

Lightning current arrester type 1 - FLT-SEC-P-T1-2S-350/25-FM - 2905418

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Plug-in lightning current arrester, in accordance with Type 1/Class I, for 2-phase power supply networks, with separate N and PE (L1, L2, PE, N).

Why buy this product

- Spark gap has no line follow current
- Free of leakage current, suitable for use in the pre-meter area
- High continuous voltage of 350 V AC for 230/400 V AC networks with high voltage fluctuations
- Pluggable
- Low voltage protection level of 1.5 kV
- Optical, mechanical status indicator
- With floating remote indication contact
- Plugs can be checked with CHECKMASTER 2



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 STK |
| GTIN |  4 046356 950084 |
| GTIN | 4046356950084 |
| Weight per Piece (excluding packing) | 1,313.900 g |
| Weight per piece (including packing) | 1,313.900 g |
| Custom tariff number | 85363010 |
| Country of origin | Germany |
| Note | Made to Order (non-returnable) |

Technical data

Dimensions

| | |
|--------|---------|
| Height | 95.2 mm |
|--------|---------|

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Technical data

Dimensions

| | |
|------------------|----------|
| Width | 106.8 mm |
| Depth | 74.5 mm |
| Horizontal pitch | 6 Div. |

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 (above mean sea level)) |
| Permissible humidity (operation) | 5 % ... 95 % |
| Shock (operation) | 30g (Half-sine / 11 ms /3x, #X, #Y, #Z) |
| Vibration (operation) | 5g (5 - 500 Hz/2.5 h/X, Y, Z) |

General

| | |
|--|---|
| IEC test classification | I / II |
| | T1 / T2 |
| | T1 |
| | I |
| EN type | T1 / T2 |
| | T1 |
| IEC power supply system | TN-S |
| | TT |
| 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 |
| | PBT-FR |
| Degree of pollution | 2 |
| Flammability rating according to UL 94 | V-0 |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 3 |
| Surge protection fault message | Optical, remote indicator contact |

Protective circuit

| | |
|----------------------------------|---------------------|
| Nominal voltage U_N | 240/415 V AC (TN-S) |
| | 240/415 V AC (TT) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous voltage U_C | 350 V AC |

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Technical data

Protective circuit

| | |
|--|-------------------------------------|
| Rated load current I_L | 125 A (< 55 °C) |
| Residual current I_{PE} | ≤ 0.01 mA |
| Nominal discharge current I_n (8/20) μs (L-N) | 25 kA |
| Nominal discharge current I_n (8/20) μs (L-PE) | 25 kA |
| Nominal discharge current I_n (8/20) μs (N-PE) | 100 kA |
| Maximum discharge current I_{max} (8/20) μs (L-N) | 50 kA |
| Maximum discharge current I_{max} (8/20) μs (L-PE) | 50 kA |
| Impulse discharge current (10/350) μs (L-N), charge | 12.5 As |
| Impulse discharge current (10/350) μs (L-N), specific energy | 160 kJ/Ω |
| Impulse discharge current (10/350) μs (L-N), peak current value I_{imp} | 25 kA |
| Impulse discharge current (10/350) μs (L-PE), charge | 12.5 As |
| Impulse discharge current (10/350) μs (L-PE), specific energy | 160 kJ/Ω |
| Impulse discharge current (10/350) μs (L-PE), peak current value I_{imp} | 25 kA |
| Impulse discharge current (10/350) μs (N-PE), charge | 50 As |
| Impulse discharge current (10/350) μs (N-PE), specific energy | 2500 kJ/Ω |
| Impulse discharge current (10/350) μs (N-PE), peak current value I_{imp} | 100 kA |
| Total discharge current I_{total} (10/350) μs | 75 kA |
| Follow current interrupt rating I_{fi} (L-N) | 50 kA |
| Follow current interrupt rating I_{fi} (N-PE) | 100 A |
| Short-circuit current rating I_{SCCR} | 50 kA |
| Voltage protection level U_p (L-N) | ≤ 1.5 kV |
| Voltage protection level U_p (L-PE) | ≤ 2.5 kV |
| Voltage protection level U_p (N-PE) | ≤ 1.5 kV |
| Residual voltage U_{res} (L-N) | ≤ 1.5 kV (at I_n) |
| Residual voltage U_{res} (L-PE) | ≤ 2.5 kV (at I_n) |
| Residual voltage U_{res} (N-PE) | ≤ 1.5 kV (at I_n) |
| TOV behavior at U_T (L-N) | 415 V AC (5 s / withstand mode) |
| | 457 V AC (120 min / withstand mode) |
| TOV behavior at U_T (N-PE) | 1200 V AC (200 ms / withstand mode) |
| Response time t_A | ≤ 100 ns |
| Max. backup fuse with branch wiring | 315 A (gG) |
| Max. backup fuse with V-type through wiring | 125 A (gG) |

Additional technical data

| | |
|--|-------------------|
| Follow current quenching capacity I_{fi} (L-N) | 100 kA (264 V AC) |
| Short-circuit current rating I_{SCCR} | 100 kA (264 V AC) |

Indicator/remote signaling

| | |
|--------------------|-------------|
| Switching function | PDT contact |
|--------------------|-------------|

