

## Type 3 surge protection plug - PLT-SEC-T3-120-P - 2905234

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Replacement plug for type 3 device protection from the PLUGTRAB SEC T3 product range. 120 V nominal voltage.

The illustration shows version PLT-SEC-T3-230-P

### Why buy this product

- Varistor-based device protection
- Can be used without separate backup fuse thanks to integrated overcurrent protection
- Pluggable
- Optical status indicator via LED
- Plugs can be checked with CHECKMASTER 2

### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 STK    |
| Weight per Piece (excluding packing) | 40.000 g |
| Custom tariff number                 | 85363030 |
| Country of origin                    | Germany  |

### Technical data

#### Environmental Product Compliance

|            |  |
|------------|--|
| China RoHS | No hazardous substances above threshold values |
|------------|--|

#### Dimensions

|                  |         |
|------------------|---------|
| Height           | 60.9 mm |
| Width            | 17.5 mm |
| Depth            | 44.8 mm |
| Horizontal pitch | 1 Div.  |

## Type 3 surge protection plug - PLT-SEC-T3-120-P - 2905234

### Technical data

#### Ambient conditions

|   |   |
|---|---|
| Degree of protection                    | IP20                                      |
| Ambient temperature (operation)         | -40 °C ... 70 °C                          |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C                          |
| Altitude                                | ≤ 2000 m (amsl (above mean sea level))    |
| Permissible humidity (operation)        | 5 % ... 95 %                              |
| Shock (operation)                       | 30g (half sinus / 11 ms / 3x ±X, ±Y, ±Z)  |
| Vibration (operation)                   | 5g (10 ... 150 Hz/20 cycles/axis/X, Y, Z) |

#### General

|  |                     |
|--|---------------------|
| IEC test classification                | III                 |
|  | T3                  |
| EN type                                | T3                  |
| SPD design                             | Combination type    |
| Mode of protection                     | L-N                 |
|  | L-PE                |
|  | N-PE                |
|  | (L+) - (L-)         |
|  | (L+/L-) - PE        |
| Mounting type                          | On base element     |
| Color                                  | light grey RAL 7035 |
| Housing material                       | PA 6.6-FR 20% GF    |
|  | PA 6.6-FR           |
| Degree of pollution                    | 2                   |
| Flammability rating according to UL 94 | V-0                 |
| Type                                   | Male                |
| Number of positions                    | 2                   |
| Surge protection fault message         | optical             |

#### Protective circuit

|   |                                      |
|---|--------------------------------------|
| 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 voltage $U_C$          | 150 V AC                             |
|   | 150 V DC                             |
| Residual current $I_{PE}$                 | ≤ 5 μA                               |
| Nominal discharge current $I_n$ (8/20) μs | 3 kA                                 |
| Standby power consumption $P_C$           | ≤ 150 mVA (at $U_{REF}$ )            |
|   | ≤ 175 mVA (at $U_C$ )                |

## Type 3 surge protection plug - PLT-SEC-T3-120-P - 2905234

### Technical data

#### Protective circuit

|   |  |
|---|--|
| Reference test voltage $U_{REF}$        | 132 V AC                               |
| Combination wave $U_{OC}$               | 6 kV                                   |
| Voltage protection level $U_p$ (L-N)    | $\leq 0.85$ kV                         |
| Voltage protection level $U_p$ (L-PE)   | $\leq 0.95$ kV                         |
| Voltage protection level $U_p$ (N-PE)   | $\leq 0.95$ 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)               | $\leq 25$ ns                           |
| Response time $t_A$ (L-PE)              | $\leq 100$ ns                          |
| Response time $t_A$ (N-PE)              | $\leq 100$ ns                          |
| Short-circuit current rating $I_{SCCR}$ | 1.5 kA AC                              |
|   | 0.25 kA DC                             |

#### Connection data

|                   |           |
|-------------------|-----------|
| Connection method | pluggable |
|-------------------|-----------|

#### UL specifications

|   |             |
|---|-------------|
| SPD Type                                  | 4CA         |
| Maximum continuous operating voltage MCOV | 150 V AC    |
|   | 150 V DC    |
| Nominal voltage                           | 120 V DC    |
| Mode of protection                        | L-N         |
|   | L-G         |
|   | N-G         |
|   | (L+) - (L-) |
|   | (L+) - G    |
|   | (L-) - G    |
| Power distribution system                 | 1           |
| Nominal frequency                         | 50/60 Hz    |
| Measured limiting voltage MLV (L-N)       | 780 V       |
| Measured limiting voltage MLV (L-G)       | 760 V       |
| Measured limiting voltage MLV (N-G)       | 760 V       |
| Measured limiting voltage MLV (L+) - (L-) | 780 V       |
| Measured limiting voltage MLV (L+) - G    | 760 V       |

# Type 3 surge protection plug - PLT-SEC-T3-120-P - 2905234

## Technical data

### UL specifications

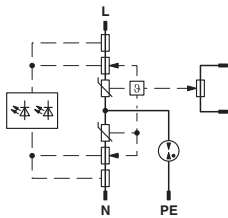
|  |       |
|--|-------|
| Measured limiting voltage MLV (L-) - G | 760 V |
| Nominal discharge current $I_n$        | 3 kA  |

### Standards and Regulations

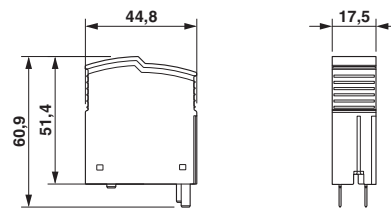
|                          |                  |
|--------------------------|------------------|
| Standards/specifications | EN 61643-11 2012 |
|--------------------------|------------------|

## Drawings

Circuit diagram



Dimensional drawing



## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27130801 |
| eCl@ss 6.0 | 27130806 |
| eCl@ss 8.0 | 27130806 |
| eCl@ss 9.0 | 27130806 |

### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC000942 |
|----------|----------|

## Approvals

### Approvals

#### Approvals

KEMA-KEUR / CCA / UL Recognized / cUL Recognized / EAC / GL / CSA / cULus Recognized

#### Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

### Approval details

## Type 3 surge protection plug - PLT-SEC-T3-120-P - 2905234

### Approvals

KEMA-KEUR  <http://www.dekra-certification.com> 2173868.01

CCA NTR-NL 7399


UL Recognized  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 330181

cUL Recognized  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 330181

EAC RU C-DE.A\*30.B01561

GL <http://www.gl-group.com/newbuilding/approvals/index.html> 14588-15 HH

CSA  <http://www.csagroup.org/us/en/services/testing-and-certification/certified-product-listing> 70056020

cULus Recognized  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

### Accessories

#### Accessories

#### Device marking

Label - EML (20XE)R - 0803452



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X, THERMOMARK S1.1, Mounting type: Adhesive, Lettering field: continuous x 20 mm

## Type 3 surge protection plug - PLT-SEC-T3-120-P - 2905234

### Accessories

Label - EML (20XE)R YE - 0803453



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X, THERMOMARK S1.1, Mounting type: Adhesive, Lettering field: continuous x 20 mm

---

### End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

---

### Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

---

### Additional products

Type 3 surge protection base element - PLT-SEC-T3-BE - 2905557



Base element for protective plugs from the PLUGTRAB SEC product series with remote indication contact.