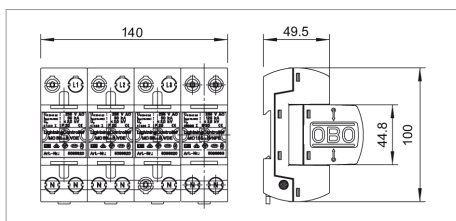


Technical data sheet

Lightning current arrester, 3-pole + NPE



LightningController-Set, 4-pole, for use in TN-S and TT networks:

Completely pre-terminated and ready for connection, consisting of:
 MC 50-B VDE: Lightning current arrester, Type 1 (Class B) to EN 61643-11 for interface 0 to 1 (LPZ) according to lightning protection zone concept to IEC 61313-1 and DIN VDE 0185-305.
 MC 125-B/NPE: N-PE spark gap, Type 1 (Class B) to IEC 61643 for use in TN-S and TT systems.

- VDE test marks
- Conforms to VDN Directive 2nd Edition 2004
- Cover and base, plug-in cover
- Arresting capacity 125 kA 10/350 μ s
- Voltage protection level • Line following current quenching 25 kA I_{peak}
- Incl. plug caps for identifying the connections
- Encapsulated, non-extinguishing spark gap: can be used in standard distributor housings

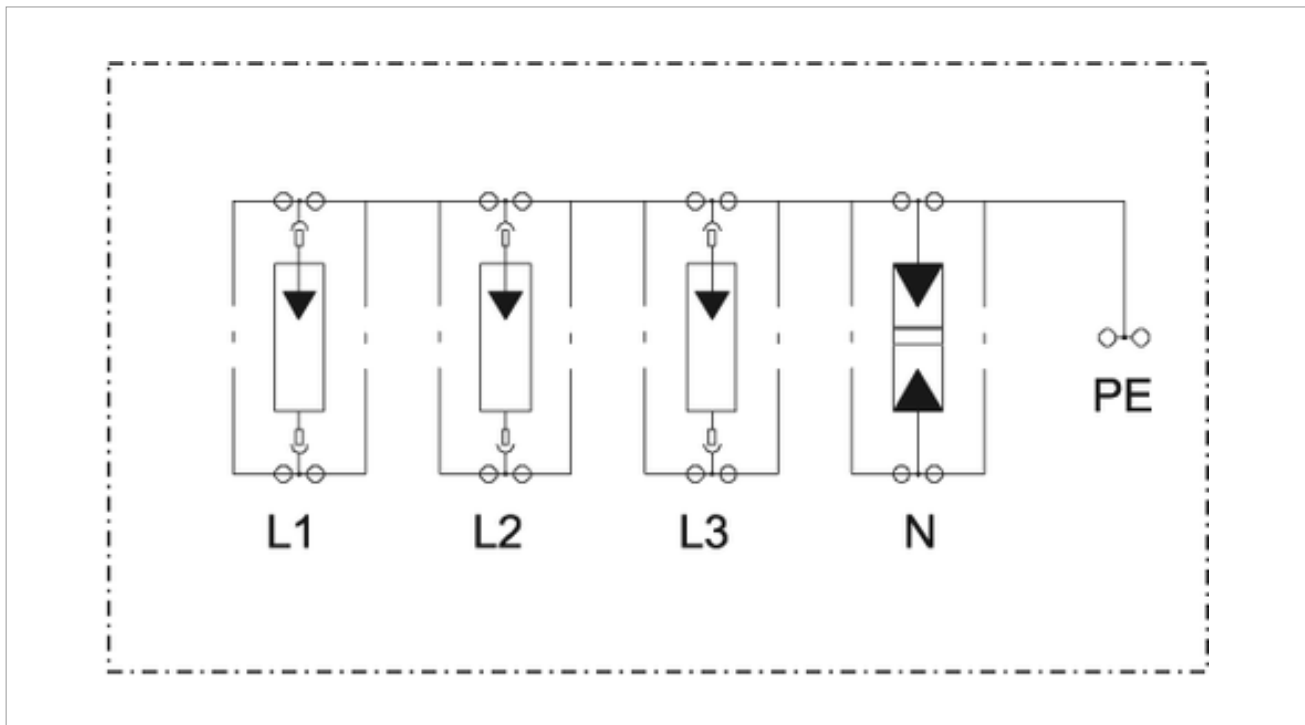
Application example: Lightning current arrester in accordance with VDN Directive 2nd Edition 2004 for pre-meter area.

Note: Required as decoupling length for surge voltage protection of 5 m of cable.

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Art.-No.
MC 50-B 3+1	255	3 + NPE	1	168.000	5096878

/pc.

Connection-/Circuit diagram



Article number				5096878
Nominal voltage	U_N	V	230	
SPD to EN 61643-11				Type 1
SPD to IEC 61643-11				class I
Lightning protection Zone LPZ				0→1
Impulse discharge current (10/350)	I_{imp}	kA	50	
Total discharge current (10/350)	$I_{Total\ 8/20}$	kA	125	
Nominal discharge current (8/20)	I_n	kA	50	
Arrestor surge current (8/20) [total]	$I_{Total\ 8/20}$	kA	125	
Voltage protection level	U_p	kV	< 2,0	
Response time	t_A	ns	<100	
Follow current interrupt rating	I_{fi}	kA	25	
Maximum back-up fuse			A	500
Temperature range	ϑ	°C	-40 - +85	
Division unit TE (17.5 mm)				8
Connection cross-section, rigid			mm ²	10 - 50
Connection cross-section, multi-wire			mm ²	10 - 35
Connection cross-section, flexible			mm ²	10 - 25

Legend



230/400 V system



Protection device to DIN EN 61643-11 or IEC 61643-11



Transition from LPZ 0 to LPZ 1



MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary



Russia, GOST The State Committee for Standards



5-year warranty



Communautés Européennes, EC declaration of conformity according to EC directives