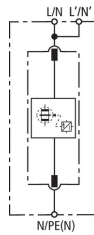


## DB M 1 255 (961 120)

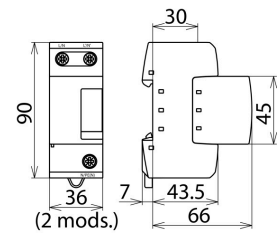
- Coordinated spark-gap-based lightning current arrester consisting of a base part and a plug-in protection module
- Maximum system availability due to RADAX Flow follow current limitation
- Directly coordinated with DEHNguard surge protective devices without additional cable length



Figure without obligation



Basic circuit diagram DB M 1 255



Dimension drawing DB M 1 255

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

Type Part No.	DB M 1 255 961 120
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) ( $I_{imp}$ )	50 kA
Specific energy (W/R)	625.00 kJ/ohms
Voltage protection level ( $U_P$ )	$\leq 2.5$ kV
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
Max. backup fuse (L) up to $I_k = 50$ kA <sub>rms</sub> ( $t_a \leq 0.2$ s)	500 A gG
Max. backup fuse (L) up to $I_k = 50$ kA <sub>rms</sub> ( $t_a \leq 5$ s)	315 A gG
Max. backup fuse (L-L')	125 A gG
Temporary overvoltage (TOV) ( $U_T$ ) – Characteristic	440 V / 120 min. – 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
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> )
– Max. backup fuse (L) up to $I_k = 100$ kA <sub>rms</sub> ( $t_a \leq 0.2$ s)	500 A gG
– Max. backup fuse (L) up to $I_k = 100$ kA <sub>rms</sub> ( $t_a \leq 5$ s)	315 A gG
Supplementary data:	-----
– Nominal discharge current (8/20 $\mu$ s) ( $I_n$ )	50 kA
Weight	340 g
Customs tariff number (Comb. Nomenclature EU)	85363090
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.