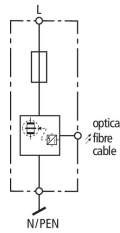


**DBM 1 255 S (900 220)**

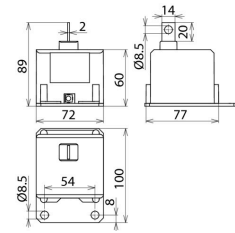
- Combination of spark gap and integrated backup fuse
- For mounting directly onto the PEN / N busbar
- High follow current extinguishing capability and follow current limitation due to RADAX Flow technology



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 Part No.	DBM 1 255 S 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 $\mu$ s) ( $I_{imp}$ )	25 kA
Specific energy (W/R)	156.25 kJ/ohms
Voltage protection level ( $U_P$ )	$\leq 2.5$ kV (including 80 cm connecting cable)
Follow current extinguishing capability (a.c.) ( $I_n$ )	50 kA <sub>rms</sub>
Follow current limitation / Selectivity	no tripping of a 32 A gG fuse up to 50 kA <sub>rms</sub> (prosp.)
Response time ( $t_A$ )	$\leq 100$ ns
Short-circuit withstand capability ( $I_{SCCR}$ )	100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )
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 <sup>2</sup>
Connection	cable lug min. 35 mm <sup>2</sup> / max. 50 mm <sup>2</sup>
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 <sub>rms</sub> (tested by the German VDE)
– Max. prospective short-circuit current	100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )
– Limitation / Extinction of mains follow currents	up to 100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )
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.