

## 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	1 pc
GTIN	 4 017918 956523
GTIN	4017918956523
Weight per Piece (excluding packing)	239.170 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 %

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## Technical data

### Ambient conditions

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 / 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

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## Technical data

### UL specifications

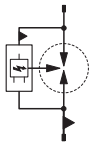
SPD Type	4CA
Maximum continuous operating voltage MCOV (N-G)	264 V AC
Mode of protection	N-G
Power distribution system	1S
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (N-G)	1080 V
Nominal discharge current $I_n$ (N-G)	20 kA

### Environmental Product Compliance

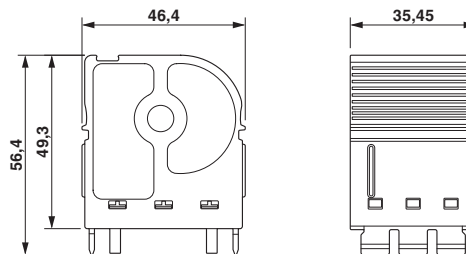
REACH SVHC	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 25973-55-1
	Lead 7439-92-1

## 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

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## Classifications

### ETIM

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

## Approvals

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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
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CCA			NTR-NL 7225
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IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	NL-30110
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CCA			NTR-NL 7224
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KEMA-KEUR		<a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a>	2161502.08
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## Approvals

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	NL-30078
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EAC			EAC-Zulassung
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EAC			RU C- DE.A*30.B01561
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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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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
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cULus Recognized			
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## Accessories

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### 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

### Labeled device marker

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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 - 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