

FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

<https://www.phoenixcontact.com/us/products/2905871>

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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 | 2905871 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | CL1162 |
| Catalog page | Page 34 (C-4-2019) |
| GTIN | 4055626003825 |
| Weight per piece (including packing) | 1,792 g |
| Weight per piece (excluding packing) | 1,792 g |
| Country of origin | DE |

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Technical data

Notes

General

| | |
|------|---------------------------------------|
| Note | Max. single impulse: 100 kA (8/20 µs) |
| | SPD according to AS/NZS 1768 Cat. C3 |

Product properties

| | |
|--|---|
| IEC test classification | I / II |
| | I |
| | T1 / T2 |
| | T1 |
| EN type | T1 / T2 |
| | T1 |
| IEC power supply system | TN-C |
| | TT |
| Type | DIN rail module, two-section, divisible |
| Distance between live and grounded parts | 1 mm |
| Product type | Combination type |
| Product family | SEC Family |
| Number of positions | 3 |
| Surge protection fault message | Optical, remote indicator contact |

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 |

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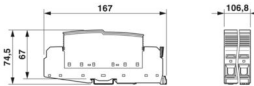
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| | |
|----------------------------------|---------------------|
| Stripping length | 18 mm |
| Conductor cross section flexible | 2.5 mm² ... 35 mm² |
| Conductor cross section rigid | 2.5 mm² ... 35 mm² |
| Conductor cross section AWG | 13 ... 2 |
| 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 (incl. DIN rail 7.5 mm) |
| Horizontal pitch | 6 Div. |

Material specifications

| | |
|--|-----------------------------|
| Color (Male connector) | light grey (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 |
|--------------------|-------|

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| | |
|--|-------------------------------------|
| Direction of action | 3L-N/PE |
| Nominal voltage U_N | 240/415 V AC (TN-C) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous voltage U_C | 264 V AC |
| Nominal discharge current I_n (8/20) μ s | 25 kA |
| Maximum discharge current I_{max} (8/20) μ s | 50 kA |
| Impulse discharge current (10/350) μ s, charge | 12.5 As |
| Impulse discharge current (10/350) μ s, specific energy | 160 kJ/ Ω |
| Impulse discharge current (10/350) μ s, peak value I_{imp} | 25 kA |
| Total discharge current I_{total} (10/350) μ s | 75 kA |
| Follow current interrupt rating I_{fi} | 50 kA |
| Short-circuit current rating I_{SCCR} | 50 kA |
| Voltage protection level U_p | ≤ 1.5 kV |
| Residual voltage U_{res} | ≤ 1.5 kV (at I_n) |
| | ≤ 2.5 kV (at 50 kA) |
| | ≤ 1.2 kV (at 12.5 kA) |
| | ≤ 1 kV (at 5 kA) |
| | ≤ 0.9 kV (at 2.5 kA) |
| Front of wave sparkover voltage at 6 kV (1.2/50) μ s | ≤ 1.5 kV |
| TOV behavior at U_T | 415 V AC (5 s / withstand mode) |
| | 460 V AC (120 min / withstand mode) |
| Response time t_A | ≤ 100 ns |

Additional technical data

| | |
|--|----------|
| Maximum continuous voltage U_C | 275 V AC |
| Short-circuit current rating I_{SCCR} | 100 kA |
| Follow current interrupt rating I_{fi} | 100 kA |

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 | ≤ 4000 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 |

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Mounting

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

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27130802 |
| ECLASS-13.0 | 27171201 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC000381 |
|----------|----------|

UNSPSC

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

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Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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