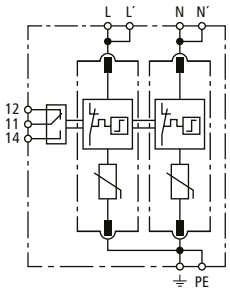
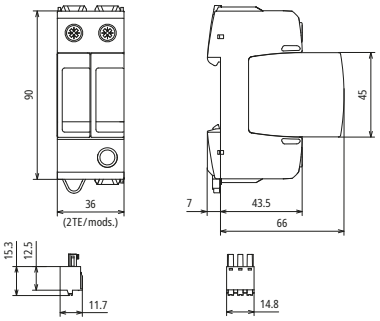
DG MD TN 275 FM (943 205)

- 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





Basic circuit diagram



Dimension drawing

Modular surge arrester for use in single-phase TN systems; with floating remote signalling contact.

NEW

Type	DG MD TN 275 FM
Part No.	**943 205**
Technical data	
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 (AC) (U_C)	275 V (50 / 60 Hz)
Nominal discharge current (8/20 µs) (I_n)	20 kA
Max. discharge current (8/20 µs) (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_A)	≤ 25 ns
Max. mains-side overcurrent protection	125 A gG
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 (U_T) – characteristic	335 V / 5 sec. – Festigkeit 440 V / 120 min. – sicherer Ausfall
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	2 Standard DIN module, DIN 43880
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	
Test voltage AC (U_C)	275 V

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: Tested • NEW: 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

Arrester use at 16.7 Hz – traction power supply systems	
Nominal AC voltage (U_N)	230 / 400 V
Nominal frequency AC (f_N)	16.7 Hz
Test values according to UL 1449	
Mode	L-N/L-G/N-G
Rated Voltage (AC, 50/60 Hz)	230 V
MCOV (AC, 50/60 Hz) [L-N]/[L-G]/[N-G]	275 V
MLV (AC, 50/60 Hz) [L-N]/[L-G]/[N-G]	2270/1790/1790 V
Nominal discharge current (8/20µs) (I_n)	20 kA
Maximum ambient temperature	+80 °C
AWG (conductors)	4-14 Cu solid/stranded
Torque (conductors)	35-45 Lbs-in
AWG (remote indicator)	14-22
Torque (remote indicator)	3 Lbs-in
UL 1449 edition	5th edition
Type (SPD classification)	Type 4 component assembly

Masterdata	
Net weight	230 g/pc(s)
GTIN	4013364554009
PU	1 pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363030

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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