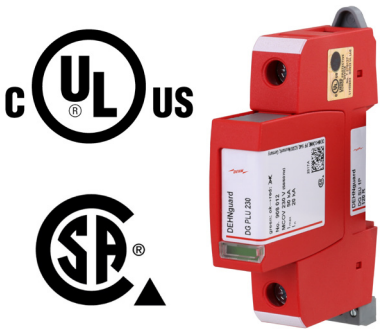
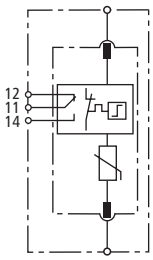
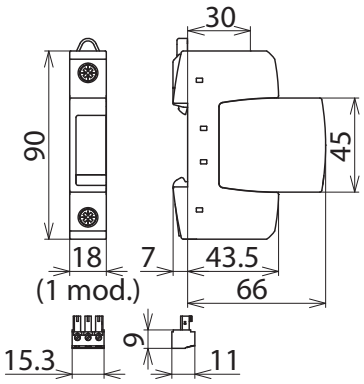
DG SU 1P 120 R (908 090)

- Prewired complete unit without the need for additional surge protective devices
- High discharge capacity due to heavy-duty zinc oxide varistors ($I_{max.}$ 50 kA 8/20)
- Short-circuit current rating (SCCR) 200 kA
- ANSI/UL 1449 open-type 1 SPD





Basic circuit diagram



Dimension drawing

DIN rail mount, pluggable surge arrester consisting of a base part and plug-in protection module for application in Single Phase electrical systems; has floating Form C (SPDT) remote status contacts

Type	**DG SU 1P 120 R**
Part No.	**908 090**
Standards	
Certification	UL
UL Standard	UL 1449 5th edition
UL File Number	E319777
Test values according to UL 1449	
Type (SPD classification)	Type 1 component assembly
Voltage protection rating (VPR)	700 V
Nominal discharge current (8/20µs) (I_n)	20 kA
Maximum ambient temperature	85 °C
AWG (conductors)	2-14 Cu solid or stranded
Torque (conductors)	35 - 45 Lbs-in
AWG (remote indicator)	16 - 22 Cu
Torque (remote indicator)	3 Lbs-in
Technical data	
SPD as per ANSI/UL 1449	□□□□□□□ 1 SPD
UL 1449 edition	5th edition
SPD as per CSA-C22.2 no. 269.1	Type 4-1 Component Assembly
Nominal System Voltage (U_N)	127 Vac
Frequency	50 / 60 Hz
Max. continuous operating voltage AC (MCOV)	230 Vac
Nominal discharge current (8/20 µs) (I_n)	20 kA
Voltage protection rating (VPR)	700 V_{pk}
Max. mains-side overcurrent protection	Not needed
Short circuit current rating (SCCR)	200 kA
System type	Single Phase
Operating temperature range (T_U)	-40°C...+85°C
Operating state / fault indication	Green = Good ; Red = Replace Module
Cross-sectional area (min.)	14 AWG / 2.5 mm²
Cross-sectional area (max.)	2 AWG / 35 mm²
Terminal Torque Ratings	35-45 Lbs-in
For mounting on	35 mm DIN rails acc. to EN 60715
Enclosure material	thermoplastic, red, UL 94 V-0
Degree of protection	IP 20
Capacity	1 Standard DIN module, DIN 43880
Approvals	UL, CSA
Type of remote signalling contact	Floating (dry), Form C (SPDT)
Remote status NEC circuits	NEC Class 2 circuits only

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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 for remote signalling terminals	AWG 16-22 / 1.5 mm² - 0.34mm²
Remote Status Terminal Torque Ratings	3 Lbs-in
Extended technical data	
Max. discharge current (8/20) (I_{max})	50 kA

Masterdata	
Net weight	117 g/pc(s)
GTIN	4013364148550
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.