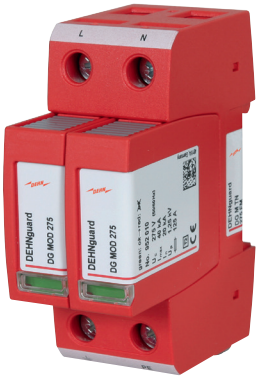
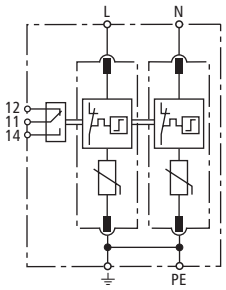
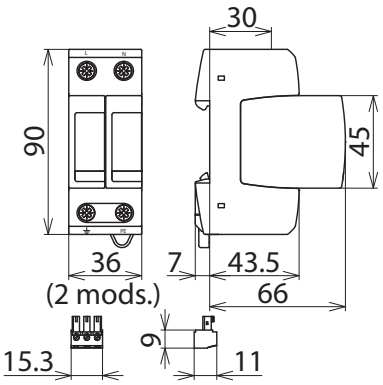
DG M TN 275 FM (952 205)

- Prewired complete unit consisting of a base part and plug-in protection modules
- High discharge capacity due to heavy-duty zinc oxide varistors / spark gaps
- High reliability due to „“Thermo Dynamic Control““ SPD monitoring device





Basic circuit diagram



Dimension drawing

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

Type	**DG M TN 275 FM**
Part No.	**952 205**
Standards	
Certification	UL
UL Standard	UL 1449 5th edition
UL File Number	E319777
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
Technical data	
SPD according to EN 61643-11 / IEC 61643-11	type 2 / class II
Energy coordination with terminal equipment (≤ 10 m)	type 2 + type 3
Nominal voltage (a.c.) (U_N)	230 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
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
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.)	35 mm^2 stranded / 25 mm^2 flexible
For mounting on	35 mm DIN rails acc. to EN 60715
Enclosure material	thermoplastic, red, UL 94 V-0

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: Tested • NEU: 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

Technical data	
Place of installation	indoor installation
Degree of protection	IP 20
Capacity	2 Standard DIN module, DIN 43880
Approvals	KEMA, VDE, UL, ATEX, IECEx
ATEX approvals	TÜV 22 ATEX 8929 X: II 3 G Ex ec IIC T4 Gc
IECEx approvals	IECEx TUR 22.0079X: Ex ec IIC T4 Gc
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
Nominal AC voltage (U_N)	230 V
Nominal frequency AC (f_N)	16.7 Hz

Masterdata	
Net weight	231.7 g/pc(s)
GTIN	4013364108400
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.