

PLT-SEC-T3-230-FM-UT - Type 3 surge protection device



2907919

<https://www.phoenixcontact.com/us/products/2907919>

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Type 2/3 surge protection, consisting of protective plug and base element with screw connection. For single-phase power supply network with integrated status indicator and remote signaling. Nominal voltage: 230 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 | 2907919 |
| Packing unit | 5 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL19 |
| Product key | CL14A2 |
| GTIN | 4055626257457 |
| Weight per piece (including packing) | 96.62 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 | 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 | 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 ² ... 2.5 mm ² |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| 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 | 240 V AC (TN-S) |
| | 240 V AC (TT) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C | 264 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 | $\leq 26.4 \text{ mVA}$ (at U_{REF}) |
| | $\leq 26.4 \text{ mVA}$ (at U_C) |
| Reference test voltage U_{REF} | 264 V AC |
| Nominal discharge current I_n (8/20) μs | 5 kA |
| Maximum discharge current I_{max} (8/20) μs | 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) |
| 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) | ≤ 1.15 kV (at 2 kA) |
| | ≤ 1.25 kV (at 3 kA) |
| | ≤ 1.1 kV (at $U_{OC} = 4$ kV) |
| Residual voltage U_{res} (L-PE) | ≤ 1.1 kV (at 2 kA) |
| | ≤ 1.1 kV (at 3 kA) |
| | ≤ 1.2 kV (at $U_{OC} = 4$ kV) |
| Residual voltage U_{res} (N-PE) | ≤ 1.1 kV (at 2 kA) |
| | ≤ 1.1 kV (at 3 kA) |
| | ≤ 1.2 kV (at $U_{OC} = 4$ kV) |
| Maximum continuous operating 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) μ s (line-line) | 0.5 kA |
| Pulse discharge current I_{imp} (10/350) μ 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 | ≤ 2000 m (operating voltage remote contact ≤ 250 V) |
| | ≤ 6000 m (operating voltage remote contact ≤ 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 | 264 V AC |
| | 240 V DC |
| Nominal discharge current I_n | 5 kA |
| | L-N |

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| | |
|-------------------------------------|---------------|
| Mode of protection | L-G |
| | N-G |
| | (DC+) - (DC-) |
| | (DC+) - G |
| | (DC-) - G |
| Nominal voltage | 240 V DC |
| Rated load current I_L | 20 A |
| 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 |

UL indicator/remote signaling

| | |
|----------------------|------------------|
| Operating voltage | 250 V AC (0.5 A) |
| DC operating voltage | 24 V DC (2 A) |
| | 48 V DC (1 A) |

UL connection data

| | |
|-----------------------------|--------------------------|
| Tightening torque | 4.4 lb _f -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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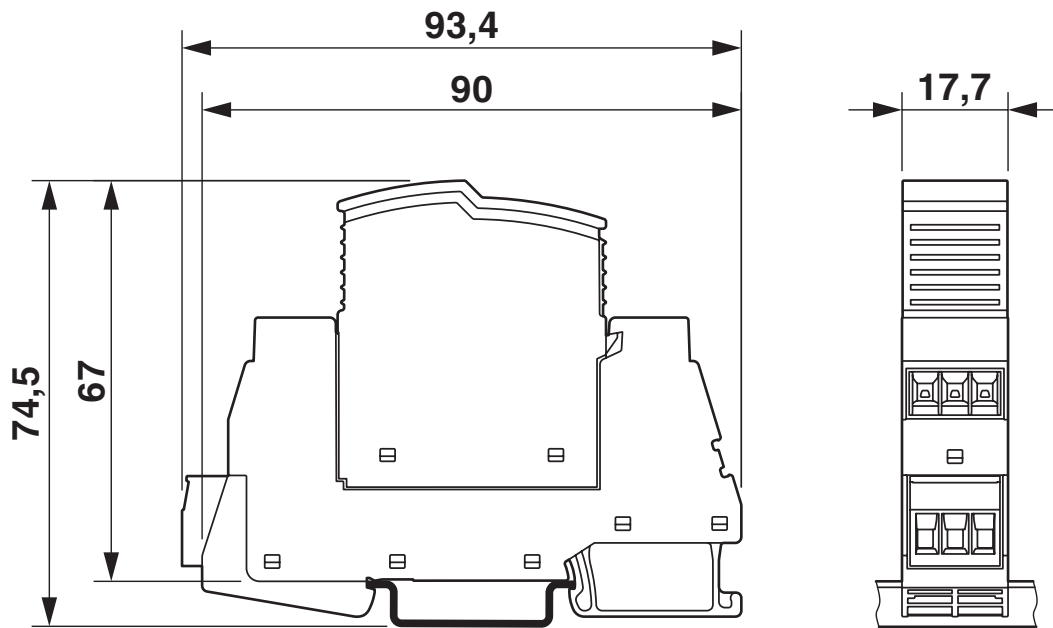


