

## Type 1 surge protection plug - FLT-CP-N/PE-350-ST - 2859686


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Type 1 / Class I / B arrester (lightning current arrester) replacement plug for path N-PE, can be combined with FLASHTRAB compact series of products.



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 10 pc   |
| GTIN                                 | <br>4 017918 956523 |
| GTIN                                 | 4017918956523   |
| Weight per Piece (excluding packing) | 214.260 g   |
| Custom tariff number                 | 85363030  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|                  |          |
|------------------|----------|
| Height           | 46.6 mm  |
| Width            | 35.45 mm |
| Depth            | 56.4 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

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## Technical data

### General

|  |                 |
|--|-----------------|
| IEC test classification                | I / II          |
|  | T1 / T2         |
| EN type                                | T1 / T2         |
| IEC power supply system                | TT              |
| Mode of protection                     | N-PE            |
| Mounting type                          | on base element |
| Color                                  | gray/blue       |
| 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         | optical         |

### 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 $U_C$                                 | 350 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 (350 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                       |

### UL specifications

|   |          |
|---|----------|
| SPD Type  | 4CA      |
| Maximum continuous operating voltage MCOV (N-G) | 264 V AC |
| Mode of protection                              | N-G      |
| Power distribution system                       | 1S       |
| Nominal frequency                               | 50/60 Hz |
| Measured limiting voltage MLV (N-G)             | 1080 V   |

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### UL specifications

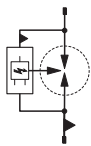
|                                       |       |
|---------------------------------------|-------|
| Nominal discharge current $I_n$ (N-G) | 20 kA |
|---------------------------------------|-------|

### Environmental Product Compliance

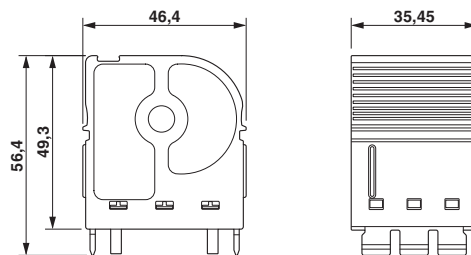
|            |   |
|------------|---|
| REACH SVHC | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 25973-55-1 |
|            | Lead 7439-92-1  |

## Drawings

Circuit diagram



Dimensional drawing



## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140201 |
| eCl@ss 4.1 | 27130801 |
| eCl@ss 5.0 | 27130801 |
| 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 | EC000941 |
| ETIM 3.0 | EC000941 |
| ETIM 4.0 | EC000381 |
| ETIM 5.0 | EC000381 |
| ETIM 6.0 | 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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## Approvals

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#### Approvals

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

#### Ex Approvals

### Approval details

|           |  |   |            |
|-----------|--|---|------------|
| KEMA-KEUR |  | <a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a> | 2161502.07 |
|-----------|--|---|------------|

|     |  |  |             |
|-----|--|--|-------------|
| CCA |  |  | NTR-NL 7225 |
|-----|--|--|-------------|

|                 |  |   |          |
|-----------------|--|---|----------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | NL-30110 |
|-----------------|--|---|----------|

|     |  |  |             |
|-----|--|--|-------------|
| CCA |  |  | NTR-NL 7224 |
|-----|--|--|-------------|

|           |  |   |            |
|-----------|--|---|------------|
| KEMA-KEUR |  | <a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a> | 2161502.08 |
|-----------|--|---|------------|

|                 |  |   |          |
|-----------------|--|---|----------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | NL-30078 |
|-----------------|--|---|----------|

|     |  |  |               |
|-----|--|--|---------------|
| EAC |  |  | EAC-Zulassung |
|-----|--|--|---------------|

|     |  |  |                         |
|-----|--|--|-------------------------|
| EAC |  |  | RU C-<br>DE.A*30.B01561 |
|-----|--|--|-------------------------|

|               |  |   |               |
|---------------|--|---|---------------|
| UL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 330181 |
|---------------|--|---|---------------|

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## Approvals

|                |  |   |               |
|----------------|--|---|---------------|
| cUL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 330181 |
|----------------|--|---|---------------|

|                  |  |  |  |
|------------------|--|--|--|
| cULus Recognized |  |  |  |
|------------------|--|--|--|

## 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

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#### 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

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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

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#### Marker pen

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### Accessories

Marker pen - B-STIFT - 1051993



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

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### 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

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