

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



2907259

<https://www.phoenixcontact.com/gb/products/2907259>

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Plug-in lightning current arrester, in accordance with Type 1/Class I, with integrated surge-proof fuse, for 1-phase power supply networks with combined PE and N installed in one conductor (L1, 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 | 2907259 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CL1163 |
| Product key | CL1163 |
| GTIN | 4055626176000 |
| Weight per piece (including packing) | 649.2 g |
| Weight per piece (excluding packing) | 660 g |
| Customs tariff number | 85363030 |
| Country of origin | TR |

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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 IT |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 1 |
| 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 mm ² ... 35 mm ² |
| Conductor cross-section rigid | 2.5 mm ² ... 35 mm ² |
| Conductor cross-section AWG | 13 ... 2 |
| Connection method | Fork-type cable lug |
| Conductor cross-section flexible | 1.5 mm ² ... 16 mm ² |

Remote fault indicator contact

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

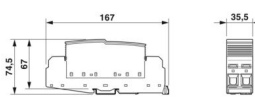
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| | |
|----------------------------------|--|
| Screw thread | M2 |
| Tightening torque | 0.25 Nm |
| Stripping length | 7 mm |
| Conductor cross-section flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross-section rigid | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 28 ... 16 |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 35.5 mm |
| Height | 167 mm |
| Depth | 74.5 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 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-N |
| | L-PE |
| | L-PEN |
| | N-PE (4+0) |
| Direction of action | 1L-N/PE |
| Nominal voltage U_N | 400 V AC (TN) |
| | 400 V AC (IT) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C | 440 V AC |

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| | |
|---|--|
| Protective conductor current I_{PE} | $\leq 5 \mu\text{A}$ |
| 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 | $\leq 2.5 \text{ kV}$ |
| Residual voltage U_{res} | $\leq 2.1 \text{ kV}$ (at I_n) |
| | $\leq 2.8 \text{ kV}$ (at 50 kA) |
| | $\leq 1.7 \text{ kV}$ (at 12.5 kA) |
| | $\leq 1.5 \text{ kV}$ (at 5 kA) |
| | $\leq 1.35 \text{ kV}$ (at 2.5 kA) |
| Front-of-wave sparkover voltage at 6 kV (1.2/50) μs | $\leq 2.5 \text{ kV}$ |
| 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 | $\leq 100 \text{ ns}$ |

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 | $\leq 2000 \text{ m}$ (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 |
|---------------|-----------------|

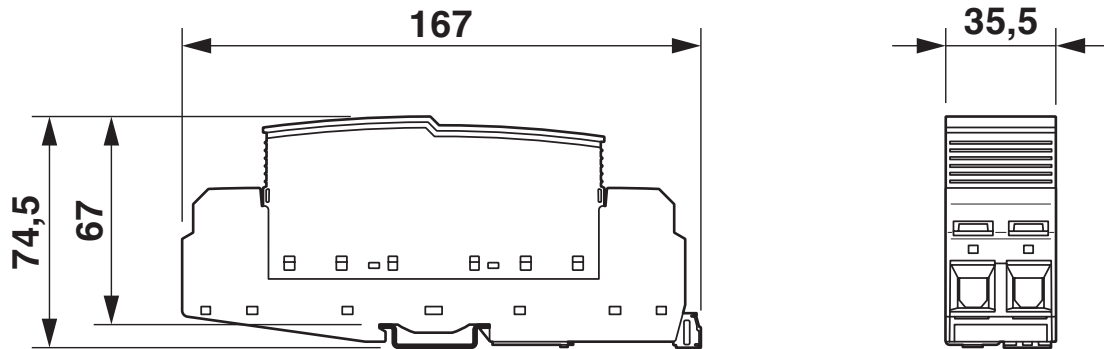
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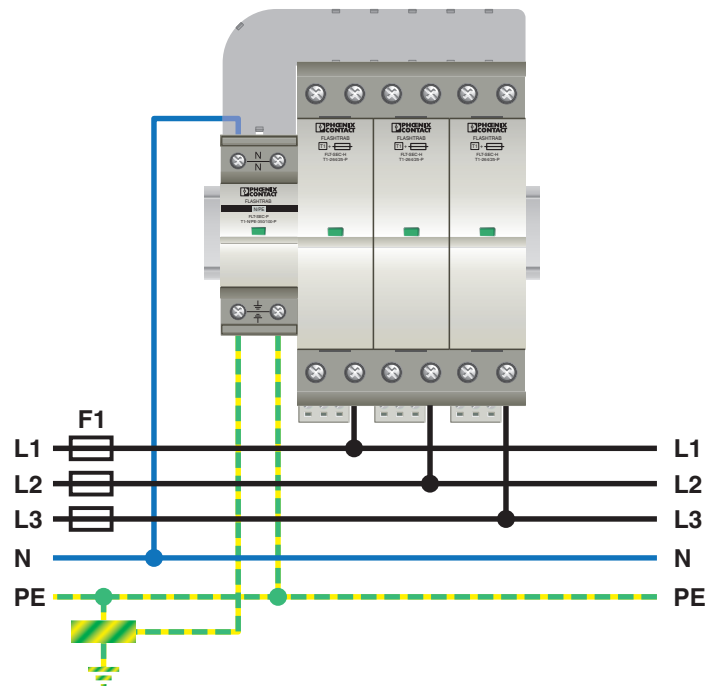
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Drawings

