

Combination type 1/2 protective device - FLT 100 N/PE-1.5 - 2800303

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Lightning current arrester with encapsulated N-PE spark gap, single-channel. Housing width: 35 mm (2 pitches)

Your advantages

- With ignition electronics
- Direct parallel connection with type 2 arresters supported
- Encapsulated and triggered



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 535236 |
| GTIN | 4046356535236 |
| Weight per Piece (excluding packing) | 380.000 g |
| Custom tariff number | 85363010 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|------------------|---------------------------------|
| Height | 90 mm |
| Width | 35.6 mm |
| Depth | 71.2 mm (incl. DIN rail 7.5 mm) |
| Horizontal pitch | 2 Div. |

Ambient conditions

| | |
|----------------------|---|
| Degree of protection | IP20 (only when all terminal points are used) |
|----------------------|---|

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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) | 25g (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 |
| | T1 |
| EN type | T1 |
| IEC power supply system | TN-S |
| | TT |
| Mode of protection | N-PE |
| Mounting type | DIN rail: 35 mm |
| Color | jet black RAL 9005 |
| Housing material | PBT |
| Degree of pollution | 2 |
| Flammability rating according to UL 94 | V-0 |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 1 |
| Surge protection fault message | none |

Protective circuit

| | |
|--|---------------------------|
| Nominal voltage U_N | 240 V AC (TN - only N-PE) |
| | 240 V AC (TT - only N-PE) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous voltage U_C | 260 V AC |
| Rated load current I_L | 125 A (< 55 °C) |
| Residual current I_{PE} | ≤ 0.01 mA |
| Nominal discharge current I_n (8/20) μ s | 100 kA |
| Impulse discharge current (10/350) μ s, charge | 50 As |
| Impulse discharge current (10/350) μ s, specific energy | 2500 kJ/ Ω |
| Impulse discharge current (10/350) μ s, peak value I_{imp} | 100 kA |
| Follow current interrupt rating I_{fi} | 100 A (260 V AC) |
| Voltage protection level U_p | ≤ 1.5 kV |
| Residual voltage U_{res} | ≤ 1.5 kV (at I_n) |
| | ≤ 1 kV (at 10 kA) |

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Protective circuit

| | |
|---|-------------------------------------|
| | ≤ 0.9 kV (at 5 kA) |
| | ≤ 0.8 kV (at 3 kA) |
| Front of wave sparkover voltage at 6 kV (1.2/50) μs | ≤ 1.5 kV |
| TOV behavior at U _T | 1200 V AC (200 ms / withstand mode) |
| Response time t _A | ≤ 100 ns |

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 ... 25 mm ² |
| Conductor cross section solid | 2.5 mm ² ... 35 mm ² |
| Conductor cross section AWG | 13 ... 2 |

Standards and Regulations

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

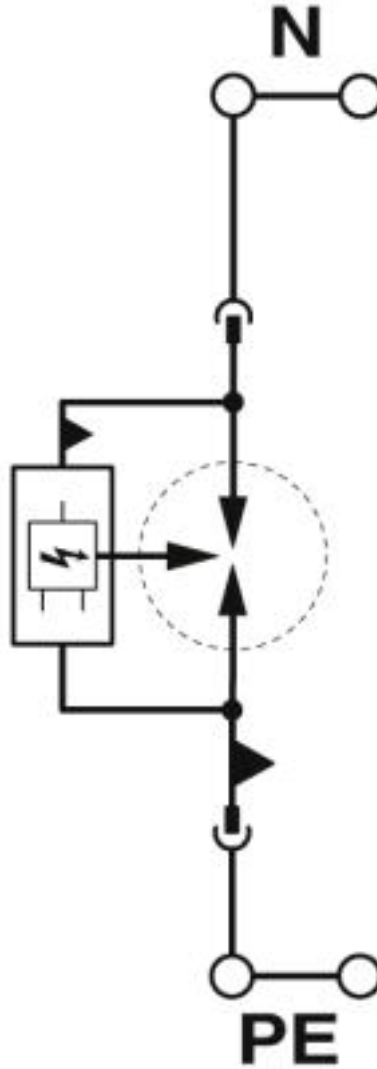
Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

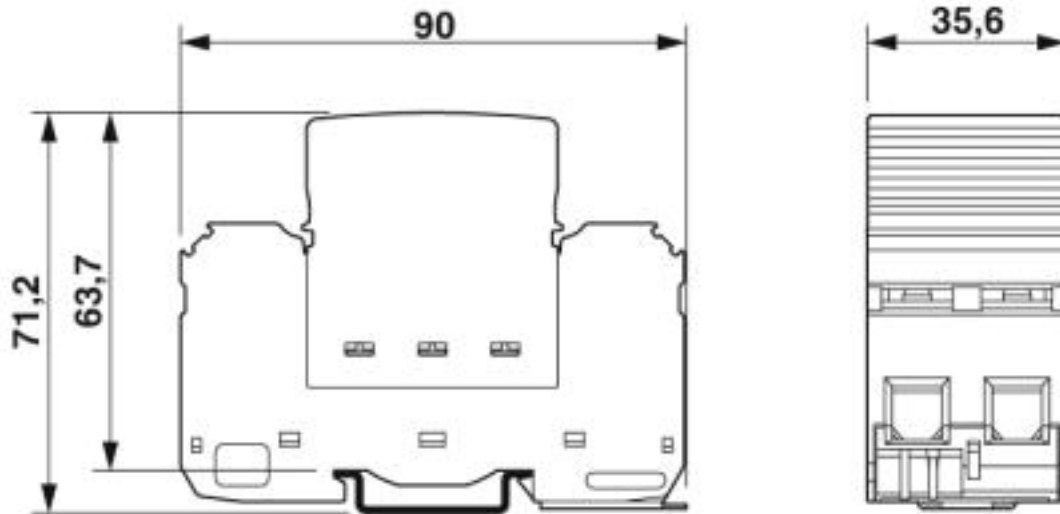
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Circuit diagram



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Dimensional drawing



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27130802 |
| eCl@ss 4.0 | 27130800 |
| eCl@ss 4.1 | 27130800 |
| eCl@ss 5.0 | 27130800 |
| eCl@ss 5.1 | 27130800 |
| eCl@ss 6.0 | 27130800 |
| eCl@ss 7.0 | 27130802 |
| eCl@ss 8.0 | 27130802 |
| eCl@ss 9.0 | 27130802 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000381 |
| ETIM 3.0 | EC000381 |
| ETIM 4.0 | EC000381 |
| ETIM 5.0 | EC000381 |
| ETIM 6.0 | EC000381 |
| ETIM 7.0 | EC000381 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30212010 |
| UNSPSC 7.0901 | 39121610 |

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Classifications

UNSPSC

| | |
|--------------|----------|
| UNSPSC 11 | 39121610 |
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2 | 39121620 |
| UNSPSC 18.0 | 39121620 |
| UNSPSC 19.0 | 39121620 |
| UNSPSC 20.0 | 39121620 |
| UNSPSC 21.0 | 39121620 |

Approvals

Approvals

Approvals

CCA / KEMA-KEUR / IECEE CB Scheme / EAC

Ex Approvals

Approval details

| | |
|-----|-------------|
| CCA | NTR-NL 7734 |
|-----|-------------|

| | | | |
|-----------|--|---|-----------|
| KEMA-KEUR | | http://www.dekra-certification.com | 71-108169 |
|-----------|--|---|-----------|

| | | | |
|-----------------|--|---|----------|
| IECEE CB Scheme | | http://www.iecee.org/ | NL-58250 |
|-----------------|--|---|----------|

| | | |
|-----|--|-------------------------|
| EAC | | RU C- DE.A*30.B01561 |
|-----|--|-------------------------|

Accessories

Accessories

Bridge

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Accessories

Wiring bridge - MPB 18/1- 8 BU - 2858470



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos., color: Blue

Device marking

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, Number of individual labels: 5

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, Number of individual labels: 5

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Accessories

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, Number of individual labels: 5

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Spare parts

Type 1 surge protection plug - FLT 100 N/PE-1.5-ST - 2800304



Type 1/Class I/B arrester (lightning current arrester) replacement plug for N-PE path.