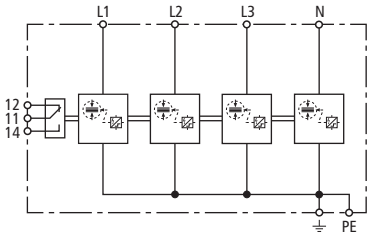
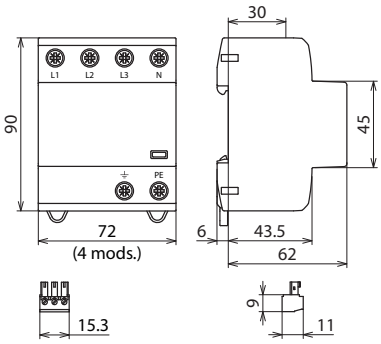
DSH TNS 255 FM (941 405)

- Application-optimised and prewired spark-gap-based type 1 and type 2 combined lightning current and surge arrester
- Compact design due to space-saving spark gap technology with a width of only 1 module / pole
- Allows compact lightning equipotential bonding including protection of terminal equipment





Basic circuit diagram



Dimension drawing

Application-optimised and prewired combined lightning current and surge arrester for TN-S systems; with floating remote signalling contact.

Type	**DSH TNS 255 FM**
Part No.	**941 405**
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 (AC) (U_C)	255 V (50 / 60 Hz)
Lightning impulse current (10/350 µs) [L1+L2+L3+N-PE] (I_{total})	50 kA
Specific energy [L1+L2+L3+N-PE] (W/R)	625.00 kJ/Ohm
Lightning impulse current (10/350 µs) [L, N-PE] (I_{imp})	12.5 kA
Specific energy [L,N-PE] (W/R)	39.06 kJ/Ohm
Nominal discharge current (8/20 µs) [L/N-PE]/[L1+L2+L3+N-PE] (I_n)	12.5 / 50 kA
Voltage protection level [L-PE]/[N-PE] (U_p)	≤ 1.5 / ≤ 1.5 kV
Follow current extinguishing capability (a.c.) (I_{fi})	25 kA_{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. mains-side overcurrent protection	160 A gG
Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic	440 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 (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, VDE
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

Masterdata	
Net weight	428.4 g/pc(s)
GTIN	4013364275331
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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: 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