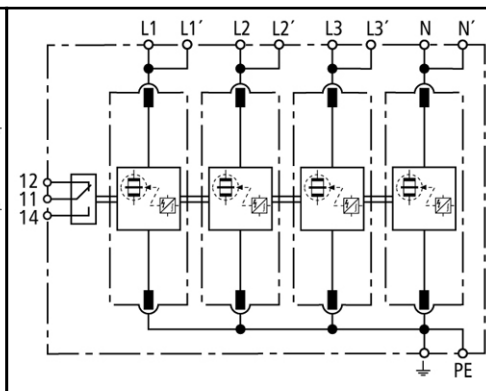


Dimension drawing DV M TNS 255 (FM)



Basic circuit diagram DV M TNS 255 FM



Prewired combined spark-gap-based lightning current and surge arrester, consisting of a base part and plug-in protection modules

Maximum system availability due to RADAX Flow follow current limitation

No tripping of 20 A gL/gG fuses up to 50 kA_{rms} short-circuit currents

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

Allows for protection of terminal equipment

Fault indication by red mark in the inspection window

Allows for easy replacing of protection modules due to module locking system with releasing button

Tested for vibration- and shock-proofness acc. to EN 60068-2

DV M TNS 255 (FM): Modular combined lightning current and surge arrester for use in TN-S systems

DV M TNS 255 FM

SPD according to EN 61643-11	Type 1
SPD according to IEC 61643-1	Class I
Energy-coordinated protection effect with regard to the terminal equipment	Type 1 + Type 2
Energy-coordinated protection effect with regard to the terminal equipment (≤ 5m)	Type 1 + Type 2 + Type 3
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 _{total}]	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 20 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 _T]	440 V / 5 sec.
Operating temperature range (parallel connection) [T _{U,p1}]	-40°C...+80°C
Operating temperature range (series connection) [T _{U,S}]	-40°C...+60°C
Operating state/fault indication	green / red
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 4
Approvals, Certifications	KEMA, VDE, UL, VdS
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
Ordering information	
Type	DV M TNS 255 FM
Part No.	951 405
Packing unit	1 pce

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.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.