

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



2907918

<https://www.phoenixcontact.com/us/products/2907918>

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Type 2/3 surge protection, consisting of protective plug and base element, with integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage: 120 V AC/DC

## Your advantages

- Surge protection family for universal use with optimum energy coordination from the lightning current arrester to the device protection
- Easy to maintain due to consistently pluggable protection modules
- Excellent level of information provided by mechanical/visual status indicator and remote indication contact
- Your preferred connection technology can be selected as both screw connection and Push-in connection are available
- Optimal additional protection of the industrial power supply for a longer service life and increased availability of the system
- 5-year warranty on your QUINT 4 power supply when installed together with PLT-SEC, see document in the download area

## Commercial data

Item number	2907918
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	CL19
Product key	CL14A2
GTIN	4055626257440
Weight per piece (including packing)	96.91 g
Weight per piece (excluding packing)	81.16 g
Customs tariff number	85363030
Country of origin	DE

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## Technical data

### Product properties

Product type	Device protection
Product family	SEC Family
IEC power supply system	TN-S
	TT
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	II / III
	T2 / T3
EN type	T2 / T3
Number of ports	One

### Electrical properties

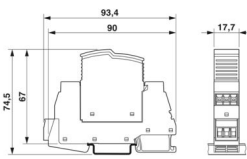
#### Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	250 V AC
	125 V DC (200 mA DC)
Operating current	0.5 A AC
	0.5 A DC (75 V DC)

### Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 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

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Height	93.4 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

## Material specifications

Color (Male connector)	light gray (RAL 7035)
Color (Base element)	gray (RAL 7042)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6-FR 20 % GF PA 6.6-FR
Housing material	PA 6.6-FR 20 % GF PA 6.6-FR

## 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)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$	150 V AC
Rated load current $I_L$	26 A (at 30 °C)
Protective conductor current $I_{PE}$	$\leq 5 \mu A$
Standby power consumption $P_C$	$\leq 10.6 \text{ mVA}$ (at $U_{REF}$ )
	$\leq 13.5 \text{ mVA}$ (at $U_C$ )
Reference test voltage $U_{REF}$	132 V AC
Nominal discharge current $I_n$ (8/20) $\mu s$	5 kA
Maximum discharge current $I_{max}$ (8/20) $\mu s$	10 kA
Combination wave $U_{OC}$	6 kV
Voltage protection level $U_p$ (L-N)	$\leq 0.75 \text{ kV}$ (at $U_{OC}$ )
	$\leq 0.95 \text{ kV}$ (at $I_n$ )
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)	240 V AC (5 s / withstand mode)
	240 V AC (120 min / withstand mode)
TOV behavior at $U_T$ (L-PE)	240 V AC (5 s / withstand mode)
	240 V AC (120 min / withstand mode)
	1332 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)	$\leq 100 \text{ ns}$

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Short-circuit current rating $I_{SCCR}$	10 kA AC
Maximum backup fuse for through wiring	25 A (gG / B / C)
Max. backup fuse with branch wiring	32 A (gG / B / C)

## Additional technical data

Short-circuit current rating $I_{SCCR}$	0.25 kA DC (Without additional backup fuse in the DC branch wiring)
	5 kA DC (for 20 A gG / B backup fuse)
Residual voltage $U_{res}$ (L-N)	$\leq 0.68$ kV (at 2 kA)
	$\leq 0.75$ kV (at 3 kA)
	$\leq 0.64$ kV (at $U_{OC} = 4$ kV)
Residual voltage $U_{res}$ (L-PE)	$\leq 0.58$ kV (at 2 kA)
	$\leq 0.65$ kV (at 3 kA)
	$\leq 0.75$ kV (at $U_{OC} = 4$ kV)
Residual voltage $U_{res}$ (N-PE)	$\leq 0.58$ kV (at 2 kA)
	$\leq 0.65$ kV (at 3 kA)
	$\leq 0.75$ kV (at $U_{OC} = 4$ kV)
Maximum continuous operating voltage $U_C$	150 V DC
Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE
IEC test classification (in accordance with IEC 61643-21)	D1
Impulse durability (wire-wire)	D1 - 500 A
Impulse durability (line-earth)	D1 - 500 A
Pulse discharge current $I_{imp}$ (10/350) $\mu$ s (line-line)	0.5 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu$ s (line-earth)	0.5 kA

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	$\leq 2000$ m (operating voltage remote contact $\leq 250$ V)
	$\leq 6000$ m (operating voltage remote contact $\leq 150$ V)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x $\pm$ X, $\pm$ Y, $\pm$ Z)
Vibration (operation)	5g (5 ... 500 Hz / 2.5 h / X, Y, Z)

## Approvals

### UL specifications

Maximum continuous operating voltage MCOV	150 V AC
	150 V DC
Short-circuit current rating (SCCR)	10 kA AC
	5 kA DC
Voltage protection rating VPR (L-N)	700 V

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Voltage protection rating VPR (L-G)	700 V
Voltage protection rating VPR (N-G)	900 V
Voltage protection rating VPR (DC+) - (DC-)	700 V
Voltage protection rating VPR (DC+) - G	900 V
Voltage protection rating VPR (DC-) - G	900 V
Nominal discharge current $I_n$	5 kA
Mode of protection	L-N
	L-G
	N-G
	(DC+) - (DC-)
	(DC+) - G
	(DC-) - G
Nominal voltage	150 V DC
Rated load current $I_L$	20 A
Power distribution system	Single phase
	DC
Nominal frequency	50/60 Hz
SPD Type	2 (Open-Type SPD)

