# FLT-SEC-H-T1-3C-440/25-FM - Type 1+2 combined lightning current and surge arrester

2907260

https://www.phoenixcontact.com/us/products/2907260

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Plug-in lightning current arrester, in accordance with Type 1/Class I, with integrated surge-proof fuse, for 3-phase power supply networks with combined PE and N installed in one conductor (L1, L2, L3, PEN).

## 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
- Optimum protective effect in the event of high-energy lightning currents, thanks to spark gap technology with low residual voltage characteristic
- Integrated lightning-current-proof backup fuse for a low overall voltage protection level and space savings of up to 80% compared to an external backup fuse

## Commercial data

| | |
|---|---|
| Item number | 2907260 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | CL1163 |
| GTIN | 4055626176437 |
| Weight per piece (including packing) | 1,767 g |
| Weight per piece (excluding packing) | 1,755 g |
| Country of origin | TR |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Combination type |
| Product family | SEC Family |
| IEC test classification | I / II |
| | T1 / T2 |
| EN type | T1 / T2 |
| IEC power supply system | TN-C |
| | IT |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 3 |
| Surge protection fault message | Optical, remote indicator contact |
| Number of ports | One |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Pollution degree | 2 |

### Electrical properties

| | |
|---|---|
| Nominal frequency $f_N$ | 50 Hz (60 Hz) |

Indicator/remote signaling

| | |
|---|---|
| Connection name | Remote fault indicator contact |
| Switching function | Changeover contact |
| Operating voltage | 12 V AC ... 250 V AC |
| | 125 V DC (200 mA DC) |
| Operating current | 10 mA AC ... 1 A AC |
| | 1 A DC (30 V DC) |

### Connection data

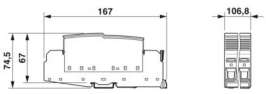
| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M5 |
| Tightening torque | 4.5 Nm |
| Stripping length | 18 mm |
| Conductor cross-section flexible | 2.5 mm² ... 35 mm² |
| Conductor cross-section rigid | 2.5 mm² ... 35 mm² |
| Conductor cross-section AWG | 13 ... 2 |
| Connection method | Fork-type cable lug |
| Conductor cross-section flexible | 1.5 mm² ... 16 mm² |

Remote fault indicator contact

| | |
|---|---|
| Connection method | Plug-in/screw connection via COMBICON |

| | |
|---|---|
| Screw thread | M2 |
| Tightening torque | 0.25 Nm |
| Stripping length | 7 mm |
| Conductor cross-section flexible | 0.14 mm² ... 1.5 mm² |
| Conductor cross-section rigid | 0.14 mm² ... 1.5 mm² |
| Conductor cross-section AWG | 28 ... 16 |

## Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 106.8 mm |
| Height | 167 mm |
| Depth | 74.5 mm |
| Horizontal pitch | 6 HP |

## 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 |
| | PBT-FR |
| Material group | I |
| Housing material | PA 6.6-FR 20 % GF |
| | PBT-FR |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Open side panel | No |

## Protective circuit

| | |
|---|---|
| Mode of protection | L-PEN |
| | L-PE |
| Direction of action | 3L-N/PE |
| Nominal voltage $U_N$ | 400/690 V AC (TN-C) |
| | 400 V AC (IT) |
| Nominal frequency $f_N$ | 50 Hz (60 Hz) |
| Maximum continuous operating voltage $U_C$ | 440 V AC |
| Protective conductor current $I_{PE}$ | ≤ 5 µA |
| Nominal discharge current $I_n$ (8/20) µs | 25 kA |

| | |
|---|---|
| Maximum discharge current $I_{max}$ (8/20) µs | 50 kA |
| Impulse discharge current (10/350) µs, charge | 12.5 As |
| Impulse discharge current (10/350) µs, specific energy | 160 kJ/Ω |
| Impulse discharge current (10/350) µs, peak value $I_{imp}$ | 25 kA |
| Follow current interrupt rating $I_{fi}$ | 50 kA |
| Short-circuit current rating $I_{SCCR}$ | 50 kA |
| Voltage protection level $U_p$ | ≤ 2.5 kV |
| Residual voltage $U_{res}$ | ≤ 2.1 kV (at $I_n$) |
| | ≤ 2.8 kV (at 50 kA) |
| | ≤ 1.7 kV (at 12.5 kA) |
| | ≤ 1.5 kV (at 5 kA) |
| | ≤ 1.35 kV (at 2.5 kA) |
| Front-of-wave sparkover voltage at 6 kV (1.2/50) µs | ≤ 2.5 kV |
| TOV behavior at $U_T$ | 580 V AC (5 s / withstand mode) |
| | 760 V AC (120 min / withstand mode) |
| | 1640 V AC (200 ms / safe failure mode) |
| Response time $t_A$ | ≤ 100 ns |

## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 (only when all terminal points are used) |
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | ≤ 2000 m (amsl) |
| Permissible humidity (operation) | 5 % ... 95 % |

## Standards and regulations

| | |
|---|---|
| Standards/specifications | IEC 61643-11 |
| Note | 2011 |

### EN 61643-11

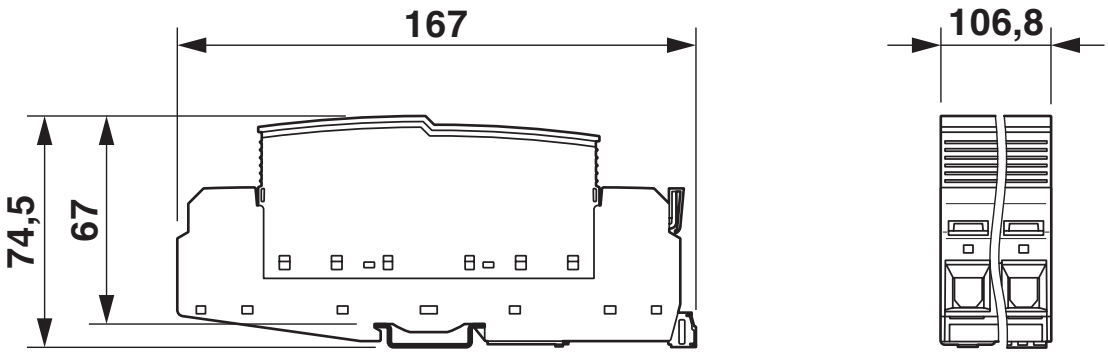
| | |
|---|---|
| Standards/specifications | EN 61643-11 |
| Note | 2012 |

## Mounting

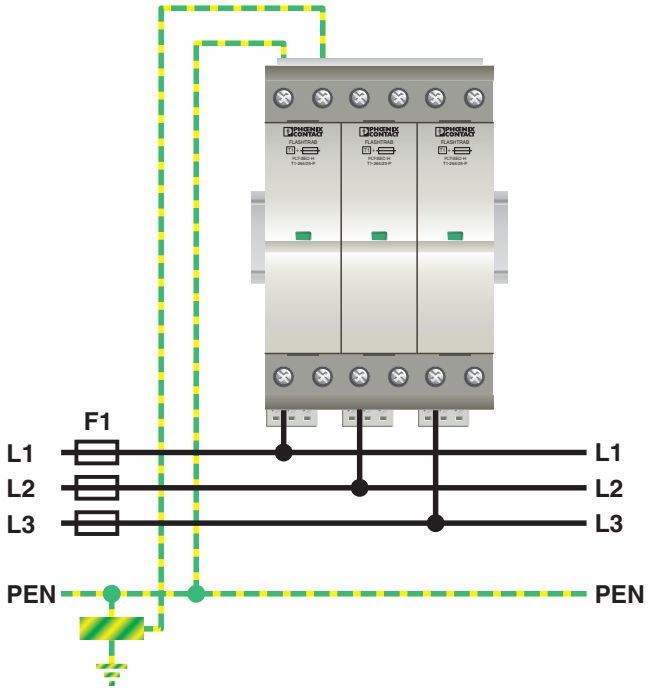
| | |
|---|---|
| Mounting type | DIN rail: 35 mm |

