

Technical data sheet

Combination arrester, 3-pole + NPE with function display

Item number: 5096836



Combination arrester, type 1+2, 4-pole, with visual function display, for use in TN-S and TT networks.

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

3x MCD 50-B-OS: Type 1+2 (Class B) coordinated lightning current arrester EN 61643-11.

1x MCD 125-B/NPE: Coordinated N-PE spark gap, type 1+2 EN 61643-11 for use in TN-S and TT systems.

Interface 0 to 2 (LPZ) according to lightning protection zone concept according to IEC 62305 and VDE 0185-305.

- Lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity to 50 kA (10/350) per pole and up to 125 kA (10/350) in total
- Protection level < 1.7 kV allows device protection
- Short-circuit resistance 10 kA, arrester backup fuse to 500 A gL/gG
- Power consumption < 26 mW/pole
- Encapsulated, non-extinguishing spark gap

Application: Industrial systems and buildings with external lightning protection of Classes I to IV.



Type	LPZ	230/400 V System
1+2	0→2	

Master data		
Item number	5096836	
Type	MCD 50-B 3+1-OS	
Description 1	CoordinatedLightningController	
Description 2	set with function display	
Manufacturer	OBO	
Dimension	255V	
Smallest sales unit	1	
Unit of quantity	Piece	
Weight	172 kg	
Weight unit	kg/100 pc.	
CO2 Footprint (GWP) Cradle-to-Gate	8,7853 kg CO2e / 1 Piece	

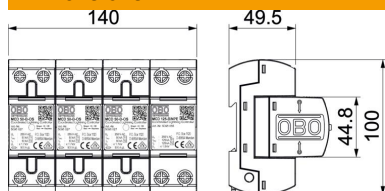
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Dimensions



Length	100 mm
Width	140 mm
Height	69 mm

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Arrester surge current (8/20 μ s) [total]	125 kA
Response time	<100 ns
Blow-out	no
Version for	3+1-pole
Pole version	3+N/PE
Structural width in division units (division unit, 17.5 mm)	8
Operating temperature, max.	85 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 μ s)	50 kA
Lightning surge current (10/350 μ s) [N/PE]	125 kA
Lightning surge current (10/350 μ s)	125 kA
Remote signalling	no
Follow current quenching capacity (eff) [N-PE]	0.1 kA
Follow current quenching capacity I _{eff}	10
Maximum continuous voltage (L-N)	255 V
Maximum continuous voltage (N-PE)	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 mm ²
Conductor cross-section, rigid (single-wire/multiwire), min.	10 mm ²
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 μ s)	50 kA
Nominal discharge current (8/20 μ s) [L-N]	50 kA
Nominal discharge current (8/20 μ s) [N-PE]	125 kA
Nominal voltage AC (50/60 Hz)	230 V
Network form	TN-S, TT
DC network form	no

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IT network form	no
Other network form	no
TN network form	yes
TN-C network form	no
TN-C-S network form	yes
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
Protection level [N-PE]	1.5 kV
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