

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

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

### Key Commercial Data

|              |                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------|
| Packing unit | 10 pc                                                                                                 |
| GTIN         | <br>4 046356 535243 |
| GTIN         | 4046356535243                                                                                         |

### Technical data

#### Dimensions

|                  |         |
|------------------|---------|
| Height           | 44.8 mm |
| Width            | 35.5 mm |
| Depth            | 56.1 mm |
| Horizontal pitch | 2 Div.  |

#### Ambient conditions

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Degree of protection                    | IP20                                    |
| 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           | on base element |

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## Technical data

### General

|                                        |                    |
|----------------------------------------|--------------------|
| Color                                  | jet black RAL 9005 |
| Housing material                       | PBT                |
| Degree of pollution                    | 2                  |
| Flammability rating according to UL 94 | V-0                |
| Type                                   | Male               |
| 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                            |
| Residual current $I_{PE}$                                        | $\leq 0.01$ mA                      |
| Nominal discharge current $I_n$ (8/20) $\mu$ s                   | 100 kA                              |
| Impulse discharge current (10/350) $\mu$ s, charge               | 50 As                               |
| Impulse discharge current (10/350) $\mu$ s, specific energy      | 2500 kJ/ $\Omega$                   |
| Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$ | 100 kA                              |
| Follow current interrupt rating $I_{fi}$                         | 100 A (260 V AC)                    |
| Voltage protection level $U_p$                                   | $\leq 1.5$ kV                       |
| Residual voltage $U_{res}$                                       | $\leq 1.5$ kV (at $I_n$ )           |
|                                                                  | $\leq 1$ kV (at 10 kA)              |
|                                                                  | $\leq 0.9$ kV (at 5 kA)             |
|                                                                  | $\leq 0.8$ kV (at 3 kA)             |
| Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s         | $\leq 1.5$ kV                       |
| TOV behavior at $U_T$                                            | 1200 V AC (200 ms / withstand mode) |
| Response time $t_A$                                              | $\leq 100$ ns                       |

### Connection data

|                   |           |
|-------------------|-----------|
| Connection method | pluggable |
|-------------------|-----------|

### Standards and Regulations

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

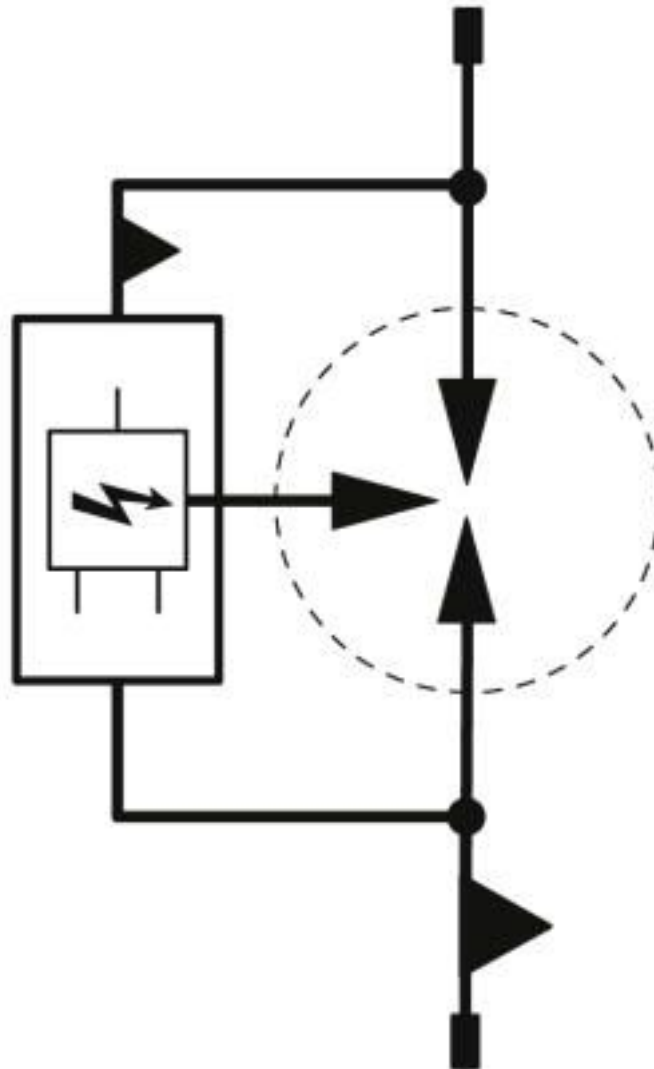
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| 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

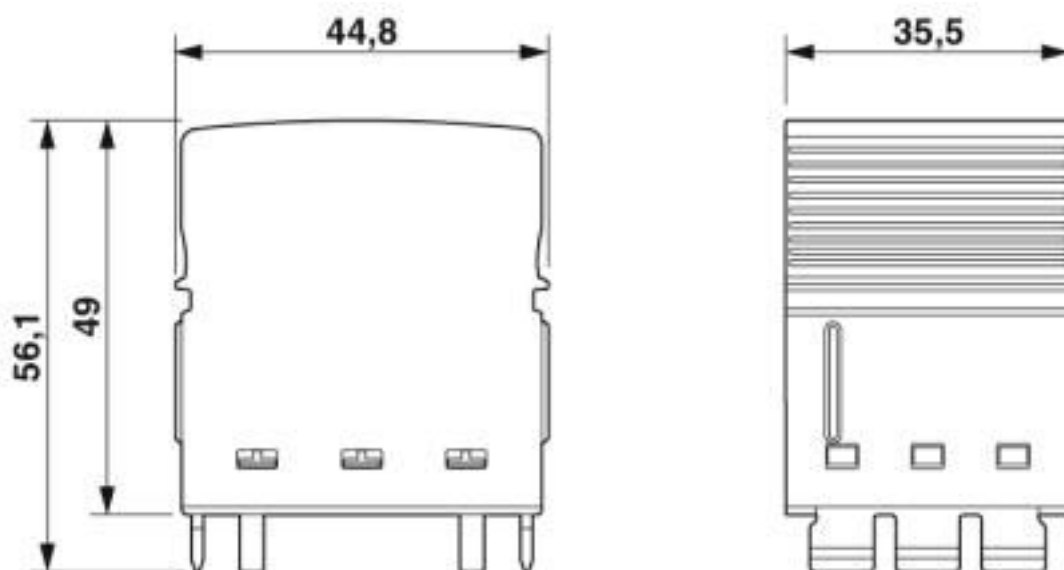
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Circuit diagram



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Dimensional drawing



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27130890 |
| 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    | 27130890 |
| eCl@ss 9.0    | 27130890 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000381 |
| ETIM 3.0 | EC000381 |
| ETIM 4.0 | EC000381 |
| ETIM 5.0 | EC002496 |
| ETIM 6.0 | EC000381 |
| ETIM 7.0 | EC000381 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30212010 |
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11     | 39121610 |
| UNSPSC 12.01  | 39121610 |
| UNSPSC 13.2   | 39121620 |

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| 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 |  | <a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a> | 71-108169 |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|

|                 |                                                                                     |                                                           |          |
|-----------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|----------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | NL-58250 |
|-----------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|----------|

|     |                                                                                     |                         |
|-----|-------------------------------------------------------------------------------------|-------------------------|
| EAC |  | RU C-<br>DE.*09.B.00169 |
|-----|-------------------------------------------------------------------------------------|-------------------------|

## Accessories

### Accessories

#### 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

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### Accessories

#### 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

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

#### 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, Number of individual labels: 120

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