

UK Technical Data

SPD Type 2 DCM 1 *230v 50Hz*

for domestic installations

Function

The DEHNguard DG TT 2P 5 275 is a type two surge protection device designed for 230V single phase TT and TN systems. It provides surge protection between line and neutral (L- N) and neutral and protective earth (N - PE). This device limits transient overvoltages to a voltage protection level (Up) of ≤ 1.5 kV.

Features

The SPD comes as a kit. This includes the SPD, 32A single pole MCB, 2 way Busbar and live, neutral and earth cable links.

Mounting

Mounting by clamping the SPD and MCB onto din rail in a Consumer Unit.

Applications

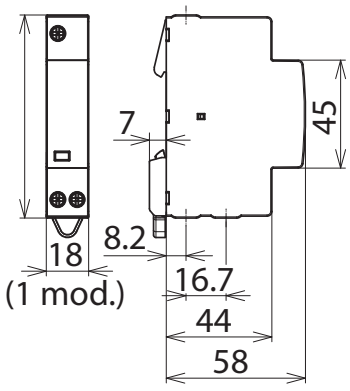
To be used in domestic installations requiring protection as per BS 7671 18th edition AMD.4.

Technical Data

Technical Data	SPD Type 2 DCM 1
Type	DG TT 2P 5 275
Part No.	900 450
SPD according to BS EN 61643-11	type 2
Power supply system	type 2 + type 3
Nominal voltage (a.c.) (UN)	230 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) [L-N] (UC)	275 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) [N-PE] (UC) c	255 V (50 / 60 Hz)
Follow current extinguishing capability [N-PE] (Ifi)	100 A
Nominal discharge current (8/20 µs) [L-N] (In)	5 kA
Nominal discharge current (8/20 µs) [N-PE] (In)	20kA
Max. discharge current (8/20 µs) [L-N] (Imax)	15kA
Max. discharge current (8/20 µs) [N-PE] (Imax)	40kA
Voltage protection level (UP)	≤ 1.5 kV
Protective conductor current (IPE)	≤ 5 µA
Response time [L-N] (tA)	≤ 25 ns

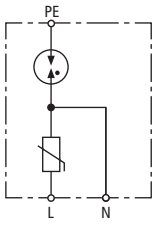
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Response time [N-PE] (tA)	≤ 100 ns
Max. mains-side overcurrent protection	MCB C 63 A
Short-circuit withstand capability (ISCCR)	6 kA
Temporary overvoltage (TOV) [L-N] (UT) – Characteristic (UT)	335 V / 5 sec. – withstand 440 V / 120 min. – safe failure
Temporary overvoltage (TOV) [N-PE] (UT) – Characteristic (UT)	1200 V / 200 ms. – withstand
Operating temperature range	-40 °C ... +80 °C
Operating state / fault indication	green / red
Number of ports	1
Cross-sectional area, solid / flexible (min.)	0.75 mm2
Cross-sectional area, solid / flexible (max.)	10 mm2 / 6 mm2
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
Capacity	1 Standard DIN module, DIN 43880
Approvals	DEKRA
	Master Data
Net weight	77 g/pc(s)
GTIN	4013364157989
PU	> 1 pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363030

Dimensions



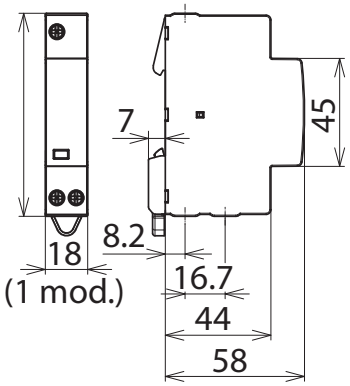
Dimensional drawing Group view

Wiring example



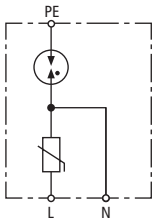
Wiring diagram

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram