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

## Why buy this product

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

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 STK |
| GTIN | 4 046356 939706 |
| GTIN | 4046356939706 |

## Technical data

### Dimensions

| | |
|---|---|
| Height | 90 mm |
| Width | 35.4 mm |
| Depth | 74.5 mm (incl. DIN rail 7.5 mm) |
| Horizontal pitch | 2 Div. |

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

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## Technical data

### Ambient conditions

| | |
|---|---|
| Altitude | ≤ 2000 m (amsl (above mean sea level)) |
| Permissible humidity (operation) | 5 % ... 95 % |
| Shock (operation) | 30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z) |
| Vibration (operation) | 5g (10 ... 150 Hz/20 cycles/axis/X, Y, Z) |

### General

| | |
|---|---|
| EN type | T3 |
| Number of ports | One |
| Mode of protection | L-N |
| | L-PE |
| | N-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 |
| Degree of pollution | 2 |
| Flammability rating according to UL 94 | V-0 |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 4 |
| Surge protection fault message | Optical, remote indicator contact |

### Protective circuit

| | |
|---|---|
| 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 voltage $U_C$ | 264 V AC |
| Rated load current $I_L$ | 26 A (30 °C) |
| Residual current $I_{PE}$ | ≤ 5 µA |
| Nominal discharge current $I_n$ (8/20) µs | 3 kA |
| Standby power consumption $P_C$ | ≤ 2 VA (at $U_{REF}$) |
| | ≤ 2.2 VA (at $U_C$) |
| Reference test voltage $U_{REF}$ | 255 V AC |
| Combination wave $U_{OC}$ | 6 kV |
| Voltage protection level $U_p$ (L-N) | ≤ 1.4 kV |
| Voltage protection level $U_p$ (L-PE) | ≤ 1.5 kV |
| Voltage protection level $U_p$ (N-PE) | ≤ 1.5 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) |

# Type 3 surge protection device - PLT-SEC-T3-3S-230-FM - 2905230

## Technical data

### Protective circuit

| | |
|---|---|
| | 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) | ≤ 25 ns |
| Response time $t_A$ (L-PE) | ≤ 100 ns |
| Response time $t_A$ (N-PE) | ≤ 100 ns |
| Short-circuit current rating $I_{SCCR}$ | 1.5 kA AC |
| Max. backup fuse with branch wiring | not required |
| Maximum backup fuse for through wiring | 25 A (gG / B / C) |

### Indicator/remote signaling

| | |
|---|---|
| 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 |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section solid | 0.2 mm² ... 4 mm² |
| Conductor cross section AWG | 24 ... 12 |
| Screw thread | M3 |
| Tightening torque | 0.8 Nm |
| Stripping length | 8 mm |

### Connection data

| | |
|---|---|
| Connection method | Screw connection |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section solid | 0.2 mm² ... 4 mm² |
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| Screw thread | M3 |
| Tightening torque | 0.8 Nm |
| Stripping length | 8 mm |

### Standards and Regulations

| | |
|---|---|
| Standards/specifications | IEC 61643-11 2011 |
| | EN 61643-11 2012 |

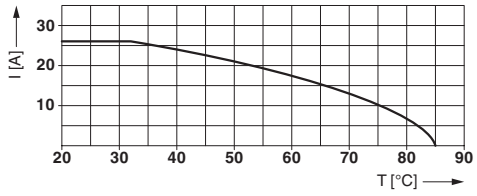
### Environmental Product Compliance

| | |
|---|---|
| REACh SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration” |

## Drawings

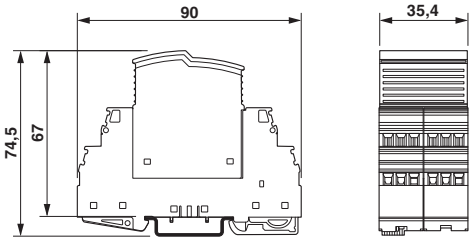
# Type 3 surge protection device - PLT-SEC-T3-3S-230-FM - 2905230

Diagram

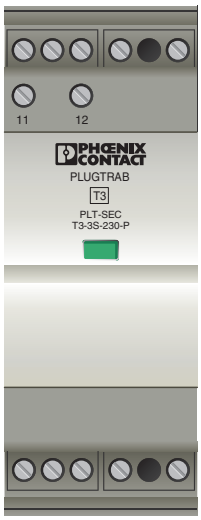



Nominal current depending on ambient temperature

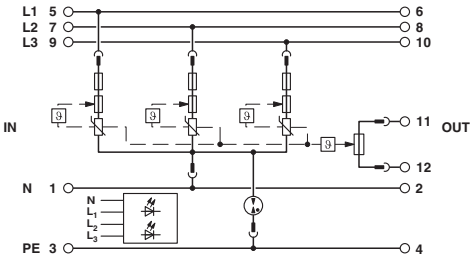
Dimensional drawing




Product drawing




Circuit diagram




## Approvals

### Approvals

Approvals

EAC

Ex Approvals

### Approval details

| | | |
|---|---|---|
| EAC | EAC | RU C-DE.A*30.B01561 |

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