## UL indicator/remote signaling

Operating voltage	250 V AC (0.5 A)
DC operating voltage	12 V DC (4 A)
	24 V DC (2 A)
	48 V DC (1 A)

## UL connection data

Tightening torque	4.4 lb <sub>F</sub> -in.
Conductor cross-section AWG	16 ... 12

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

## EN 61643-11

Standards/specifications	EN 61643-11
Note	2012

## Mounting

Mounting type	DIN rail: 35 mm
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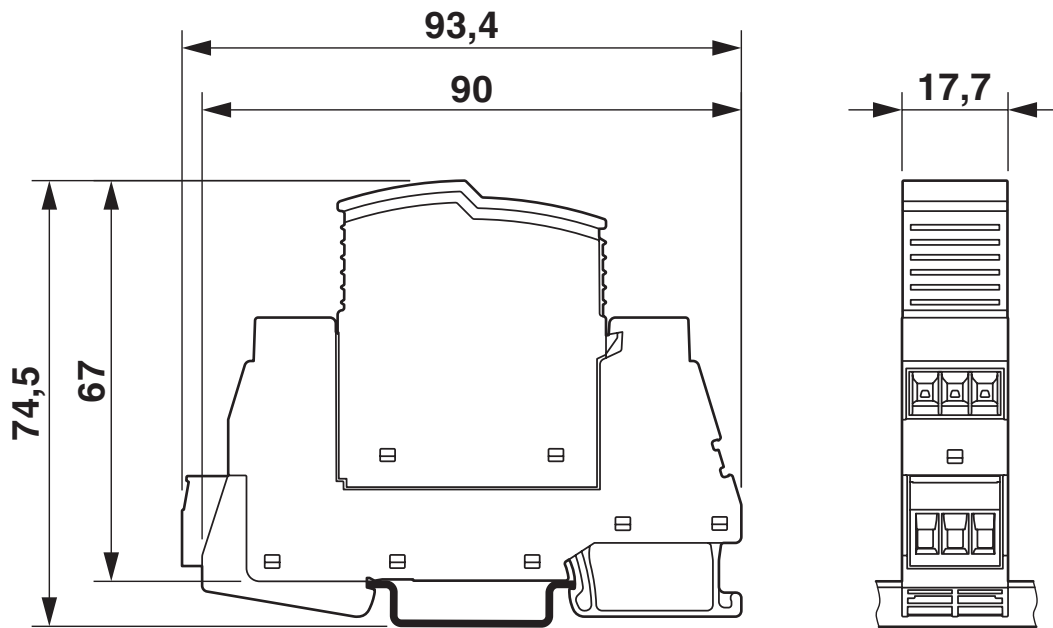


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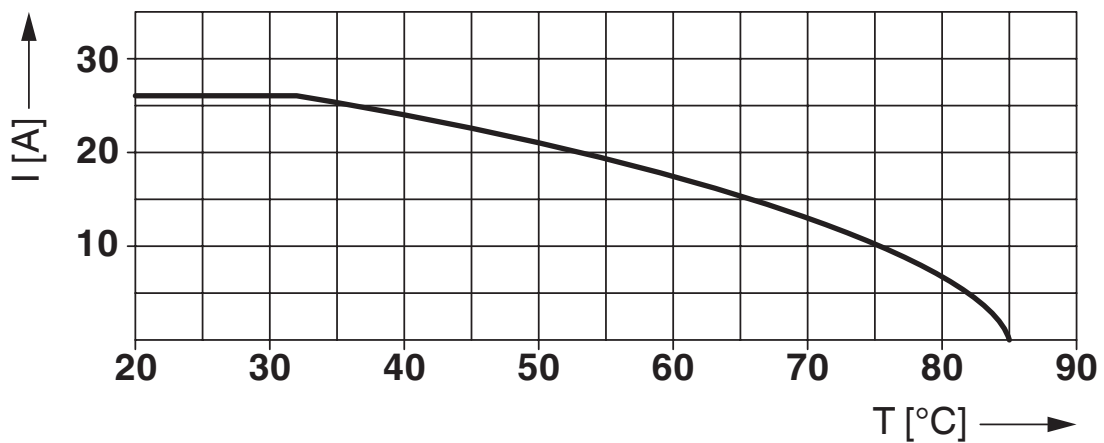
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## Drawings

Dimensional drawing



Diagram



Nominal current depending on ambient temperature

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2907918>



**IECEE CB Scheme**

Approval ID: NL-51083

**CCA**

Approval ID: NTR-NL 7676



**KEMA-KEUR**

Approval ID: 71-103027



**UL Listed**

Approval ID: FILE E 330181



**CSA**

Approval ID: 13631



**cUL Listed**

Approval ID: FILE E 330181

**UAE-RoHS**

Approval ID: 23-10-88891

**DNV**

Approval ID: TAE00002U7



**cUL Recognized**

Approval ID: FILE E 340736



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## Classifications

### ECLASS

ECLASS-13.0	27171203
ECLASS-15.0	27171203

### ETIM

ETIM 10.0	EC000942
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

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