

# Technical data sheet

## Combination arrester, 3-pole + NPE with function display

Item no. 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.

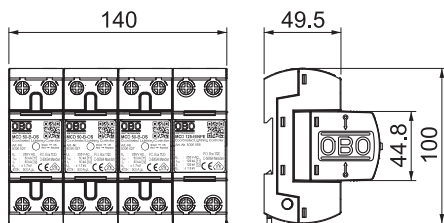
Interface 0 to 1 according to lightning protection zone concept according to IEC 61312-1 and VDE 0185-305.

- 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.



### Dimensions

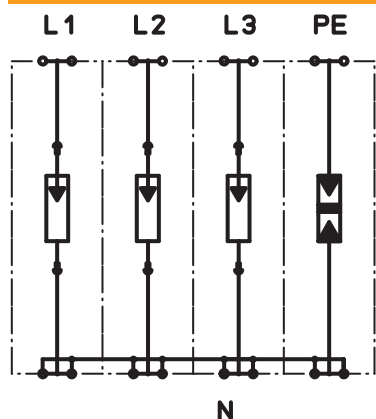


Length	100,00 mm
Width	140,00 mm
Height	69,00 mm

### Master data

Item no.	5096836
Type	MCD 50-B 3+1-OS
Description 1	Coordinated Lightning Controller
Description 2	set with function display
Dimension	255V
Smallest sales unit (VG)	1 Piece
Weight	172,00 kg/100 pc.

### Technical data



SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-11	Class I+II
Test class, type 1	<input checked="" type="checkbox"/>
Test class, type 2	<input checked="" type="checkbox"/>
Nominal voltage	230,00 V
Maximum continuous voltage AC	255,00 V
Max. continuous operating voltage	255,00 V
Maximum continuous voltage (L-N)	255,00 V
Maximum continuous voltage (N-PE)	255,00 V
Nominal discharge current (8/20)	50 kA

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Nominal discharge current (8/20 μs) [L-N]	50,00 kA
Nominal discharge current (8/20 μs) [N-PE]	125,00 kA
Rated current	125,00 A
Impulse discharge current (10/350)	50,00 kA
Lightning impulse current (10/350) (N-PE)	125,00 kA
Lightning impulse current (10/350) (L-N)	50,00 kA
Lightning surge current (10/350)	125,00 kA
Arrester surge current (8/20) [total]	125,00 kA
Protection level	< 1,7 kV
Protection level [L-N]	1,70 kV
Protection level (L-N)	< 1,7 kV
Protection level (N-PE)	< 1,5 kV
Follow current quenching capacity (eff) [N-PE]	0,10 kA
Follow current quenching capacity leff	10,00 kA
Response time	<100 ns
Maximum back-up fuse	500,00 A
Temperature range	-40+85 °C
Pole version	3+N/PE
Pole number	1
Version	3+1-pole
Version	3 + NPE
Mounting type	Hat rail 35 mm
Installation type	DIN rail 35 mm
Protection rating	IP20
Protection rating	IP 20
Approvals	
Blow-out	<input type="checkbox"/>
Size	8 part units
Division unit TE (17.5 mm)	8
Remote signalling	<input type="checkbox"/>
Telecommunications contact	<input type="checkbox"/>
Connection cross-section, flexible	10,00 - 25,00 mm <sup>2</sup>
Connection cross-section, rigid	10,00 - 50,00 mm <sup>2</sup>
Connection cross-section, multi-wire	10,00 - 35,00 mm <sup>2</sup>
Signalling on device	Visual