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Especialistas en Automatización

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

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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               |
| GTIN         | <br>4 046356 939874 |

### Technical data

#### Dimensions

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

#### 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

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

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## Technical data

### 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 $I_{PE}$                      | $\leq 5 \mu A$                         |
| Nominal discharge current $I_n$ (8/20) $\mu s$ | 3 kA                                   |
| Standby power consumption $P_C$                | $\leq 150$ mVA (at $U_{REF}$ )         |
|  | $\leq 175$ mVA (at $U_C$ )             |
| 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) |

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## Technical data

### Protective circuit

|   |               |
|---|---------------|
| 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    |

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

## 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

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

## Approvals

Approvals

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

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Ex Approvals


UL Recognized / cUL Recognized / cULus Recognized

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Approvals submitted


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## Approval details

KEMA-KEUR 

CCA

UL Recognized 

cUL Recognized 

EAC

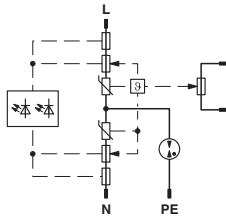
GL

cULus Recognized 

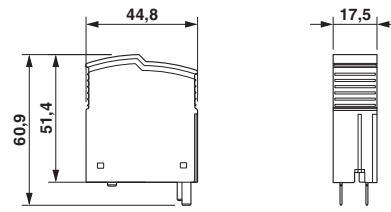
## Drawings

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

Circuit diagram



Dimensional drawing



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