Dimensional drawing



Application drawing



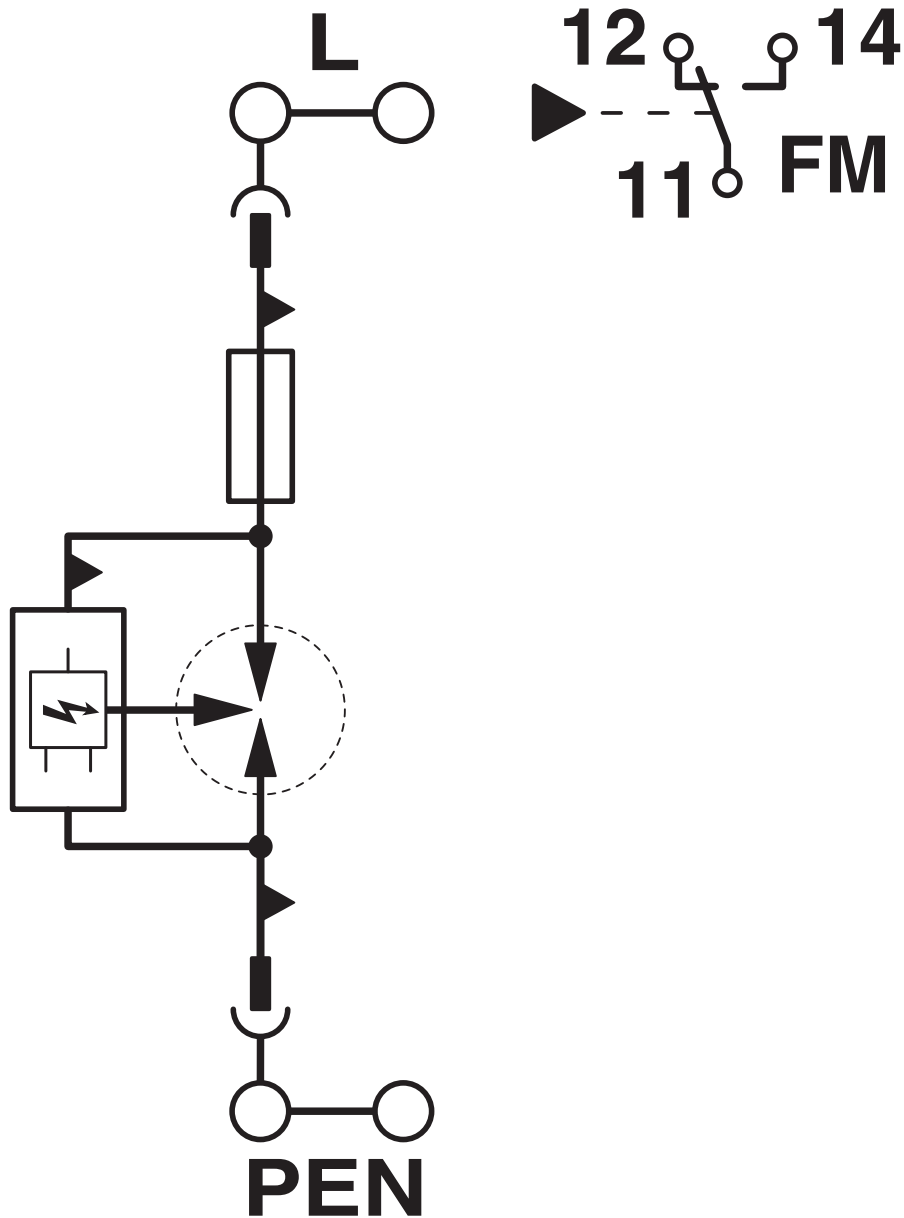
Structure of a 3+1 circuit for TN-S/-TT systems with an N/PE spark gap and wiring bridge.

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Circuit diagram



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Approvals

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IECEE CB Scheme

Approval ID: NL-41433

CCA

Approval ID: NTR-NL 7490



KEMA-KEUR

Approval ID: 2188437.01

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Classifications

ECLASS

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

ETIM

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

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

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) |
| | Lead(CAS: 7439-92-1) |
| SCIP | fb959e75-1acb-4ac2-9c1b-2bffe9efcb66 |

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