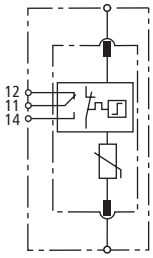
DEHNguard S

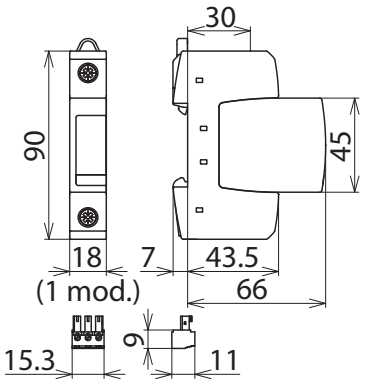
DG S 600 FM (952096)

- 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 600 FM**
Part No.	**952096**
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)	600 V
MCOV (AC, 50/60 Hz)	600 V
MLV (AC, 50/60 Hz)	2820 V
Nominal discharge current (8/20µs) (I_n)	20 kA
Maximum ambient temperature	+85 °C
AWG (conductors)	2-14 Cu solid/stranded
Torque (conductors)	35-45 Lbs-in
AWG (remote indicator)	14-22 Cu
Torque (remote indicator)	3 Lbs-in
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)	480 V (50 / 60 Hz)
Max. continuous operating voltage (AC) (U_C)	600 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
Voltage protection level (U_p)	≤ 2.5 kV
Voltage protection level at 5 kA (U_p)	≤ 2 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	100 A gG
Short-circuit withstand capability for max. mains-side overcurrent protection (I_{SCCR})	50 kA_{rms}
Temporary overvoltage (U_T) – characteristic	700 V / 5 sec. – Festigkeit 915 V / 120 min. – sicherer Ausfall
Condition at the end of life time of the SPD A	Open Circuit Mode (OCM)

© DEHN, Inc. • 500 S Main Street, Suite 115 • Mooresville, NC 28115 • United States • Tel. +1 877-927-6510 • contactDEHN@dehn.us • www.dehn.us

: 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	
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
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, 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)	600 V
Nominal AC voltage (U_N)	480 V
Nominal frequency AC (f_N)	16.7 Hz

Masterdata	
Net weight	1 pc(s)/st
Customs tariff number (Comb. Nomenclature EU)	85363030
GTIN	4013364109926
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