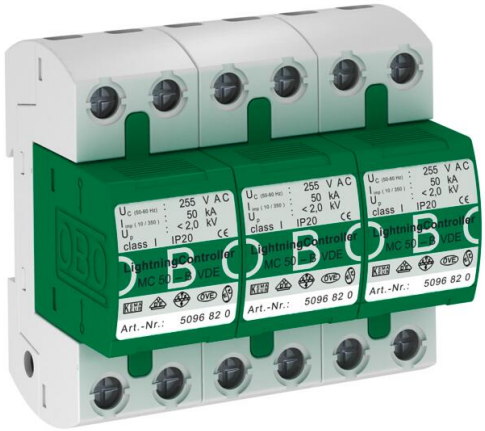
Technical data sheet

Lightning current arrester, 3-pole

Item number: 5096876



LightningController-Set, 3-pole, for use in TN-C networks:

Completely pre-terminated and ready for connection, consisting of:

Lightning current arrester, type 1, to EN 61643-11 for interface 0 to 1 (LPZ) according to lightning protection zone concept to IEC 61312-1 and DIN VDE 0185-305.

- Complies with VDE-AR-N 4100
- Cover and base, plug-in cover
- Arresting capacity 50 kA (10/350 µs) per pole
- Protection level < 2.0 kV
- Line following current quenching 25 kA Ipeak
- Incl. plug caps for labelling the connections
- Encapsulated, non-extinguishing spark gap: can be used in standard distributor housings

Application example: Industrial systems, lightning arrester in accordance with VDE-AR-N 4100 for the 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	5096876
Type	MC 50-B 3
Description 1	LightningController
Description 2	set for TN-C networks
Manufacturer	OBO
Dimension	255V
Smallest sales unit	1
Unit of quantity	Piece
Weight	117 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	6,3071 kg CO2e / 1 Piece

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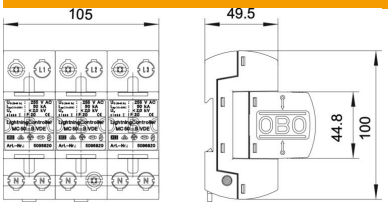
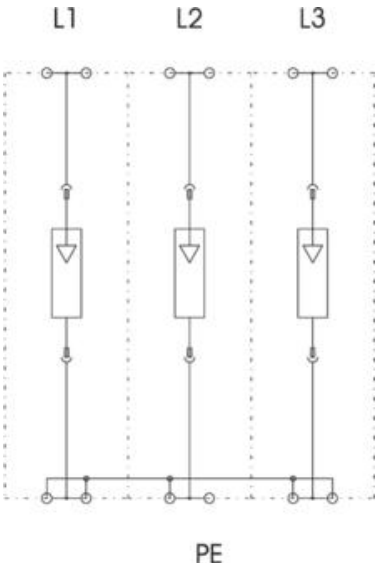
Dimensions



Length	100 mm
Width	105 mm
Height	69 mm

Technical data



Arrester surge current (8/20 µs) [total]	150 kA
Response time	<100 ns
Blow-out	no
Version for	3-pole
Pole version	3
Structural width in division units (division unit, 17.5 mm)	6
Operating temperature, max.	85 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 µs)	50 kA
Lightning surge current (10/350)	150 kA
Explosion-tested version	no
Remote signalling	no
Follow current quenching capacity (eff) [N-PE]	10 kA
Maximum continuous voltage AC	255 V
Short-circuit resistance	25 kA
Short-circuit resistance for max. mains-side overcurrent protection	25 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
Max. mains-side overcurrent protection	500
Maximum back-up fuse	500 A
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 µs)	50 kA
Nominal voltage AC (50/60 Hz)	230 V
Network form	Other
Test class, type 1	yes
Protection rating	IP20
Protection level	≤2,0
Signalling on device	None
SPD to EN 61643-11	Type 1
SPD to IEC 61643-1	Class I
Permitted temperature range, max.	85 °C
Permitted temperature range, min.	-40 °C