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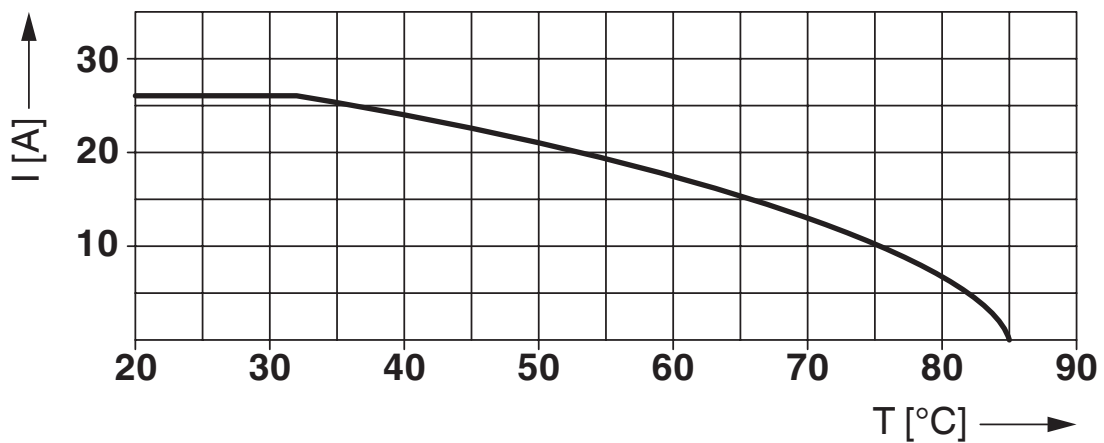
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Drawings

Dimensional drawing



Diagram



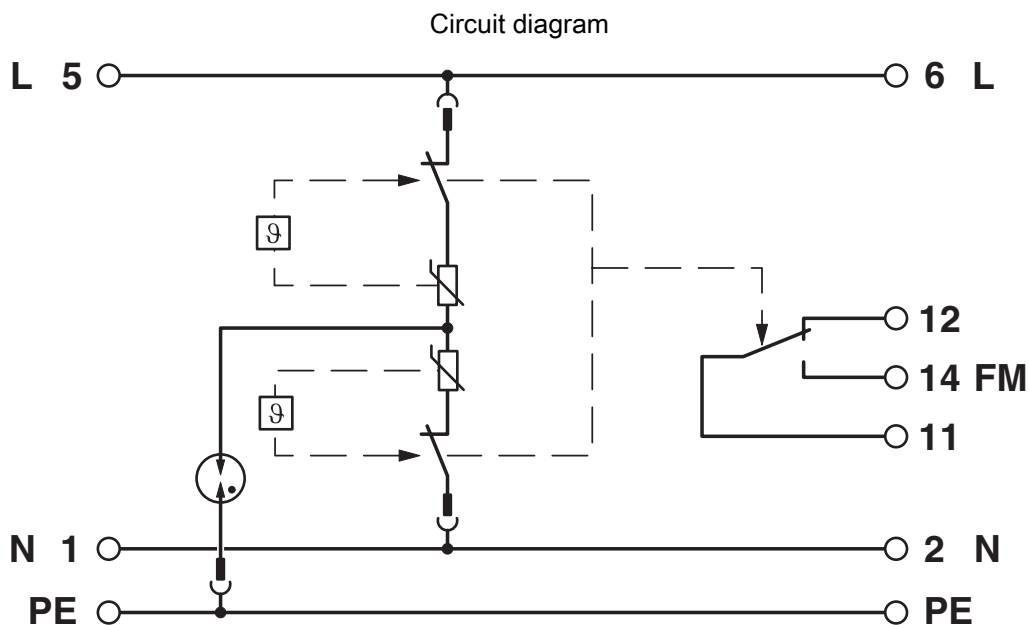
Nominal current depending on ambient temperature

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2907919>



cUL Recognized
Approval ID: FILE E 330181



UL Recognized
Approval ID: FILE E 330181



IECEE CB Scheme
Approval ID: NL-51083

CCA

Approval ID: NTR-NL 7676



KEMA-KEUR
Approval ID: 71-103027



CSA
Approval ID: 13631

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

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

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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