

# PLT-SEC-T3-230-P-UT/PT - Type 3 surge protection plug



2907923

<https://www.phoenixcontact.com/us/products/2907923>

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Replacement plug for type 2/3 surge protection from the PLT-SEC-...-UT/PT product series.  
Nominal voltage 230 V.

## Commercial data

|                                      |                    |
|--------------------------------------|--------------------|
| Item number                          | 2907923            |
| Packing unit                         | 10 pc              |
| Minimum order quantity               | 10 pc              |
| Sales key                            | CL19               |
| Product key                          | CL14A4             |
| Catalog page                         | Page 83 (C-4-2019) |
| GTIN                                 | 4055626257600      |
| Weight per piece (including packing) | 38.777 g           |
| Weight per piece (excluding packing) | 33.16 g            |
| Customs tariff number                | 85363030           |
| Country of origin                    | DE                 |

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## Technical data

### Product properties

|                                |                  |
|--------------------------------|------------------|
| IEC power supply system        | TN-S             |
|                                | TT               |
| Type                           | Male             |
| Product type                   | Replacement plug |
| Product family                 | SEC Family       |
| Number of positions            | 2                |
| Surge protection fault message | optical          |

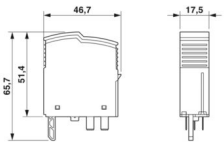
### Insulation characteristics

|                         |          |
|-------------------------|----------|
| Overvoltage category    | III      |
| Pollution degree        | 2        |
| IEC test classification | II / III |
|                         | T2 / T3  |
| EN type                 | T2 / T3  |
| Number of ports         | One      |

### Connection data

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

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 17.5 mm  |
| Height              | 46.7 mm  |
| Depth               | 65.7 mm  |
| Horizontal pitch    | 1 Div.   |

### Material specifications

|  |                       |
|--|-----------------------|
| Color                                  | light grey (RAL 7035) |
|  | 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

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|  |  |
|--|--|
| Mode of protection                                       | L-N                                      |
|  | L-PE                                     |
|  | N-PE                                     |
| Direction of action                                      | 1L-N & N-PE                              |
| Nominal voltage $U_N$                                    | 240 V AC (TN-S)                          |
|  | 240 V AC (TT)                            |
| Nominal frequency $f_N$                                  | 50 Hz (60 Hz)                            |
| Maximum continuous voltage $U_C$                         | 264 V AC                                 |
| Residual current $I_{PE}$                                | $\leq 5 \mu\text{A}$                     |
| Standby power consumption $P_C$                          | $\leq 26.40 \text{ mVA}$ (at $U_{REF}$ ) |
|  | $\leq 26.40 \text{ mVA}$ (at $U_C$ )     |
| Reference test voltage $U_{REF}$                         | 264.00 V AC                              |
| Nominal discharge current $I_n$ (8/20) $\mu\text{s}$     | 5 kA                                     |
| Maximum discharge current $I_{max}$ (8/20) $\mu\text{s}$ | 10 kA                                    |
| Combination wave $U_{OC}$                                | 6 kV                                     |
| Voltage protection level $U_p$ (L-N)                     | $\leq 1.25 \text{ kV}$ (at $U_{OC}$ )    |
|  | $\leq 1.4 \text{ kV}$ (at $I_n$ )        |
| Voltage protection level $U_p$ (L-PE)                    | $\leq 1.4 \text{ kV}$                    |
| Voltage protection level $U_p$ (N-PE)                    | $\leq 1.4 \text{ kV}$                    |
| TOV behavior at $U_T$ (L-N)                              | 400 V AC (5 s / withstand mode)          |
|  | 457 V AC (120 min / safe failure mode)   |
| TOV behavior at $U_T$ (L-PE)                             | 457 V AC (5 s / withstand mode)          |
|  | 457 V AC (120 min / withstand mode)      |
|  | 1464 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 $I_{SCCR}$                  | 10 kA AC                                 |
| 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)        | $\leq 1.15 \text{ kV}$ (at 2 kA)                                    |
|   | $\leq 1.25 \text{ kV}$ (at 3 kA)                                    |
|   | $\leq 1.1 \text{ kV}$ (at $U_{OC} = 4 \text{ kV}$ )                 |
| Residual voltage $U_{res}$ (L-PE)       | $\leq 1.1 \text{ kV}$ (at 2 kA)                                     |
|   | $\leq 1.1 \text{ kV}$ (at 3 kA)                                     |
|   | $\leq 1.2 \text{ kV}$ (at $U_{OC} = 4 \text{ kV}$ )                 |
| Residual voltage $U_{res}$ (N-PE)       | $\leq 1.1 \text{ kV}$ (at 2 kA)                                     |
|   | $\leq 1.1 \text{ kV}$ (at 3 kA)                                     |
|   | $\leq 1.2 \text{ kV}$ (at $U_{OC} = 4 \text{ kV}$ )                 |

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|   |                |
|---|----------------|
| Maximum continuous voltage $U_C$                                | 275 V AC       |
|   | 240 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                                | $\leq$ 6000 m (amsl)                                   |
| 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 | 264 V AC      |
|   | 240 V DC      |
| Nominal discharge current $I_n$           | 5 kA          |
| Mode of protection                        | L-N           |
|   | L-G           |
|   | N-G           |
|   | (DC+) - (DC-) |
|   | (DC+) - G     |
|   | (DC-) - G     |
| Nominal voltage                           | 240 V DC      |
| Power distribution system                 | Single phase  |
|   | DC            |
| Nominal frequency                         | 50/60 Hz      |
| Measured limiting voltage MLV (L-N)       | 1150 V        |
| Measured limiting voltage MLV (L-G)       | 1180 V        |
| Measured limiting voltage MLV (N-G)       | 1180 V        |
| SPD Type                                  | 4CA           |

## Standards and regulations

|                          |              |
|--------------------------|--------------|
| Standards/specifications | IEC 61643-11 |
| Note                     | 2011         |

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EN 61643-11

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

## Mounting

|               |                 |
|---------------|-----------------|
| Mounting type | on base element |
|---------------|-----------------|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27130890 |
| ECLASS-13.0 | 27171292 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002496 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121600 |
|-------------|----------|

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## Environmental product compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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