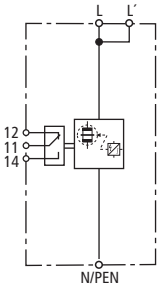
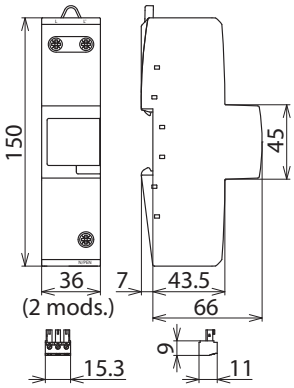
DBM 1 440 FM (961 145)

- Extremely high lightning current discharge capacity
- High follow current extinction and limitation due to RADAX Flow technology
- Directly coordinated with DEHNguard surge protective devices without additional cable length





Basic circuit diagram



Dimension drawing

Coordinated single-pole lightning current arrester with high follow current limitation for U_C = 440 V.

Type	**DBM 1 440 FM**
Part No.	**961 145**
Standards	
Certification	UL
UL Standard	UL 1449 5th edition
UL File Number	E319777
Test values according to UL 1449	
SPD classification according to UL 1449	Component (Type 4) SPD for SPD Type 2 application
Rated A.C. Voltage	347 V
Frequency	60 Hz
Max. Continuous Operating Voltage (AC) [L-N] (MCOV)	440 V
Voltage Protection Rating [L-N] (VPR)	1800 V
Amperage (series connection)	115 A
Nominal discharge current (8/20µs) (I_n)	20 kA
Operating Temperature Range	-40°C...+85°C
Torque (L, L', N/PEN)	65 □□□□□□
Cross-sectional area (L/L', N/PEN)	AWG 8 Cu stranded
Connection of remote signalling contact	Class 2 circuits only
Cross-sectional area (remote indicator)	AWG 14-22
Torque (remote indicator)	3 Lbs-in
SPD according to EN 61643-11 / IEC 61643-11	type 1 / class I
Nominal voltage (a.c.) (U_N)	400 V
Max. continuous operating voltage (AC) (U_C)	440 V
Lightning impulse current (10/350 µs) (I_{imp})	35 kA
Specific energy (W/R)	306.25 kJ/ohms
Nominal discharge current (8/20 µs) (I_n)	35 kA
Voltage protection level (U_p)	≤ 2.5 kV
Follow current extinguishing capability (a.c.) (I_{fi})	50 kA_{rms}
Follow current limitation / Selectivity	no tripping of a 32 A gG fuse up to 50 kA_{rms} (prosp.)
Response time (t_A)	≤ 100 ns
Max. backup fuse (L) up to I_K = 50 kA_{rms} (t_a ≤ 0.2 s)	500 A gG
Max. backup fuse (L) up to I_K = 50 kA_{eff} (t_a ≤ 5 s)	250 A gG
Max. backup fuse (L-L')	125 A gG
Temporary overvoltage (U_T) – characteristic	760 V / 120 min. – withstand
Operating temperature range (parallel connection) (T_{UP})	-40 °C ... +80 °C
Operating temperature range (through-wiring) (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

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: Tested • NEU: New • !: Discontinued Model
: Cross connector • : Longitudinal connector • : Parallel connector • : T connector • : Clamp for parallel connector • : Clamp for T connector
: Pipe clamp for parallel connector • : Pipe clamp for T connector • : Equipotential bonding bar • : Bridging component

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 Standard DIN module, DIN 43880
Approvals	UL, CSA
Type of remote signalling contact	changeover contact
Switching capacity (a.c.)	250 V / 0.5 A
Switching capacity (d.c.)	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	
Max. 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 kA_{rms} ($t_a \leq 0.2$ s)	500 A gG
Max. backup fuse (L) up to I_K = 100 kA_{rms} ($t_a \leq 5$ s)	250 A gG

Masterdata	
Net weight	519.5 g/pc(s)
GTIN	4013364116276
PU	1 pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363090

We reserve the right to make changes to the design and technology, dimensions, weights and materials in the interests of technical progress. The illustrations are not binding.