

## Combination arrester, 3-pole + NPE

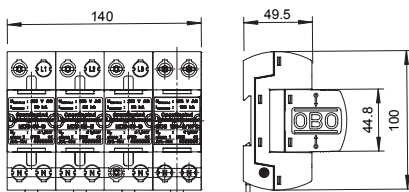


Combination arrester, lightning current arrester, type 1+2, 4-pole, for use in TT and TN-S networks.

Completely pre-terminated and ready for connection, consisting of:  
3 x MCD 50-B: Coordinated lightning current arrester, type 1+2 to EN 61643-11 and  
1 x MCD 125-B/NPE: Coordinated N-PE spark gap, type 1+2 to EN 61643-11. For inter-  
face 0 to 2 (LPZ) in accordance with lightning protection zone concept to IEC 61312-1  
and/or 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
- Suitable for use in pre-meter area according to the VDEW directive
- Encapsulated, non-extinguishing spark gap

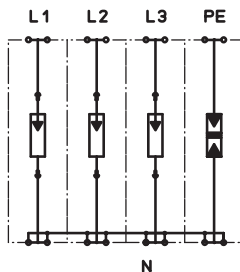
### Dimensions



Application: Industrial systems and buildings with external lightning protection of the highest class I to IV.

Type	Highest Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B 3+1	255   3 + NPE	1	168,000	5096879

### Connection options



### MCD 50-B 3+1

Nominal voltage V	$U_N$	230
Max. continuous operating voltage V	$U_C$	255
SPD to EN 61643-11		Type 1+2
SPD to IEC 61643-11		Class I+II
Lightning protection zone LPZ		0→2
Impulse discharge current (10/350) kA	$I_{imp}$	50
Total discharge current (10/350) kA	$I_{total}$	125
Nominal discharge current (8/20) kA	$I_n$	50
Arrester surge current (8/20) [total] kA	$I_{total 8/20}$	125
Voltage protection level kV	$U_p$	< 1,7
Protection level (N-PE) kV		< 1,5
Response time ns	$t_A$	< 100
Follow current quenching capacity $I_{eff}$ kA	$I_{n\ eff}$	10
Follow current quenching capacity (eff) [N-PE] kA	$I_n$	0,1
Maximum back-up fuse A		500
Temperature range °C	$\vartheta$	-40+85
Division unit TE (17.5 mm)		8
Protection rating		IP20
Approvals		VDE
Connection cross-section rigid mm <sup>2</sup>		10-50
Connection cross-section, multi-wire mm <sup>2</sup>		10-35
Connection cross-section, flexible mm <sup>2</sup>		10-25