Technical data sheet

Combination arrester, 1-pole with function display

Item number: 5096852

Combination arrester, type 1+2, 1-pole, for use in TN and TT networks:

MCD 50-B-OS: Coordinated lightning current arrester, type 1+2 to EN 61643-11 with visual function display. For interface 0 to 2 (LPZ) in accordance with lightning protection zone concept to IEC 62305 and/or DIN VDE 0185-305.

- Arresting capacity 50 kA (10/350 µs) per pole
- Power consumption < 26 mW/pole
- Protection level < 1.7 kV, allows device protection
- Line follow current quenching 10 kA
- Incl. plug caps for labelling the connections
- Encapsulated, non-extinguishing spark gap
- Can be used in standard distributor housings

Application: Compact surge protection concepts and installations in a distributor.

Type 1+2 | LPZ 0→2 | 230/400 V System

Master data

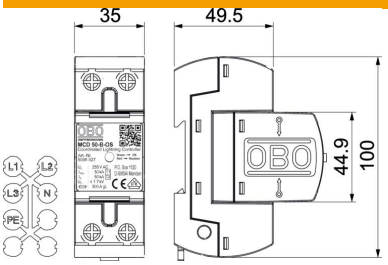
Item number	5096852
Type	MCD 50-B-OS
Description 1	CoordinatedLightningController
Description 2	with function display
Manufacturer	OBO
Dimension	255V
Smallest sales unit	1
Unit of quantity	Piece
Weight	34.8 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	2,0355 kg CO2e / 1 Piece

Technical data sheet

Combination arrester, 1-pole with function display

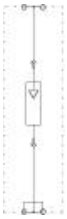
Item number: 5096852

Dimensions



Length	100 mm
Width	35 mm
Height	69 mm

Technical data



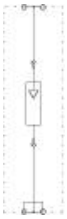
Arrester surge current (8/20 µs) [total]	50 kA
Response time	<100 ns
Blow-out	no
Version for	1-pole
Pole version	1
Structural width in division units (division unit, 17.5 mm)	2
Operating temperature, max.	85 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 µs)	50 kA
Lightning surge current (10/350)	50 kA
Remote signalling	no
Follow current quenching capacity leff	10
Maximum continuous voltage (L-N)	255 V
Maximum continuous voltage AC	255 V
Short-circuit resistance	10 kA
Short-circuit resistance for max. mains-side overcurrent protection	10 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→2
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 discharge current (8/20 µs) [L-N]	50 kA
Nominal voltage AC (50/60 Hz)	230 V
Network form	TN-S, TT
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

Technical data sheet

Combination arrester, 1-pole with function display

Item number: 5096852

Technical data



TN-S network form	yes
TT network form	yes
OBO_Nominal load current (input/output terminal)	125 A
Pole number	1
Test class, type 1	yes
Test class, type 2	yes
Protection rating	IP20
Protection level	≤1,7
Protection level [L-N]	≤1,7
Signalling on device	Visual
SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-1	Class I+II
Permitted temperature range, max.	85 °C
Permitted temperature range, min.	-40 °C
Approvals	VDE