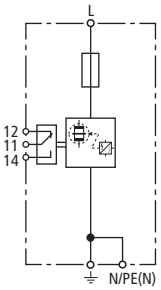
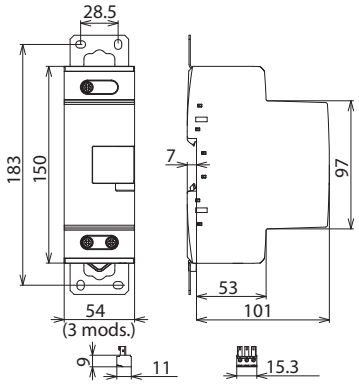
DBM 1 CI 440 FM (961 146)

- Spark-gap-based lightning current arrester with integrated backup fuse
- Maximum system availability thanks to RADAX Flow follow current limitation
- Directly coordinated with DEHNguard surge protective devices without cable length





Basic circuit diagram



Dimension drawing

Coordinated single-pole lightning current arrester with integrated backup fuse for 400 / 690 V TN systems and 400 V IT systemss; with remote signalling contact for monitoring device (floating changeover contact).

Type	**DBM 1 CI 440 FM**
Part No.	**961 146**
SPD according to EN 61643-11 / IEC 61643-11	type 1 / class I
Nominal voltage (a.c.) (U_N)	400 / 690 V (50 / 60 Hz)
Max. continuous operating voltage (AC) (U_C)	440 V (50 / 60 Hz)
Lightning impulse current (10/350 µs) (I_{imp})	35 kA
Specific energy (W/R)	306.25 kJ/Ohm
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 35 A gG fuse up to 50 kA_{rms} (prosp.)
Response time (t_A)	≤ 100 ns
Max. mains-side overcurrent protection	not required
Temporary overvoltage (U_T) – characteristic	760 V / 120 min. – withstand
Operating temperature range (T_U)	-40 °C ... +80 °C
Operating state / fault indication	green / red
Number of ports	1
Cross-sectional area (L, N/PE(N)) (min.)	10 mm² solid / flexible
Cross-sectional area (L, N/PE(N)) (max.)	50 mm² stranded / 35 mm² flexible
For mounting on	35 mm DIN rails acc. to EN 60715 or mounting plate (using the two mounting brackets provided)
Enclosure material	thermoplastic, red, UL 94 V-0
Place of installation	indoor installation
Degree of protection	IP 20
Capacity	3 Standard DIN module, DIN 43880
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 mm² solid / flexible
Supplementary data	
Nominal discharge current (8/20 µs) (I_n)	35 kA

Masterdata	
Net weight	945.7 g/pc(s)
GTIN	4013364250062
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.

© DEHN, Inc. • 500 S Main Street, Suite 115 • Mooresville, NC 28115 • United States • Tel. +1 877-927-6510 • contactDEHN@dehn.us • www.dehn.us

: 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