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Type 3 surge protection device - PLT-SEC-T3-230-FM - 2905229

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Pluggable device protection, according to type 3/class III, for 1-phase power supply networks with separate N and PE (3-conductor system: L1, N, PE), with integrated surge-proof fuse and remote indication contact. Also suitable for DC applications.

Product Features

- Varistor-based device protection
- Can be used without separate backup fuse thanks to integrated overcurrent protection
- For 1-phase power supply units (AC/DC)
- Pluggable
- Optical status indicator via LED
- With floating remote indication contact
- Plugs can be checked with CHECKMASTER 2



Key Commercial Data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 100.0 g |
| Custom tariff number | 85363030 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|------------------|---------|
| Height | 90 mm |
| Width | 17.7 mm |
| Depth | 74.5 mm |
| Horizontal pitch | 1 Div. |

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 80 °C |

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Ambient conditions

| | |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 80 °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 | IEC 61643-11 2011 |
| | EN 61643-11 2012 |
| IEC test classification | III |
| | T3 |
| EN type | T3 |
| IEC power supply system | TT |
| | TN-S |
| Number of ports | One |
| SPD design | Combination type |
| Mode of protection | L-N |
| | L-PE |
| | N-PE |
| | (L+) - (L-) |
| | (L+/L-) - PE |
| Mounting type | DIN rail: 35 mm |
| Color | light grey RAL 7035 |
| | traffic grey A RAL 7042 |
| Housing material | PA 6.6-FR 20% GF |
| | PA 6.6-FR |
| Pollution degree | 2 |
| Flammability rating according to UL 94 | V-0 |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 2 |
| Surge protection fault message | Optical, remote indicator contact |

Protective circuit

| | |
|----------------------------------|--------------------------------------|
| Nominal voltage U_N | 230 V AC (TN-S) |
| | 230 V AC (TT - only in use with RCD) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous voltage U_C | 264 V AC |
| | 230 V DC |

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Protective circuit

| | |
|--|--|
| Rated load current I_L | 26 A (30 °C) |
| Residual current I_{PE} | $\leq 5 \mu\text{A}$ |
| Nominal discharge current I_n (8/20) μs | 3 kA |
| Standby power consumption P_C | $\leq 275 \text{ mVA}$ (at U_{REF}) |
| | $\leq 300 \text{ mVA}$ (at U_C) |
| Reference test voltage U_{REF} | 255 V AC |
| Combination wave U_{OC} | 6 kV |
| Voltage protection level U_p (L-N) | $\leq 1.35 \text{ kV}$ |
| Voltage protection level U_p (L-PE) | $\leq 1.5 \text{ kV}$ |
| Voltage protection level U_p (N-PE) | $\leq 1.5 \text{ kV}$ |
| TOV behavior at U_T (L-N) | 440 V AC (5 s / withstand mode) |
| | 440 V AC (120 min / withstand 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) | $\leq 25 \text{ ns}$ |
| 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} | 1.5 kA AC |
| | 0.25 kA DC |
| Max. backup fuse with branch wiring | Not required |
| Maximum backup fuse for through wiring | 25 A (gG / B / C) |

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 method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.8 Nm |
| Stripping length | 8 mm |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |

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Indicator/remote signaling

| | |
|------------------------------------|---------------------|
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| AWG conductor cross section | 24 ... 12 |

Connection data

| | |
|---------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| AWG conductor cross section | 24 ... 12 (IEC) |
| | 24 ... 12 (UL) |
| Screw thread | M3 |
| Tightening torque | 0.8 Nm |
| Stripping length | 8 mm |

UL specifications

| | |
|---|--------------|
| UL class | SPD type 4CA |
| Maximum continuous operating voltage MCOV | 255 V AC |
| | 230 V DC |
| Nominal voltage | 230 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) | 1270 V |
| Measured limiting voltage MLV (L-G) | 1280 V |
| Measured limiting voltage MLV (N-G) | 1208 V |
| Measured limiting voltage MLV (L+) - (L-) | 1270 V |
| Measured limiting voltage MLV (L+) - G | 1280 V |
| Measured limiting voltage MLV (L-) - G | 1280 V |
| Nominal discharge current I _n | 3 kA |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27130801 |
| eCl@ss 6.0 | 27130806 |
| eCl@ss 8.0 | 27130803 |

