to 1 (LPZ) according to lightning protection zone concept to IEC 61312-1 and/or DIN VDE 0185-305 Part 4 for use as discharge gap between N and PE.

• Complies with VDE-AR-N 4100

• Arresting capability 125 kA (10/350 µs)
• Incl. plug caps for labelling the connections
• Voltage protection level <2.5 kV
• Enclosed, non-extinguishing discharge gap: can be used in normal commercial distributor housings

Application example: lightning arrester in accordance with VDE-AR-N 4100 for pre-meter area.

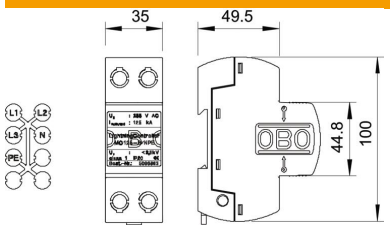
Note: Requires as a decoupling length for surge protection 5 m of cable.

230/ 400 V System | Type 1 | LPZ 0→1

Master data

Item number	5096863
Type	MC 125-B NPE
Description 1	LightningController
Description 2	for N to PE
Manufacturer	OBO
Dimension	255V
Smallest sales unit	1
Unit of quantity	Piece
Weight	52 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	2,4674 kg CO2e / 1 Piece

Dimensions



Length	100 mm
Width	35 mm
Height	69 mm

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Arrester surge current (8/20 µs) [total]	125 kA
Response time	<100 ns
Blow-out	no
Version for	1-pole; 255 V
Pole version	N/PE
Structural width in division units (division unit, 17.5 mm)	2
Operating temperature, max.	85 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 µs) [N/PE]	125 kA
Lightning surge current (10/350)	125 kA
Explosion-tested version	no
Remote signalling	no
Follow current quenching capacity (eff) [N-PE]	0.1 kA
Maximum continuous voltage AC	255 V
Short-circuit resistance	0 kA
Short-circuit resistance for max. mains-side overcurrent protection	0 kA
Conductor cross-section, rigid (single-wire/multiwire), max.	50 mm²
Conductor cross-section, rigid (single-wire/multiwire), min.	10 mm²
Lightning protection zone LPZ	0→1
Installation type	DIN rail 35 mm
Nominal voltage AC (50/60 Hz)	230 V
Network form	Other
Test class, type 1	yes
ROHS-conformant	yes
Protection rating	IP20
Protection level	≤2,5 kV
Signalling on device	None
SPD to EN 61643-11	Type 1
SPD to IEC 61643-11	Class I
Permitted temperature range, max.	85 °C
Permitted temperature range, min.	-40 °C