

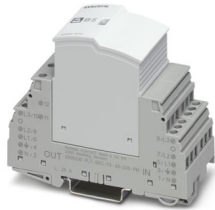
PLT-SEC-T3-3S-230-FM - Type 3 surge protection device



2905230

<https://www.phoenixcontact.com/us/products/2905230>

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Plug-in device protection, according to type 3/class III, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE), with integrated surge-proof fuse and remote indication contact.

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 visual status indicator and remote indication contact
- Optimal additional protection of the industrial power supply for a longer service life and increased availability of the system

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2905230 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL19 |
| Product key | CL14A1 |
| GTIN | 4046356939706 |
| Weight per piece (including packing) | 156.3 g |
| Weight per piece (excluding packing) | 156.3 g |
| Customs tariff number | 85363090 |
| 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 | 4 |
| Surge protection fault message | Optical, remote indicator contact |

Insulation characteristics

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

Electrical properties

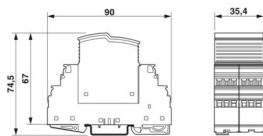
Indicator/remote signaling

| | |
|--------------------|--------------------------------|
| Connection name | Remote fault indicator contact |
| Switching function | N/C contact |
| Operating voltage | 250 V AC |
| | 125 V DC (200 mA DC) |
| Operating current | 3 A AC |
| | 1 A DC (30 V DC) |

Connection data

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.8 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 | 35.4 mm |

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| | |
|------------------|---------------------------------|
| Height | 90 mm |
| Depth | 74.5 mm (incl. DIN rail 7.5 mm) |
| Horizontal pitch | 2 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 |
| Material group | I |
| 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 | 3L-N & N-PE |
| Nominal voltage U_N | 230/400 V AC (TN-S) |
| | 230/400 V AC (TT - only in use with RCD) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C | 264 V AC |
| Rated load current I_L | 26 A (30 °C) |
| Protective conductor current I_{PE} | $\leq 5 \mu A$ |
| Standby power consumption P_C | $\leq 2 VA$ (at U_{REF}) |
| | $\leq 2.2 VA$ (at U_C) |
| Reference test voltage U_{REF} | 255 V AC |
| Nominal discharge current I_n (8/20) μs | 3 kA |
| Combination wave U_{OC} | 6 kV |
| Voltage protection level U_p (L-N) | $\leq 1.4 kV$ |
| Voltage protection level U_p (L-PE) | $\leq 1.5 kV$ |
| Voltage protection level U_p (N-PE) | $\leq 1.5 kV$ |
| TOV behavior at U_T (L-N) | 440 V AC (5 s / withstand mode) |
| | 440 V AC (120 min / withstand mode) |
| | 1455 V AC (200 ms / safe failure mode) |
| TOV behavior at U_T (L-PE) | 440 V AC (5 s / withstand mode) |
| | 440 V AC (120 min / withstand mode) |
| | 1455 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 |

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| | |
|--|-------------------|
| Maximum backup fuse for through wiring | 25 A (gG / B / C) |
| Max. backup fuse with branch wiring | not required |

Environmental and real-life conditions

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) |
| Permissible humidity (operation) | 5 % ... 95 % |
| Shock (operation) | 30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z) |
| Vibration (operation) | 5g (10 Hz ... 150 Hz / 20 cycles/axis / X, Y, Z) |

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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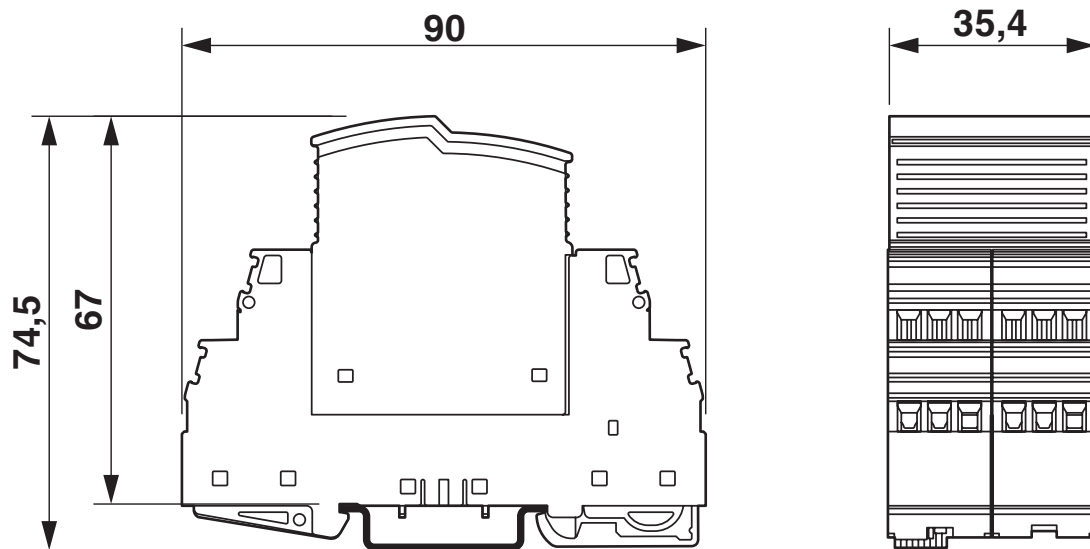


