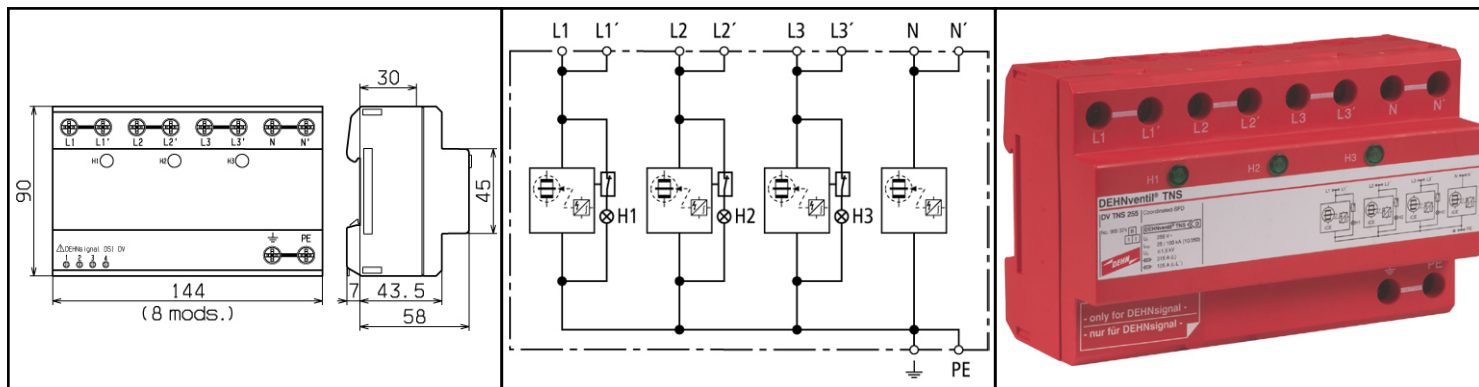


COMBINED SPDS TYPE 1

DV TNS 255



Dimension drawing DV TNS 255

Basic circuit diagram DV TNS 255

DV TNS 255: Combined lightning current and surge arrester for use in TN-S systems

Prewired combined spark-gap based lightning current and surge arrester

Max. follow current limitation due to RADAX Flow technology

No tripping of 32/35 A gL/gG fuses upon short-circuit currents up to 50 kA_{rms}

Lightning current discharge capacity 100 kA (10/350 µs)

Allows for protection of terminal equipment

Provides maximum system availability

DV TNS 255	
SPD according to EN 61643-11	Type 1
SPD according to IEC 61643-1	Class I
Nominal a.c. voltage [U _N]	230 / 400 V
Max. continuous operating a.c. voltage [U _C]	255 V
Lightning impulse current (10/350 µs) [L1+L2+L3+N-PE] [I _{imp}]	100 kA
Lightning impulse current (10/350 µs) [L,N-PE] [I _{imp}]	25 kA
Nominal discharge current (8/20 µs) [I _n]	25 / 100 kA
Voltage protection level [L-PE] [U _{p1}]	≤ 1.5 kV
Voltage protection level [N-PE] [U _{p1}]	≤ 1.5 kV
Follow current extinguishing capability a.c. [I _{fl}]	50 kA _{rms}
Follow current limitation/Selectivity	no tripping of a 32 A gL/gG fuse up to 50 kA _{rms} (prosp.)
Response time [t _{A1}]	≤ 100 ns
Max. backup fuse (L) up to I _K = 50 kA _{rms}	315 A gL/gG
Max. backup fuse (L) for I _K > 50 kA _{rms}	200 A gL/gG
Max. backup fuse (L-L')	125 A gL/gG
Temporary overvoltage (TOV) [L-N] [U _{T1}]	335 V / 5 sec.
Operating temperature range (parallel connection) [T _{UP1}]	-40°C...+80°C
Operating temperature range (series connection) [T _{US1}]	-40°C...+60°C
Operation indicator	green light
Cross-sectional area (L1, L1', L2, L2', L3, L3', N, N', PE, ÷) [min.]	10 mm ² solid/flexible
Cross-sectional area (L1, L2, L3, N, PE) [max.]	50 mm ² stranded/35 mm ² flexible
Cross-sectional area (L1', L2', L3', N', ÷) [max.]	35 mm ² stranded/25 mm ² flexible
For mounting on	35 mm DIN rail acc. to EN 60715
Enclosure material	red thermoplastic, UL 94 V-0
Degree of protection	IP 20
Dimension	8 mods., DIN 43880
Approvals, Certifications	KEMA, VDE, VdS
Ordering information	
Type	DV TNS 255
Part No.	900 374
Packing unit	1 pc

We reserve the right to modify design, technology, dimensions, weights and materials according to technical progress. Illustrations are non-binding. Pictures may differ from the modules described.