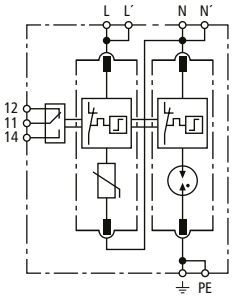
DEHNguard modular

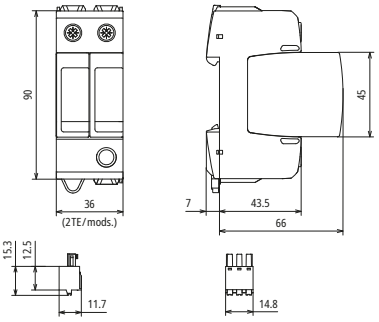
DG MD TT 2P 275 FM (943115)

- 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 single-phase TT and TN systems (1+1 configuration); with floating remote signalling contact.

NEW

Type	DG MD TT 2P 275 FM
Part No.	**943115**
Technical data	
SPD as per IEC 61643-11 / EN IEC 61643-11	Type 2 + type 3
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.) [L-N] (U_C)	275 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) [N-PE] (U_C)	255 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 [L-N] (U_{OC})	20 kV
Combination wave [N-PE] (U_{OC})	6 kV
Nominal load current for “V-connection” (I_L)	63 A
Voltage protection level [L-N]/[N-PE] (U_P)	≤ 1.5 / ≤ 1.5 kV
Voltage protection level [L-PE] (U_P)	≤ 1.5 kV
Voltage protection level [L-N]/[N-PE] at 5 kA (U_P)	≤ 1 / ≤ 1.5 kV
Protective conductor current (I_{PE})	≤ 10 µA
continuous current (I_C)	≤ 0.5 mA
Response time [L-N] (t_A)	≤ 25 ns
Response time [N-PE] (t_A)	≤ 100 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 (TOV) [L-N] (U_T) – Characteristic	335 V / 5 sec. – Festigkeit 440 V / 120 min. – sicherer Ausfall
Temporary overvoltage (TOV) [N-PE] (U_T) - Characteristic	1200 V / 200 ms – withstand
Condition at the end of life time of the SPD A	Open Circuit Mode (OCM)
Overvoltage category (OVC) main circuit	III
Insulation between main and remote circuit	Double insulation
Operating temperature range (T_U)	-40 °C ... +80 °C
Operating state / fault indication	green / red
Number of ports	1

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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	
Cross-sectional area (min.)	1.5 mm² solid / flexible
Cross-sectional area (max.) with stub wiring	35 mm² stranded / 25 mm² fine-stranded
Cross-sectional area (max.) with “V-connection”	16 mm² 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 (integrated)
Capacity	2 Standard DIN module, 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 mm² solid / flexible
Overvoltage category (OVC) auxiliary circuit	II
Arrester use at 16.7 Hz – traction power supply systems	
Test voltage AC (U_C)	275 V
Nominal AC voltage (U_N)	230 / 400 V
Nominal frequency AC (f_N)	16.7 Hz

Masterdata	
Net weight	230 g/pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363030
GTIN	4013364554023
PU	1 pc(s)

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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