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Drawings

Dimensional drawing



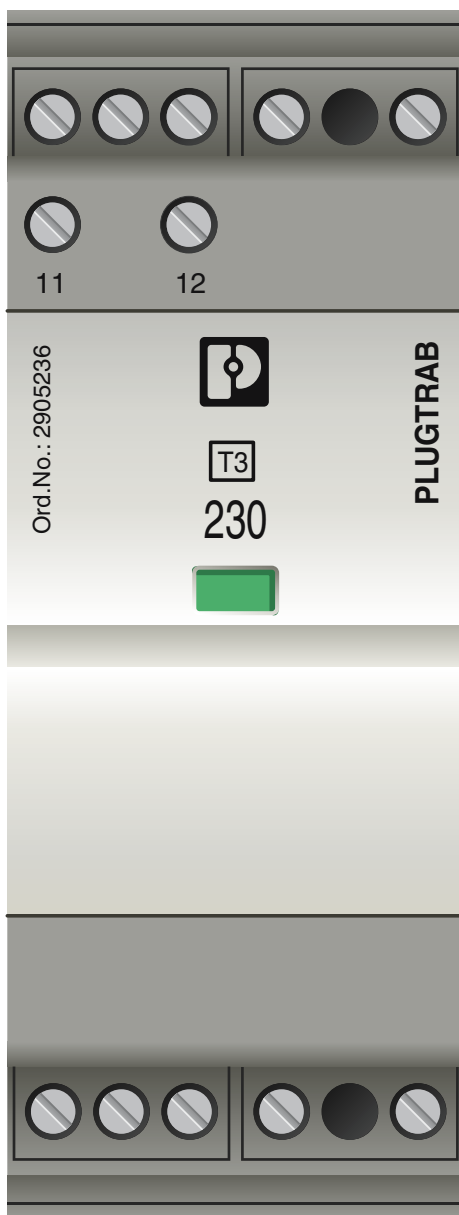
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Product drawing



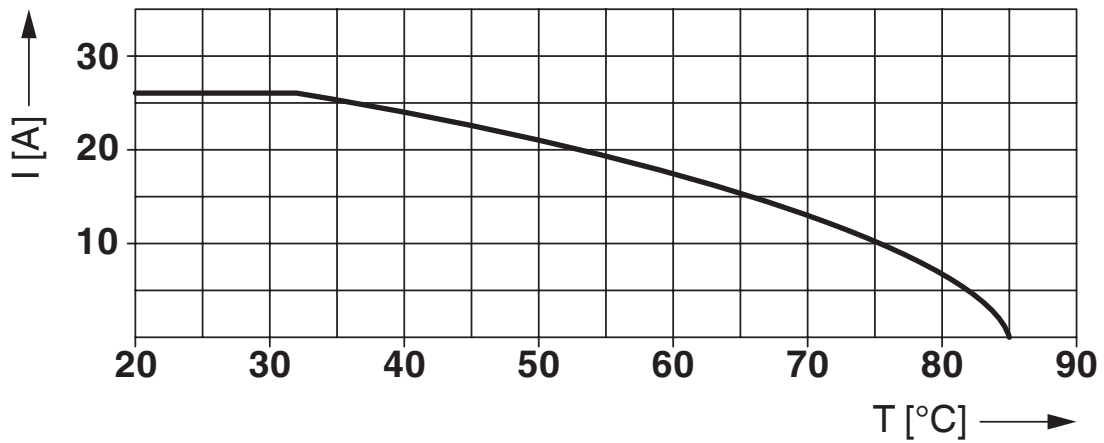
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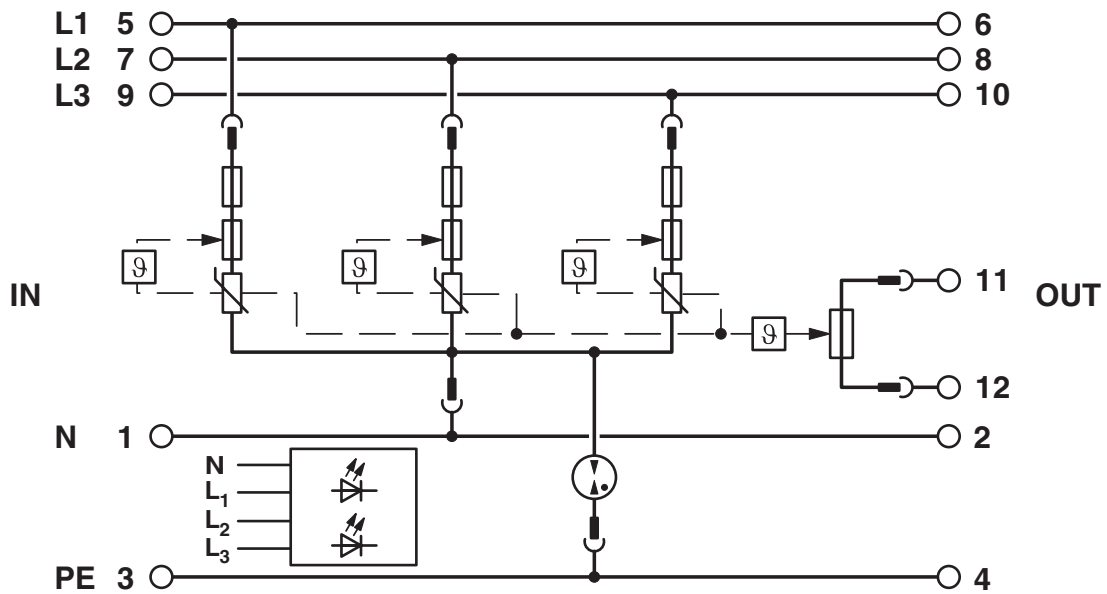
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Diagram



Nominal current depending on ambient temperature

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905230>

UAE-RoHS

Approval ID: 23-10-88891

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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 |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) |
| SCIP | 738f5b0c-f978-4c3b-9656-9dc746b512c0 |

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