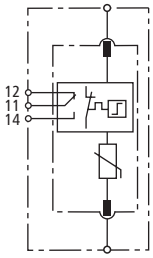
DEHNguard S

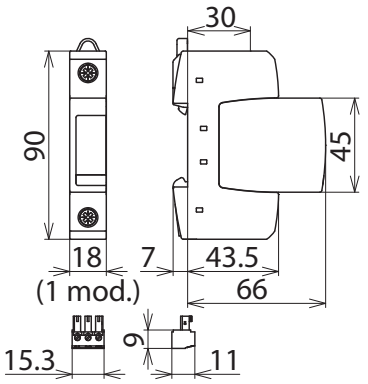
DG S 275 FM (952090)

- Multi-purpose surge arrester consisting of a base element and a plug-in protection module
- High discharge capacity due to heavy-duty zinc oxide varistor
- High reliability due to „“Thermo Dynamic Control““ SPD monitoring device





Basic circuit diagram



Dimension drawing

Pluggable single-pole surge arrester consisting of a base part and a plug-in protection module; with floating remote signalling contact.

Type	**DG S 275 FM**
Part No.	**952090**
Standards	
Certification	UL
UL Standard	UL 1449 5th edition
UL File Number	E319777
Test values according to UL 1449	
Rated Voltage (AC, 50/60 Hz)	275 V
MCOV (AC, 50/60 Hz)	275 V
Voltage protection rating (VPR)	≤ 1500 V
Nominal discharge current (8/20µs) (I_n)	20 kA
Maximum ambient temperature	85 °C
UL 1449 edition	5th edition
Type (SPD classification)	Type 4 component assembly
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 V (50 / 60 Hz)
Max. continuous operating voltage (AC) (U_C)	275
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
Voltage protection level (U_P)	≤ 1.25 kV
Voltage protection level at 5 kA (U_P)	≤ 1 kV
Protective conductor current (I_{PE})	≤ 0.5 mA
continuous current (I_C)	≤ 0.5 mA
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 (TOV) (U_T)	335 V / 5 sec.
TOV characteristic	withstand
Temporary overvoltage (U_T) – characteristic	335 V / 5 sec. – Festigkeit 440 V / 120 min. – sicherer Ausfall
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

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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	
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 mm² solid / flexible
Cross-sectional area (max.)	35 mm² stranded / 25 mm² flexible
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	1 Standard DIN module, DIN 43880
Approvals	DEKRA, VDE, UL, VdS, CSA
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 V
Nominal frequency AC (f_N)	16.7 Hz

Masterdata	
Net weight	1 pc(s)/st
Customs tariff number (Comb. Nomenclature EU)	85363030
GTIN	4013364108509
PU	1 st

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.

2-14 Cu solid/stranded