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Technical data

Indicator/remote signaling

| | |
|----------------------------------|--|
| 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 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 mm ² ... 1.5 mm ² |
| Conductor cross section solid | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section AWG | 28 ... 16 |

Connection data

| | |
|----------------------------------|--|
| Connection method | Screw terminal blocks |
| 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 solid | 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 |

UL specifications

| | |
|---|--------------|
| SPD Type | 4CA |
| Maximum continuous operating voltage MCOV (L-L) | 528 V AC |
| Maximum continuous operating voltage MCOV (L-N) | 264 V AC |
| Maximum continuous operating voltage MCOV (L-G) | 528 V AC |
| Maximum continuous operating voltage MCOV (N-G) | 264 V AC |
| Nom. voltage | 240/415 V AC |
| Mode of protection | L-L |
| | L-N |
| | L-G |
| | N-G |
| Power distribution system | 3Y |
| Nominal frequency | 50/60 Hz |
| Measured limiting voltage MLV (L-L) | 2450 V |
| Measured limiting voltage MLV (L-N) | 1350 V |
| Measured limiting voltage MLV (L-G) | 1570 V |
| Measured limiting voltage MLV (N-G) | 1080 V |

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Technical data

UL specifications

| | |
|---------------------------------------|-------|
| Nominal discharge current I_n (L-L) | 20 kA |
| Nominal discharge current I_n (L-N) | 20 kA |
| Nominal discharge current I_n (L-G) | 20 kA |
| Nominal discharge current I_n (N-G) | 20 kA |

UL indicator/remote signaling

| | |
|-----------------------------|------------------------|
| Operating voltage | 125 V AC |
| Operating current | 1 A AC |
| Tightening torque | 4 lb _r -in. |
| Conductor cross section AWG | 30 ... 14 |

UL connection data

| | |
|-----------------------------|-------------------------|
| Conductor cross section AWG | 12 ... 2 |
| Tightening torque | 40 lb _r -in. |

Standards and Regulations

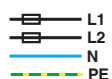
| | |
|-----------------------|-------------------|
| Standards/regulations | IEC 61643-11 2011 |
| | EN 61643-11 2012 |

Environmental Product Compliance

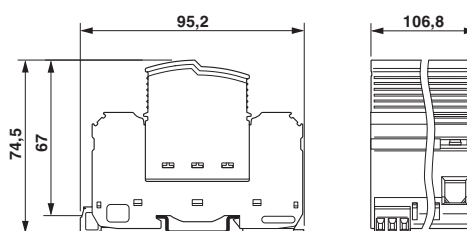
| | |
|------------|--------------------|
| REACH SVHC | UV -328 25973-55-1 |
|------------|--------------------|

Drawings

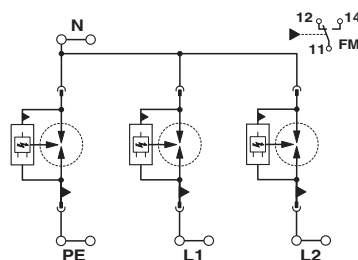
Pictogram



Dimensional drawing



Circuit diagram



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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27130801 |
| eCl@ss 6.0 | 27130808 |
| eCl@ss 8.0 | 27130802 |
| eCl@ss 9.0 | 27130802 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC000381 |
| ETIM 5.0 | EC000381 |
| ETIM 6.0 | EC000381 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121620 |
|-------------|----------|

Approvals

Approvals

Approvals

UL Recognized / KEMA-KEUR / cUL Recognized / CCA / IECEE CB Scheme / GL / EAC / cULus Recognized

Ex Approvals

Approval details

| | | | |
|---------------|---|---|---------------|
| UL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 330181 |
|---------------|---|---|---------------|

| | | | |
|-----------|---|---|-----------|
| KEMA-KEUR |  | http://www.dekra-certification.com | 71-100613 |
|-----------|---|---|-----------|

| | | | |
|----------------|---|---|---------------|
| cUL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 330181 |
|----------------|---|---|---------------|

| | |
|-----|-------------|
| CCA | NTR-NL 7349 |
|-----|-------------|

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Approvals

| | | | |
|------------------|--|---|---------------------|
| IECEE CB Scheme | | http://www.iecee.org/ | NL-34358 |
| GL | | http://exchange.dnv.com/tari/ | 13946-15 HH |
| EAC | | | RU C-DE.A*30.B01561 |
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | |

Accessories

Accessories

Device marking

Label - EML (20XE)R - 0803452



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: adhesive, lettering field size: continuous x 20 mm

Label - EML (20XE)R YE - 0803453



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: adhesive, lettering field size: continuous x 20 mm

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm

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Accessories

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm

End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

Labeled device marker

Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, Horizontal: L1, L2, L3, N, GND, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, Horizontal: Grounding symbol, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm

Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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Accessories

Terminal marking

Flat zack marker sheet - ZBFM 5/WH:UNBEDRUCKT - 0803595



Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 5 x 4.5 mm

Spare parts

Type 1 surge protection plug - FLT-SEC-P-T1-350/25-P - 2905422



Replacement plug for lightning current arresters from the FLASHTRAB SEC PLUS 350 product range, for L-N and L-PEN paths.

Type 1 surge protection plug - FLT-SEC-P-T1-N/PE-350/100-P - 2905473



Replacement plug for lightning current arresters from the FLASHTRAB SEC product range, for the N-PE path.