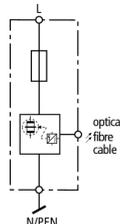


## DBM 1 255 S (900 220)

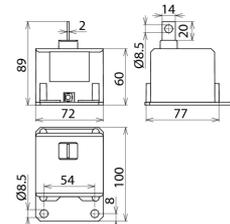
- Combination of spark gap and integrated backup fuse
- Directly mounted onto PEN/N busbars
- High follow current extinguishing capability and follow current limitation due to RADAX Flow technology



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 busbars

Type	DBM 1 255 S
Part No.	900 220
SPD according to EN 61643-11	Type 1
SPD according to IEC 61643-1/-11	Class I
Max. continuous operating a.c. voltage ( $U_C$ )	255 V
Lightning impulse current (10/350 $\mu$ s) ( $I_{imp}$ )	25 kA
Specific energy (W/R)	156.25 kJ/ohms
Nominal discharge current (8/20 $\mu$ s) ( $I_n$ )	25 kA
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 gL/gG fuse up to 50 kA <sub>rms</sub> (prosp.)
Response time ( $t_n$ )	$\leq 100$ ns
Max. mains-side overcurrent protection	not required
Short-circuit withstand capability	100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )
Temporary overvoltage (TOV) ( $U_T$ )	335 V / 5 sec.
TOV characteristic	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 type	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
<b>Extended technical data:</b>	<b>Use in installations with prospective short-circuit currents of more than 50 kA<sub>rms</sub> (tested by VDE)</b>
- Maximum 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	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.