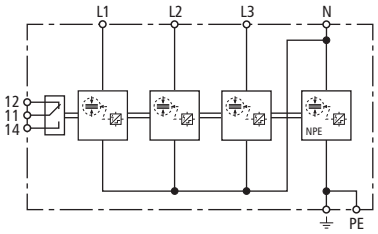
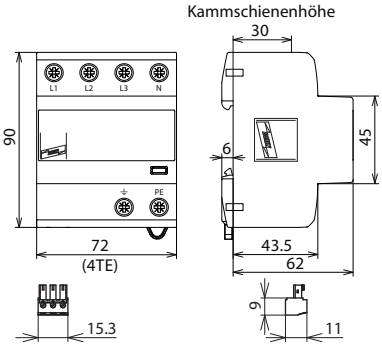
DVA EMOB 3P 255 FM (900 385)

- Universally applicable combined lightning current and surge arrester, particularly for use in power supply systems for the charging infrastructure
- Compact and space-saving installation thanks to spark gap technology with a width of only 1 module / pole
- Energy coordinated protective effect type 1 + type 2 + type 3 ensures protection of terminal equipment
- Residual energy in case of a S20K275 terminal device varistor < 0.5 J
- Maximum backup fuse up to 250 A gG
- Insulation measurement up to 1000 V d.c. when connected





Basic circuit diagram



Dimension drawing

Prewired combined lightning current and surge arrester for use in three-phase TT and TN-S systems (3+1 configuration) with remote signalling contact.

Type	DVA EMOB 3P 255 FM
Part No.	**900 385**
SPD according to EN 61643-11 / IEC 61643-11	type 1 + type 2 / class I + class II
Energy coordination with terminal equipment (≤ 10 m)	type 1 + type 2 + type 3
Nominal voltage (a.c.) (U_N)	230 / 400 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) [L-N]/[N-PE] (U_C)	255 V (50 / 60 Hz)
Lightning impulse current (10/350 µs) [L-N]/[N-PE] (I_{imp})	12.5 / 50 kA
Specific energy [L-N]/[N-PE] (W/R)	39.06 kJ/ohms / 625.00 kJ/ohms
Nominal discharge current (8/20 µs) (I_n)	25 / 100 kA
Voltage protection level [L-N]/[N-PE] (U_p)	≤ 1.5 kV / ≤ 1.5 kV
Follow current extinguishing capability [L-N]/[N-PE] (I_{fi})	25 kA_{rms} / 100 A_{rms}
Follow current limitation / Selectivity	No tripping of a 35 A gG fuse up to 25 kA_{rms} (prosp.)
Response time (t_A)	≤ 100 ns
Max. backup fuse (L) up to I_K ≤ 25 kA_{rms}	250 A gG
Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic	440 V / 120 min. – withstand
Temporary overvoltage (TOV) [N-PE] (U_T) - Characteristic	1200 V / 200 ms – withstand
Operating temperature range [parallel]/[series] (T_U)	-40°C...+80°C
Operating state / fault indication	green / red
Number of ports	1
Cross-sectional area (L1, L2, L3, N, PE,) (min.)	1.5 mm² solid / flexible
Cross-sectional area (L1, L2, L3, N, PE,) (max.)	35 mm² stranded / 25 mm² 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	4 Standard DIN module, DIN 43880
Approvals	KEMA, UL
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
Insulation measurement possible when connected	up to 1000 V DC
Extended technical data	
Additional abnormal voltage test: 485 V AC / 50 Hz for 24 h	withstand
Residual energy with a S20K275	< 0.5 J
characteristic at U = 320 V and I_{SCCR} = 13.5 kA with fuse 63 A gG	withstand

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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

Extended technical data	
Voltage protection level [L-PE] (U_p)	≤ 2.0 kV

Masterdata	
Net weight	472 g/pc(s)
GTIN	4013364422186
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.

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