

Lightning and Surge Protection

EnerPro C S pluggable

EP C S TN 275 (/FM)
EP C S TNC 275 (/FM)
EP C S TNS 275 (/FM)

Pluggable combined multi-pole Surge Protective Device
meeting the requirements of protection category **T2** (C), class II

Surge Protection in multi-pole TN-Power Net Systems



EP C S TN 275

EP C S TNC 275

EP C S TNS 275

- Category **T2** Surge Protective Device (SPD)
- Multi-pole complete device with socket and plugged-in protection modules
- Can be co-ordinated with an upstream installed **T1** lightning current SPD
- High discharge capacity thanks to high-performance varistors (MOV)
- Failure indicator displayed by change of colour
- Potential-free SPDT remote contact (optional) for function control

Product description

Leutron surge protectors series EP C S ... are single block SPD's with pluggable modules, usually installed in the sub-distribution panel.

EP C S TN 275(/FM) is a **two-pole** surge protector for TN - Power Net System

EP C S TNC 275(/FM) is a **three-pole** surge protector for TNC - Power Net System

EP C S TNS 275(/FM) is a **four-pole** surge protector for the TNS - Power Net System

These devices serve as surge protectors at the supply end of electrical equipment and systems. They are fitted with a thermal protective change over contact, which opens if the varistor exceed a certain level of temperature due to overload by too high leakage current. In that case, the failure indicator changes from green to red and the optional remote signal change-over contact switches over.

The protective circuit is installed in an easy-to-handle compact socket for 35mm DIN rail mounting (EN50022) with multifunctional screw terminals for wire and bus-bar connection. There is an optional potential-free remote signal contact (/FM) inside the housing. The wire connection is made by a pluggable screw terminal block.

Protects People and Valuables

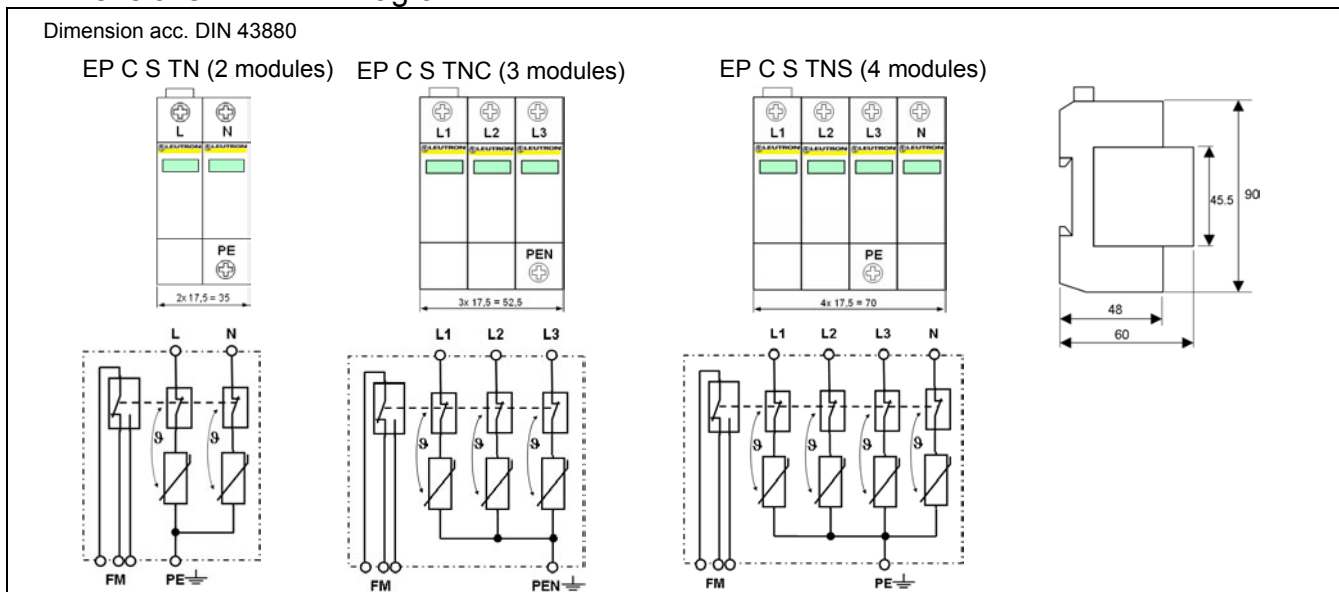
 **LEUTRON®**

Technical Data:

Type	Art. Nr.:	Remarks
EP C S TN 275	381 240	for one phase and neutral (L1 / N –PE)
EP C S TN 275 /FM	381 241	with remote signal contact
EP C S TNC 275	381 030	for three phases (L1 / L2 / L3 – PE)
EP C S TNC 275 /FM	381 035	with remote signal contact
EP C S TNS 275	381 050	for three phases and neutral (L1 / L2 / L3 / N – PE)
EP C S TNS 275 /FM	381 055	with remote signal contact
EP C S 275	381 242	Pluggable line protection module for replacement, without socket

Protection category acc. to E DIN VDE 0675-6 11/98-A1 and EN 61643-11 resp. IEC 61643-1			II (C) class II
Nominal power supply voltage 50/60 Hz	U_N	[V]	230 / 400
Rated voltage (max. continuous operating voltage) 50/60 Hz	U_C	[V]	275
Max. permissible line resp. backup fuse	I	[A]	100 A gL/gG
Voltage protection level at 5kA (8/20 μ s)	U_P	[kV]	< 1.0
Voltage protection level at i_{sn} (8/20 μ s)	U_P	[kV]	< 1.4
Response time	t_A	[ns]	< 25
Nominal discharge current (8/20 μ s)	i_{sn}	[kA]	20
Max. discharge current (8/20 μ s)	I_{max}	[kA]	40
Short-circuit withstand capability at max. perm. pre-fuse, 50Hz		[kA]	25
Operating temperature range	t	[°C]	-40 ... +80
Max. cross-sectional area		[mm ²]	50 stranded / 35 flexible
Recommended cross-sectional area		[mm ²]	25
Recommended connection torque		[Nm]	4,5
Max. cross-sectional area for remote signal contact		[mm ²]	1,5
Max. switching capacity of remote signal contact (FM) change over (SPDT) contact		[V/A]	AC 250 V 0,5 A / DC 250 V 0,1 A
Ambient protection category (IEC/EN 60529)			IP 20
Material of housing / colour			Polyamide PA 6 30SV, UL94 V0 / yellow
Mounting on			35mm DIN rail (DIN / EN 50022)

Dimensions in mm / Diagram



EP C S TN TNC TNS 275
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Subject to technical modifications and delivery possibilities

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