

# PLT-T3-120-FM - Type 3 surge protection device



2906489

<https://www.phoenixcontact.com/us/products/2906489>

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Pluggable device protection, according to type 3/Class III, for 1-phase power supply networks with separate N and PE (3-conductor system: L1, N, PE) with remote indication contact.

## Commercial data

Item number	2906489
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CLP311
GTIN	4055626082073
Weight per piece (including packing)	80 g
Weight per piece (excluding packing)	77.1 g
Country of origin	DE

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## Technical data

### Product properties

Product type	Device protection
IEC power supply system	TT TN-S
Type	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical, remote indicator contact

### Insulation characteristics

Overvoltage category	III
Pollution degree	2
IEC test classification	III T3
EN type	T3
Number of ports	One

### Electrical properties

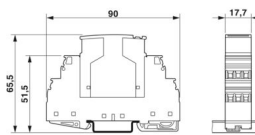
#### Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	N/C contact
Operating voltage	250 V AC 125 V DC (200 mA DC)
Operating current	3 A AC 1 A DC (30 V DC)

### Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.8 Nm
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

### Dimensions

Dimensional drawing	
Width	17.7 mm
Height	90 mm

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Depth	65.5 mm
Horizontal pitch	1 Div.

## Material specifications

Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6
Housing material	PA 6.6

## Protective circuit

Mode of protection	L-N
	L-PE
	N-PE
Direction of action	1L-N & N-PE
Nominal voltage $U_N$	120 V AC (TN-S)
	120 V AC (TT - only in use with RCD)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$	150 V AC
Rated load current $I_L$	16 A AC (at 63 °C)
Protective conductor current $I_{PE}$	$\leq 5 \mu\text{A}$
Standby power consumption $P_C$	$\leq 200 \text{ mVA}$
Reference test voltage $U_{REF}$	132 V AC
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	3 kA
Combination wave $U_{OC}$	6 kV
Voltage protection level $U_p$ (L-N)	$\leq 0.75 \text{ kV}$
Voltage protection level $U_p$ (L-PE)	$\leq 0.85 \text{ kV}$
Voltage protection level $U_p$ (N-PE)	$\leq 0.85 \text{ kV}$
TOV behavior at $U_T$ (L-N)	175 V AC (5 s / withstand mode)
	240 V AC (120 min / withstand mode)
	240 V AC (5 s / withstand mode)
TOV behavior at $U_T$ (L-PE)	240 V AC (120 min / withstand mode)
	1332 V AC (200 ms / safe failure mode)
	1200 V AC (200 ms / safe failure mode)
TOV behavior at $U_T$ (N-PE)	1200 V AC (200 ms / safe failure mode)
Response time $t_A$ (L-N)	$\leq 25 \text{ ns}$
Response time $t_A$ (L-PE)	$\leq 100 \text{ ns}$
Response time $t_A$ (N-PE)	$\leq 100 \text{ ns}$
Short-circuit current rating $I_{SCCR}$	1.5 kA AC
Maximum backup fuse for through wiring	16 A (B)
Max. backup fuse with branch wiring	16 A (B)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

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Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

## Approvals

### UL specifications

Maximum continuous operating voltage MCOV	150 V AC
Nominal discharge current $I_n$	3 kA
Mode of protection	L-N
	L-G
	N-G
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	800 V
Measured limiting voltage MLV (L-G)	700 V
Measured limiting voltage MLV (N-G)	700 V
SPD Type	4CA

### UL connection data

Tightening torque	5 lb <sub>f</sub> -in. ... 7 lb <sub>f</sub> -in.
Conductor cross-section AWG	14 ... 12

## Standards and regulations

Standards/specifications	EN 61643-11
Note	2012

## Mounting

Mounting type	DIN rail: 35 mm
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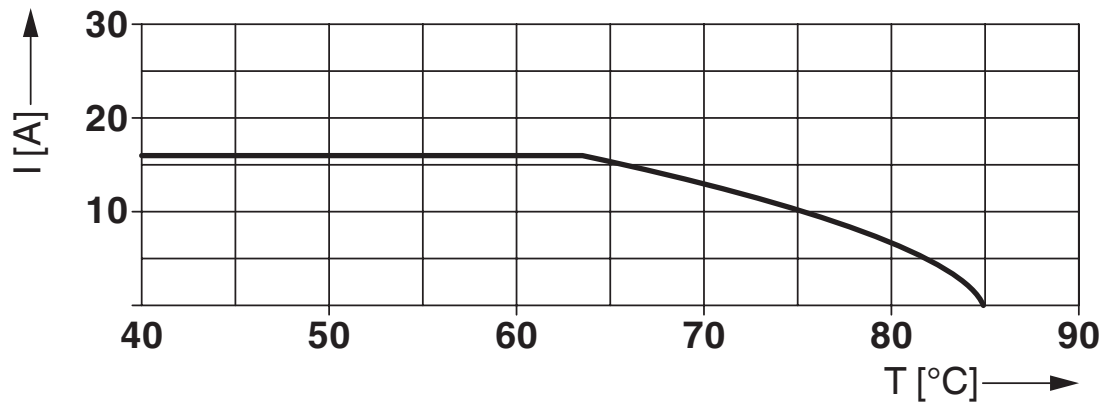
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## Drawings

Dimensional drawing



Diagram



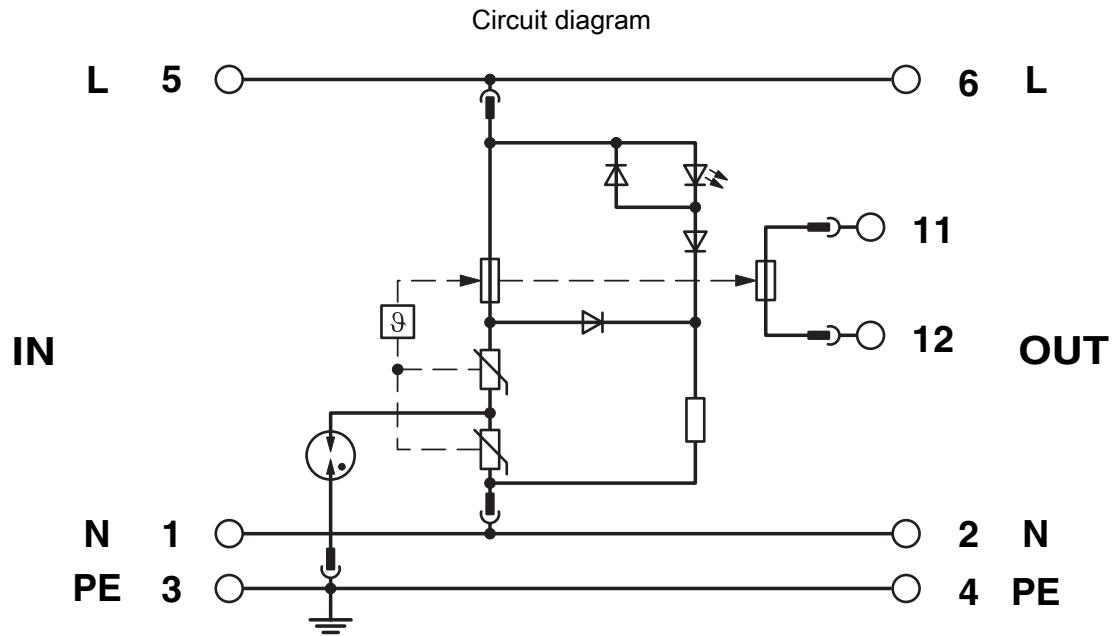
Nominal current depending on ambient temperature

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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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