

# Product Data Sheet: DEHNbloc® M

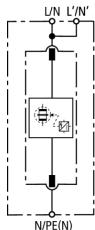


## DB M 1 255 (961 120)

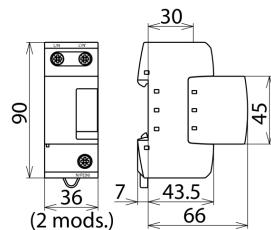
- Coordinated spark-gap-based lightning current arrester consisting of a base part and plug-in protection module
- Maximum system availability due to RADAX Flow follow current limitation
- Directly coordinated with DEHNgard surge protective devices without additional cable length



Figure without obligation



Basic circuit diagram DB M 1 255



Dimension drawing DB M 1 255

Coordinated modular single-pole lightning current arrester with high follow current limitation

Type	DB M 1 255
Part No.	961 120
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 µs) ( $I_{imp}$ )	50 kA
Specific energy (W/R)	625.00 kJ/ohms
Nominal discharge current (8/20 µs) ( $I_n$ )	50 kA
Voltage protection level ( $U_p$ )	≤ 2.5 kV
Follow current extinguishing capability a.c. ( $I_{fi}$ )	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 ( $t_a$ )	≤ 100 ns
Max. backup fuse (L) up to $I_k = 50 \text{ kA}_{\text{rms}}$ ( $t_a \leq 0.2 \text{ s}$ )	500 A gL/gG
Max. backup fuse (L) up to $I_k = 50 \text{ kA}_{\text{rms}}$ ( $t_a \leq 5 \text{ s}$ )	315 A gL/gG
Max. backup fuse (L-L')	125 A gL/gG
Temporary overvoltage (TOV) ( $U_T$ )	440 V / 5 sec.
TOV characteristic	withstand
Operating temperature range (parallel connection) ( $T_{up}$ )	-40°C...+80°C
Operating temperature range (series connection) ( $T_{us}$ )	-40°C...+60°C
Operating state/fault indication	green / red
Number of ports	1
Cross-sectional area (L/N, L'/N', N/PE (N)) (min.)	10 mm <sup>2</sup> solid/flexible
Cross-sectional area (L/N, N/PE(N)) (max.)	50 mm <sup>2</sup> stranded/35 mm <sup>2</sup> flexible
Cross-sectional area (L'/N') (max.)	35 mm <sup>2</sup> stranded/25 mm <sup>2</sup> flexible
For mounting on	35 mm DIN rails acc. to EN 60715
Enclosure material	thermoplastic, red, UL 94 V-0
Place of installation	indoor installation
Degree of protection	IP 20
Capacity	2 module(s), DIN 43880
Approvals	VDE, KEMA, UL
<b>Use in installations with prospective short-circuit currents of more than 50 kA<sub>rms</sub> (tested by VDE)</b>	
Extended technical data:	
- 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> )
- Max. backup fuse (L) up to $I_k = 100 \text{ kA}_{\text{rms}}$ ( $t_a \leq 0.2 \text{ s}$ )	500 A gL/gG
- Max. backup fuse (L) up to $I_k = 100 \text{ kA}_{\text{rms}}$ ( $t_a \leq 5 \text{ s}$ )	315 A gL/gG
Weight	340 g
Customs tariff number	85363030
GTIN	4013364118614
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.