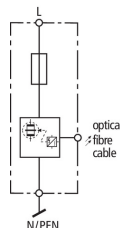


DBM 1 255 S (900 220)

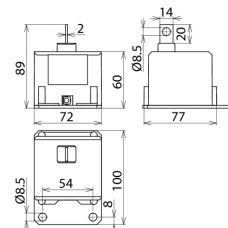
- Combination of spark gap and integrated backup fuse
- For mounting directly onto the PEN / N busbar
- High follow current extinguishing capability and follow current limitation due to RADAX Flow technology



Figure without obligation



Basic circuit diagram DBM 1 255 S



Dimension drawing DBM 1 255 S

Coordinated single-pole lightning current arrester with integrated backup fuse for busbar installation.

Type	DBM 1 255 S
Part No.	900 220
SPD according to EN 61643-11 / IEC 61643-11	type 1 / class I
Nominal voltage (a.c.) (U_N)	230 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) (U_C)	255 V (50 / 60 Hz)
Lightning impulse current (10/350 μ s) (I_{imp})	25 kA
Specific energy (W/R)	156.25 kJ/ohms
Voltage protection level (U_P)	≤ 2.5 kV (including 80 cm connecting cable)
Follow current extinguishing capability (a.c.) (I_{fi})	50 kA _{rms}
Follow current limitation / Selectivity	no tripping of a 32 A gG fuse up to 50 kA _{rms} (prosp.)
Response time (t_A)	≤ 100 ns
Short-circuit withstand capability (I_{SCCR})	100 kA _{rms} (220 kA _{peak})
Max. mains-side overcurrent protection	not required
Rated breaking capacity of the internal backup protection	100 kA
Temporary overvoltage (TOV) (U_T) – Characteristic	440 V / 120 min. – withstand
Operating temperature range (T_U)	-40 °C ... +80 °C
Number of ports	1
For mounting on	PEN / N busbars min. 35 mm ²
Connection	cable lug min. 35 mm ² / max. 50 mm ²
Enclosure material	thermoplastic, red, UL 94 V-0
Place of installation	indoor installation
Dimensions (W x H x D)	72 x 89 x 100 mm
Operating state indication	by optical fibre cables via DSI E 3
Extended technical data:	Use in switchgear installations with prospective short-circuit currents of more than 50 kA _{rms} (tested by the German VDE)
– Max. prospective short-circuit current	100 kA _{rms} (220 kA _{peak})
– Limitation / Extinction of mains follow currents	up to 100 kA _{rms} (220 kA _{peak})
Weight	699 g
Customs tariff number (Comb. Nomenclature EU)	85363090
GTIN	4013364106734
PU	1 pc(s)

We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.