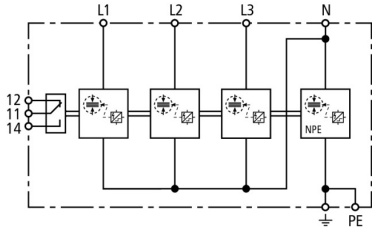
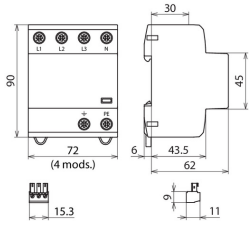
DVA EMOB 3P 255 FM (900 385)

- 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 500 V d.c. when connected

Figure without obligation



Basic circuit diagram DVA EMOB 3P 255 FM



Dimension drawing DVA EMOB 3P 255 FM

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 Part No.	DVA EMOB 3P 255 FM 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 32 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 mm^2 solid / flexible
Cross-sectional area (L1, L2, L3, N, PE, ⏚) (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	4 module(s), DIN 43880
Approvals	KEMA
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
Insulation measurement possible when connected	up to 500 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 in combination with a fuse 63 A gG	withstand
Weight	472 g
Customs tariff number (Comb. Nomenclature EU)	85363090
GTIN	4013364422186
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.