



NEW

Power Supply Systems Combined Arresters, Class B



DEHNventil® TNC / ... TNS / ... TT Multi-pole combined arrester

For integrating power lines in lightning equipotential bonding systems. For the installation within the lightning protection zones concept at the boundaries $O_A - 2$.

For the protection of l.v. consumers' installations against overvoltages, even in case of direct lightning strikes. It can be used for the protection of installations and equipment of categories I to IV in accordance with DIN VDE 0110-1:1997-04.

Tested with lightning impulse currents (10/350) in accordance with DIN V ENV 61024-1 (VDE V 0185 Part 100), DIN VDE 0185 Part 103. Surge arresters, Class B, in accordance with E DIN VDE 0675-6:1989-11, -6/A1:1996-03 and -6/A2:1996-10.

- Encapsulated, non-exhausting creepage discharge spark gap,
- Provides patented RADAX-Flow-Technology for the limitation and extinction of follow currents
- Energy-coordinated with surge arresters, Class C and D of the Red / Line product group without any additional decoupling coils as well as directly with terminals of overvoltage category I with $U_N = 230\text{ V ac}$,
- Low voltage protection level,
- Complete unit, ready for connection in the most common networks,
- Provides double terminals for all wires as well as output-side multifunctional terminals for wires and busbars,
- Optional remote signalization can be made via terminals,
- Integrated indication of operating voltage.

Versions:

- DV TNC 255:** Complete circuit for TN-C-Systems
- DV TNS 255:** Complete circuit for TN(C)-S-Systems
- DV TT 255:** Complete circuit for TT-Systems
- DV 2P TN 255:** Two-pole circuit for TN-Systems
- DV 2P TT 255:** Two-pole circuit for TT-Systems

For details on the application, please see installation instructions Nos. 1385 (DV TNC), 1386 (DV TNS), 1384 (DV TT), 1409 (DV 2P TN) and 1410 (DV 2P TT).

DEHNventil® TNC / ... TNS / ... TT

Type	Version	Part No.
DV TNC 255	3-pole for TN-C	900 373
DV TNS 255	4-pole for TN(C)-S	900 374
DV TT 255	4-pole for TT	900 375
DV 2P TN 255	2-pole for TN	900 371
DV 2P TT 255	2-pole for TT	900 370

DEHNventil TNC



DEHNventil TNS



DEHNventil TT



DEHNventil 2P TN



DEHNventil 2P TT





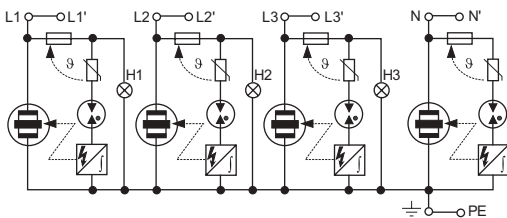
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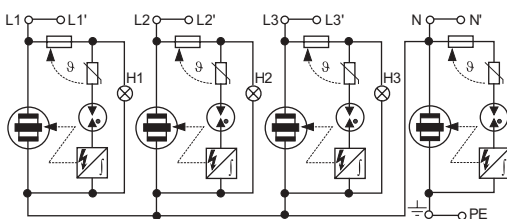


Technical Data:						
DV ... 255		TNC	TNS	TT	2P TN	2P TT
Tested in accordance with		E DIN VDE 0675-6:1989-11, -6/A1:1996-03 and -6/A2:1996-10				
Class		B				
Rated voltage (max. continuous operating voltage)	U_c	255 V / 50 Hz				
Follow current ext. capability at U_c	I_f	25 kA _{rms}				
Follow current limitation		No tripping of 32 A gL/gG backup fuses at 25 kA _{rms} (prosp.)				
Lightning impulse current(10/350)	I_{imp}	25/75 kA	25/100 kA	25/100 kA	25/50 kA	25/50 kA
Voltage protection level Residual voltage at I_{imp} Impulse sparkover voltage 1.2/50	U_p	≤ 1.5 kV ≤ 1.5 kV				
Response time	t_A	≤ 100 ns				
Backup fuse (only required, if not already provided in mains)		315 A gL/gG Parallel connection (L) 125 A gL/gG Interconnection (L-L')				
Short circuit withstand capability with max. backup fuse		25 kA _{rms}				
Operating temperature range	ϑ	-40° C ... +60° C				
Conductor size		min. 10 mm ² solid / flexible, max. 50 mm ² stranded / 35 mm ² flexible (L1, L2, L3, (N), PE (N)) (L, N, PE) max. 35 mm ² stranded / 25 mm ² flexible (L1', L2', L3', (N)', $\underline{\underline{PE}}$) (L', N', $\underline{\underline{PE}}$)				
Mounting on		35 mm DIN rail in accordance with EN 50022				
Housing material		red thermoplastic, UL 94-V0				
Degree of protection		IP 20				
Dimension		6 Mods.	8 Mods.	8 Mods.	6 Mods.	8 Mods.
		DIN 43880				

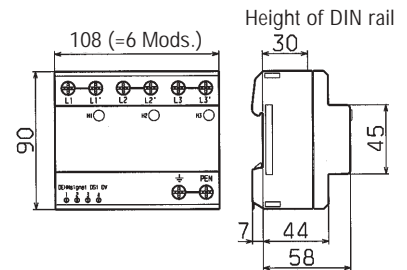
Basic circuit diagram DV TNS 255



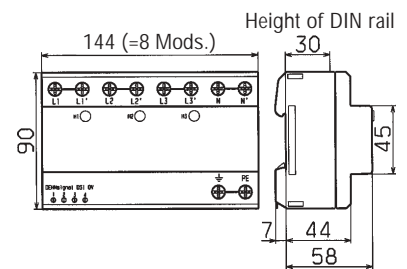
Basic circuit diagram DV TT 255



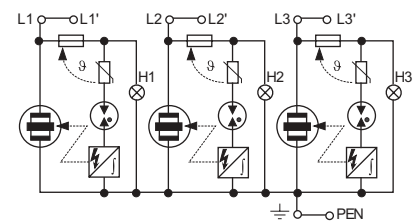
Dimensional drawing DEHNventil
DV TNC 255 / DV 2P TN



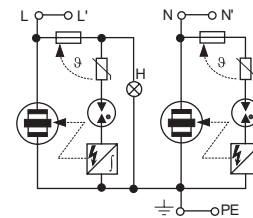
Dimensional drawing DEHNventil
DV TNS 255 / DV TT 255 / DV 2P TT 255



Basic circuit diagram DV TNC 255



Basic circuit diagram DV 2P TN 255



Basic circuit diagram DV 2P TT 255