ETIM

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

Approvals

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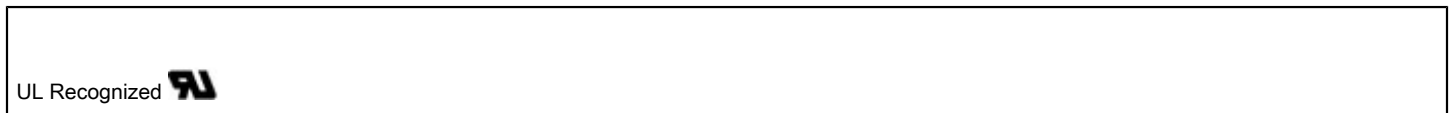
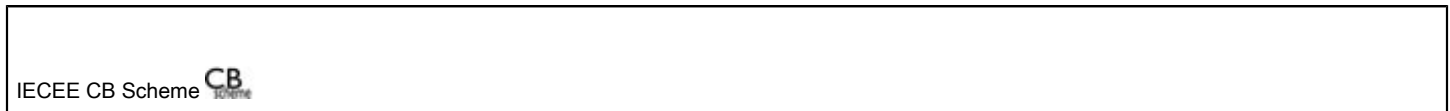
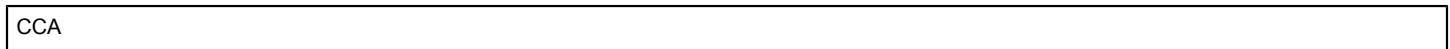
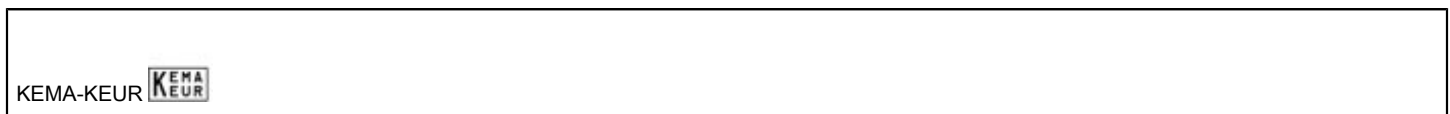
KEMA-KEUR / CCA / IECCEB Scheme / UL Recognized / cUL Recognized / EAC / GL / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approvals submitted

Approval details



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Approvals

cUL Recognized

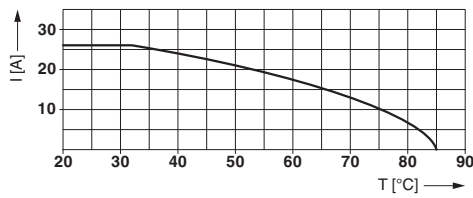
EAC

GL

cULus Recognized

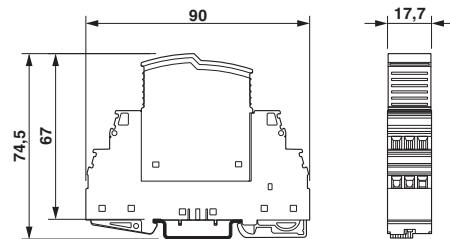
Drawings

Diagram

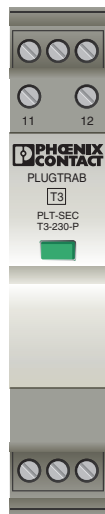


Nominal current depending on ambient temperature

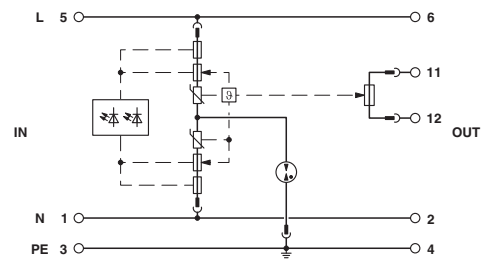
Dimensional drawing



Product drawing



Circuit diagram



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Application drawing

