

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




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.

Your advantages

- 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 |
| GTIN |  4 046356 939881 |
| GTIN | 4046356939881 |
| Weight per Piece (excluding packing) | 73.330 g |
| Custom tariff number | 85363030 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|------------------|---------------------------------|
| Height | 90 mm |
| Width | 17.7 mm |
| Depth | 74.5 mm (incl. DIN rail 7.5 mm) |
| Horizontal pitch | 1 Div. |

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

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

Technical data

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 80 °C |
| 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-sine / 11 ms / 3x ±X, ±Y, ±Z) |
| Vibration (operation) | 5g (10 ... 150 Hz/20 cycles/axis/X, Y, Z) |

General

| | |
|--|---|
| EN type | T3 |
| IEC power supply system | TT |
| | TN-S |
| Number of ports | One |
| 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 |
| Degree of pollution | 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 |
| 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 | ≤ 275 mVA (at U_{REF}) |
| | ≤ 300 mVA (at U_C) |
| Reference test voltage U_{REF} | 255 V AC |
| Combination wave U_{OC} | 6 kV |

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

Technical data

Protective circuit

| | |
|---|--|
| Voltage protection level U_p (L-N) | ≤ 1.35 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) |
| | 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 |
| | 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

| | |
|----------------------------------|---|
| 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 mm ² ... 2.5 mm ² |
| Conductor cross section solid | 0.2 mm ² ... 4 mm ² |
| 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 mm ² ... 2.5 mm ² |
| Conductor cross section solid | 0.2 mm ² ... 4 mm ² |
| Conductor cross section AWG | 24 ... 12 |
| Screw thread | M3 |
| Tightening torque | 0.8 Nm |
| Stripping length | 8 mm |

UL specifications

| | |
|----------|-----|
| SPD Type | 4CA |
|----------|-----|

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

Technical data

UL specifications

| | |
|---|--------------|
| Maximum continuous operating voltage MCOV | 255 V AC |
| | 230 V DC |
| Nominal voltage | 230 V DC |
| Rated load current I_L | 25 A |
| Mode of protection | L-N |
| | L-G |
| | N-G |
| | (L+) - (L-) |
| | (L+) - G |
| | (L-) - G |
| Power distribution system | Single phase |
| Nominal frequency | 50/60 Hz |
| Measured limiting voltage MLV (L-N) | 1290 V |
| Measured limiting voltage MLV (L-G) | 1310 V |
| Measured limiting voltage MLV (N-G) | 1310 V |
| Measured limiting voltage MLV (L+) - (L-) | 1290 V |
| Measured limiting voltage MLV (L+) - G | 1310 V |
| Measured limiting voltage MLV (L-) - G | 1310 V |
| Nominal discharge current I_n | 3 kA |

UL indicator/remote signaling

| | |
|-----------------------------|---|
| Tightening torque | 5 lb _f -in. ... 7 lb _f -in. |
| Conductor cross section AWG | 14 ... 12 |

UL connection data

| | |
|-----------------------------|---|
| Conductor cross section AWG | 14 ... 12 |
| Tightening torque | 5 lb _f -in. ... 7 lb _f -in. |

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" |