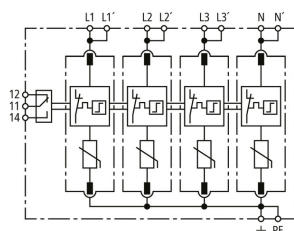


DG MD TNS 275 FM (943 405)

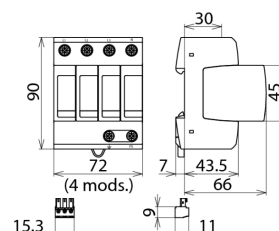
- Prewired complete unit consisting of a base part with double screw connection and plug-in protection modules, with remote signalling contact connection
- High discharge capacity due to heavy-duty zinc oxide varistors / spark gaps
- High device reliability due to "Thermo Dynamic Control" arrester monitoring



Figure without obligation



Basic circuit diagram DG MD TNS 275 FM



Dimension drawing DG MD TNS 275 FM

Modular surge arrester for use in TN-S systems (4+0 configuration); with floating remote signalling contact.

Type	DG MD TNS 275 FM
Part No.	943 405
SPD according to EN 61643-11 / IEC 61643-11	Type 2 + Type 3 / class II + class III
Energy coordination with terminal equipment (≤ 10 m)	type 2 + type 3
Nominal voltage (a.c.) (U_n)	230 / 400 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) (U_c)	275 V (50 / 60 Hz)
Nominal discharge current (8/20 μ s) (I_n)	20 kA
Max. discharge current (8/20 μ s) (I_{max})	40 kA
Combination wave (U_{oc})	20 kV
Nominal load current for "V-connection" (I_L)	63 A
Voltage protection level [L-PE]/[N-PE] (U_p)	≤ 1.5 / ≤ 1.5 kV
Voltage protection level [L-PE]/[N-PE] at 5 kA (U_p)	≤ 1 / ≤ 1 kV
Response time (t_d)	≤ 25 ns
Max. mains-side overcurrent protection with "V-connection"	63 A gG
Max. mains-side overcurrent protection with stub wiring	125 A gG
Short-circuit withstand capability for max. mains-side overcurrent protection (I_{SCCR})	50 kA _{rms}
Temporary overvoltage (TOV) (U_T) – Characteristic	335 V / 5 sec. – withstand
Temporary overvoltage (TOV) (U_T) – Characteristic	440 V / 120 min. – safe failure
Operating temperature range (T_U)	-40 °C ... +80 °C
Operating state / fault indication	green / red
Number of ports	1
Cross-sectional area (min.)	1.5 mm ² solid / flexible
Cross-sectional area (max.) with stub wiring	35 mm ² stranded / 25 mm ² fine-stranded
Cross-sectional area (max.) with "V-connection"	16 mm ² Stranded / fine-stranded
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	DEKRA
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

Arrester use at 16.7 Hz – traction power supply systems

Type	DG MD TNS 275 FM
Part No.	943 405
– Test voltage AC (U_c)	275 V
– Nominal AC voltage (U_N)	230 / 400 V
– Nominal frequency AC (f_N)	16.7 Hz
Weight	350 g
Customs tariff number (Comb. Nomenclature EU)	85363030
GTIN	4013364477117
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.