

OBO Coordinated-LightningControllers

MCD 50-B and MCD 125-B/NPE

The advantages

- ▶ Low protection level ≤ 1.3 kV.
No need for a decoupling inductance or a length of conductor between arresters of requirement classes B and C.
- ▶ Up to 45% space saving with compact EMC concepts.
- ▶ Proven multi-carbon technology in the LightningControllers.
- ▶ No sensitive trigger electronics inside the lightning arresters.
- ▶ With compact TT and TN-S systems there is no need for the additional NPE sum spark gap with surge arresters of requirement class C.

MCD 50-B

The specially doped insulating rings, which determine the precisely defined spacing of the nine spark gaps, guarantee the low protection level ($U_p \leq 1.3$ kV). As with the proven MC 50-B/VDE, the modular arrester makes it possible to remove the upper part without interrupting the main voltage, in order to measure the insulation resistance in accordance with TAB 2000.

MCD 125-B/NPE

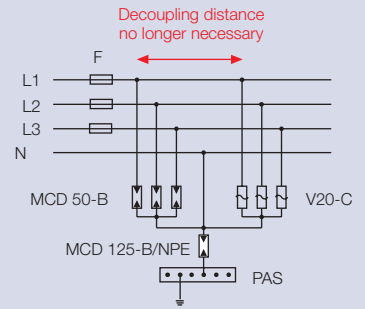
The MCD 125-B/NPE version is an NPE spark gap intended to be installed between the neutral conductor (N) and the protective earth conductor (PE). The low protection level (≤ 1.3 kV) is achieved by a specially coordinated protection circuit.



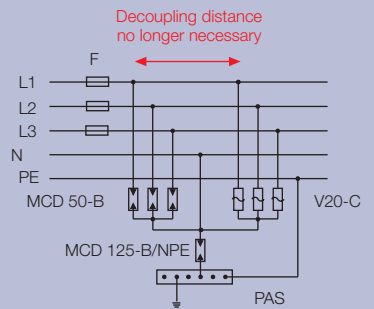
Technical data

Type		MCD 50-B	MCD 125-B/NPE
Requirement class		B (class I), coordinated	N-PE lightning arrester, coordinated
Maximum continuous operating voltage U_c		255 V	255 V
Discharge capacity (10/350 μ s)	I_{imp}	50 kA	125 kA
Protection level	U_p	≤ 1.3 kV	≤ 1.3 kV
Mains follow-up current quenching capacity of the arrester at	U_c	12.5 kA _{eff}	100 kA _{eff}
Max. asymmetric short-circuit current	I_p	25 kA	–
Short-circuit strength (series fuse 500 A gL)	U_c	17.6 kA _{eff}	17.6 kA _{eff}
Max. asymmetric short-circuit current	I_p	25 kA	25 kA
Order no.		5096 84 9	5096 86 5

TT network systems



TN-S network systems



TN-C-S network systems