## Drawings

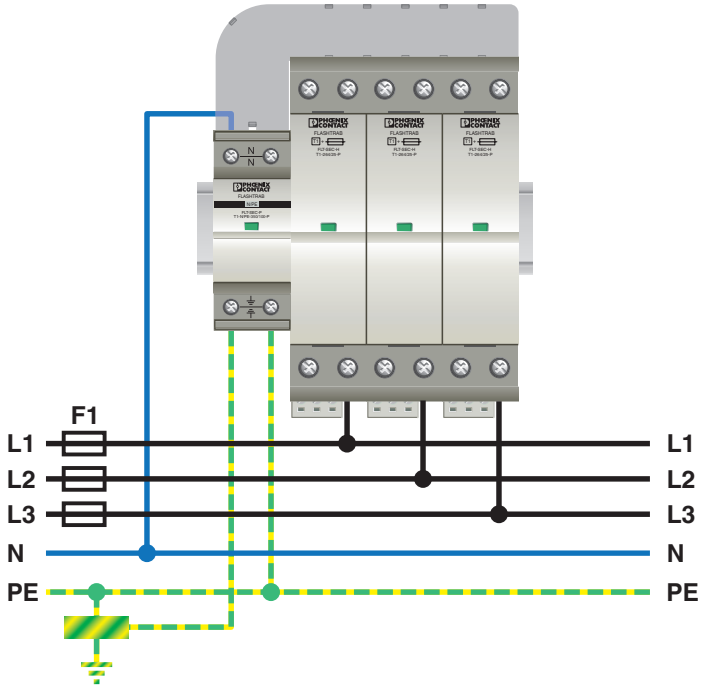
Dimensional drawing




Application drawing

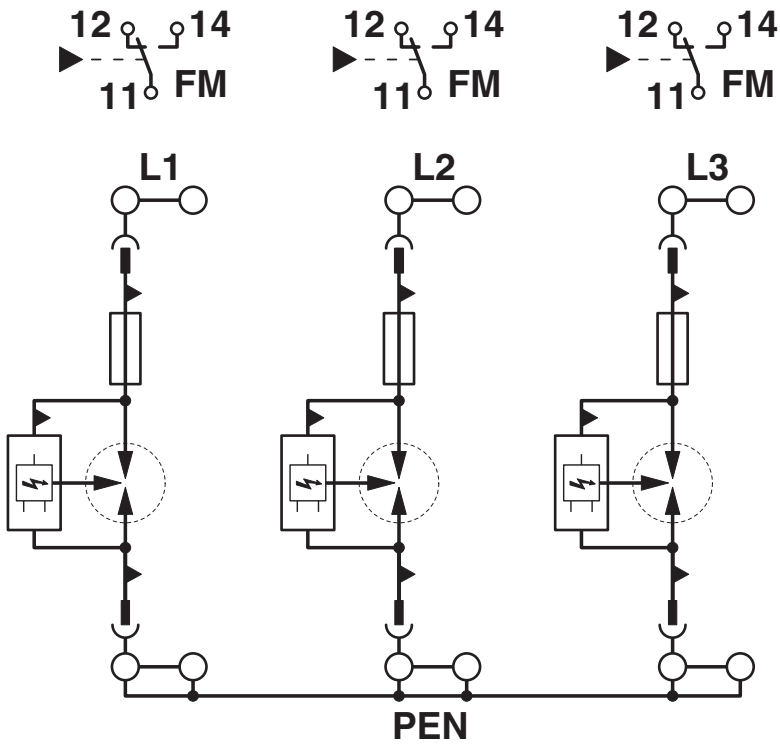


Application drawing




Structure of a 3+1 circuit for TN-S-/TT systems with an N/PE spark gap and wiring bridge.

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2907260

**IECEE CB Scheme**
Approval ID: NL-41433

**CCA**
Approval ID: NTR-NL 7490

**KEMA-KEUR**
Approval ID: 2188437.01

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27171201 |
| ECLASS-15.0 | 27171201 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000381 |

### UNSPSC

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

## 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.) | N,N-dimethylacetamide(CAS: 127-19-5) |
| SCIP | f926deff-9d51-4c74-8d1d-599be016c1b4 |

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