

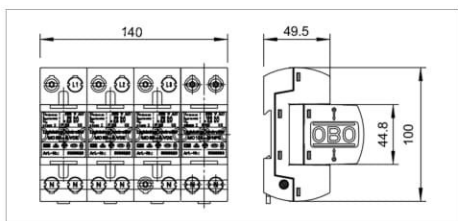
# Technical data sheet

## Lightning current arrester, 3-pole + NPE

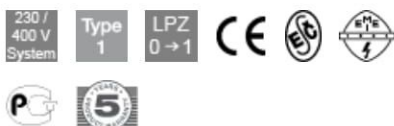


LightningController-Set, 4-pole, for use in TN-S and TT networks:

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  $\mu$ 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



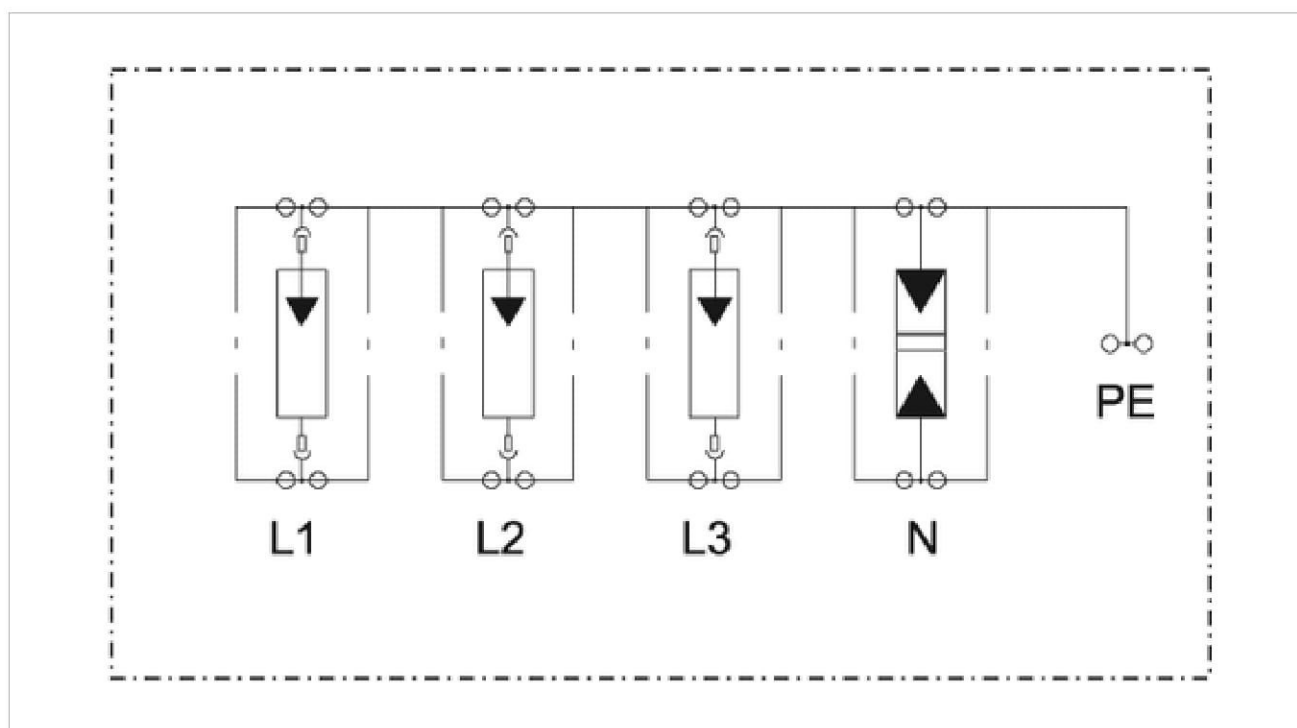
Application example: Lightning current arrester in accordance with VDN Directive 2nd Edition 2004 for pre-meter area.

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

Type	Maximum continuous voltage V	Version	Pack Units	Weight kg/100 pc.	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 61643-1				class I
LPZ				0-1
Lightning impulse current (10/350)	$I_{imp}$	kA	50	
Nominal discharge surge current (8/20)	$I_n$	kA	50	
Arrester surge current (8/20) [total]			kA	125
Voltage protection level	$U_p$	kV	< 2,0	
Response time	$t_A$	ns	<100	
Follow current quenching capacity $I_{peak}$	$I_{fi peak}$	kA	25	
Maximum back-up fuse			A	500
Temperature range	$\vartheta$	°C	-40	
Division unit TE (17.5 mm)				8
Protection rating				IP 20
Connection cross-section, rigid			mm <sup>2</sup>	10
Connection cross-section, multi-wire			mm <sup>2</sup>	10
Connection cross-section, flexible			mm <sup>2</sup>	10

## Legend



230/400 V-system



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



Transition from LPZ 0 to LPZ 1



Communautés Européennes, EC declaration of conformity according to EC directives



ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV, Czech Republic



MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary



Russia, GOST The State Committee for Standards



5-year warranty