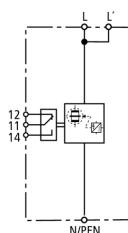


DBM 1 440 FM (961 145)

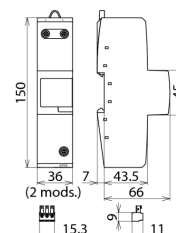
- Encapsulated non-exhausting spark gap
- High follow current extinction and limitation due to RADAX Flow technology
- Directly coordinated with DEHNguard surge protective devices without additional cable length



Figure without obligation



Basic circuit diagram DBM 1 440 FM



Dimension drawing DBM 1 440 FM

Coordinated single-pole lightning current arrester with high follow current limitation for $U_c = 440\text{ V}$

Type	DBM 1 440 FM
Part No.	961 145
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)	440 V
Lightning impulse current (10/350 μ s) (I_{imp})	35 kA
Specific energy (W/R)	306.25 kJ/ohms
Nominal discharge current (8/20 μ s) (I_n)	35 kA
Voltage protection level (U_p)	$\leq 2.5\text{ kV}$
Follow current extinguishing capability a.c. (I_R)	50 kA _{rms}
Follow current limitation / Selectivity	no tripping of a 32 A gL/gG fuse up to 50 kA _{rms} (prosp.)
Response time (t_a)	$\leq 100\text{ ns}$
Max. backup fuse (L) up to $I_K = 50\text{ kA}_{rms}$ ($t_a \leq 0.2\text{ s}$)	500 A gL/gG
Max. backup fuse (L) up to $I_K = 50\text{ kA}_{rms}$ ($t_a \leq 5\text{ s}$)	250 A gL/gG
Max. backup fuse (L-L')	125 A gL/gG
Temporary overvoltage (TOV) (U_T)	690 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, L', N/PEN) (min.)	10 mm ² solid/flexible
Cross-sectional area (L, N/PEN) (max.)	50 mm ² stranded/35 mm ² flexible
Cross-sectional area (L') (max.)	35 mm ² stranded/25 mm ² 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	UL, CSA
Type of remote signalling contact	changeover contact
a.c. switching capacity	250 V/0.5 A
d.c. switching capacity	250 V/0.1 A; 125 V/0.2 A; 75 V/0.5 A
Cross-sectional area for remote signalling terminals	max. 1.5 mm ² solid/flexible
Extended technical data:	Use in installations with prospective short-circuit currents of more than 50 kA_{rms} (tested by VDE)
- Maximum prospective short-circuit current	100 kA _{rms} (220 kA _{peak})
- Limitation/extinction of mains follow currents	up to 100 kA _{rms} (220 kA _{peak})
- Max. backup fuse (L) up to $I_K = 100\text{ kA}_{rms}$ ($t_a \leq 0.2\text{ s}$)	500 A gL/gG
- Max. backup fuse (L) up to $I_K = 100\text{ kA}_{rms}$ ($t_a \leq 5\text{ s}$)	250 A gL/gG
Weight	522 g
Customs tariff number	85363030
Military Name	VG 96951 -5 A0001
GTIN	4013364116276
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.