

## Lightning arrester type 1 - FLT-CP-PLUS-1C-350 - 2882695

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Pluggable lightning current arrester, in acc. with type 1/class I/B for 1-phase power supply networks with combined PE and N (L1, PEN) installed in one cable.

### Why buy this product

- ✓ Plugs can be checked with CHECKMASTER
- ✓ High continuous voltage of 350 V AC for 230/400 V AC networks with high voltage fluctuations
- ✓ With floating remote indication contact
- ✓ Optical, mechanical status indication for the individual arresters
- ✓ Thermal disconnect device for each individual plug
- ✓ Can be used in the pre-meter area



### Key commercial data

Packing unit	1 pc
GTIN	 4 046356 098199
Weight per Piece (excluding packing)	401.29 g
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Dimensions

Height	95 mm
Width	35.6 mm
Depth	71.5 mm
Horizontal pitch	2 Div.

#### Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 80 °C

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## Technical data

### Ambient conditions

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 sinus / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)

### General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	I / II
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN-C
	TT
Number of ports	One
SPD design	Voltage-switching type
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	gray/blue
	black
Housing material	PBT
Pollution degree	2
Inflammability class according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical, remote indicator contact

### Protective circuit

Nominal voltage $U_N$	240 V AC (TN-C)
	240 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$ (L-PEN)	350 V AC
Rated load current $I_L$	125 A (< 55 °C)
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-PEN)	25 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s (L-PEN)	50 kA
Impulse discharge current (10/350) $\mu$ s (L-PEN), charge	12.5 As
Impulse discharge current (10/350) $\mu$ s (L-PEN), specific energy	160 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s (L-PEN), peak current value $I_{imp}$	25 kA
Follow current interrupt rating $I_{fi}$ (L-PEN)	50 kA
Short-circuit current rating $I_{SCCR}$	50 kA
Voltage protection level $U_p$ (L-PEN)	≤ 1.5 kV

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## Technical data

### Protective circuit

Residual voltage $U_{res}$ (L-PEN)	$\leq 1.5$ kV (at $I_n$ )
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s (L-PEN)	$\leq 1.5$ kV
TOV behavior at $U_T$ (L-PEN)	415 V AC (5 s / withstand mode)
	440 V AC (120 min / withstand mode)
Response time $t_A$ (L-PEN)	$\leq 100$ ns
Max. backup fuse with branch wiring	315 A AC (gG)
Max. backup fuse with V-type through wiring	125 A AC (gG)

### Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	PDT contact
Operating voltage	12 V AC ... 250 V AC
	125 V AC (UL)
	125 V DC (200 mA DC)
Operating current	10 mA AC ... 1 A AC
	1 A AC (UL)
	1 A DC (30 V DC)
Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
	4 lb <sub>F</sub> -in. (UL)
Stripping length	7 mm
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	1.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
AWG conductor cross section	28 ... 16
	30 ... 14 (UL)

### Connection data

Connection method	Screw terminal blocks
Conductor cross section stranded min.	2.5 mm <sup>2</sup>
Conductor cross section stranded max.	25 mm <sup>2</sup>
Conductor cross section solid min.	2.5 mm <sup>2</sup>
Conductor cross section solid max.	35 mm <sup>2</sup>
AWG conductor cross section	13 ... 2
	12 ... 2 (UL)
Screw thread	M5
Tightening torque	4.5 Nm
	40 lb <sub>F</sub> -in. (UL)
Stripping length	18 mm

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## Technical data

### UL specifications

UL class	Type 4 SPD for Type 2 applications
Maximum continuous operating voltage MCOV (L-G)	264 V AC
Nom. voltage	240 V AC
Mode of protection	L-G
Power distribution system	1S
Nominal frequency	50/60 Hz
Voltage protection rating VPR (L-G)	1.2 kV
Nominal discharge current I <sub>n</sub> (L-G)	20 kA
Follow current (L-N)	10 kA (264 V AC)

## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130802
eCl@ss 7.0	27130802
eCl@ss 8.0	27130802

### ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000381
ETIM 5.0	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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UL Recognized / cUL Recognized / KEMA-KEUR / CCA / IECCEB Scheme / EAC / cULus Recognized

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## Approvals

Ex Approvals

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Approvals submitted

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### Approval details

UL Recognized

cUL Recognized

KEMA-KEUR

CCA

IECEE CB Scheme

EAC

cULus Recognized

## Accessories

Accessories

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

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### 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

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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: 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: 18 x 5 mm

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### 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

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### Terminal marking

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## Accessories

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

Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 5 x 4.5 mm



## Spare parts

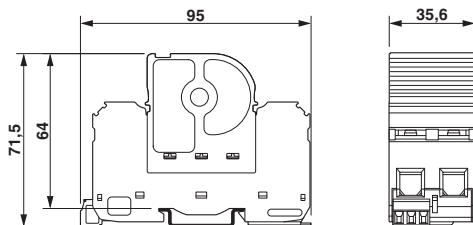
Type 1 surge protection plug - FLT-CP-PLUS-350-ST - 2859913



Type 1 / Class I / B arrester (lightning arrester) replacement plug for paths L-N and L-PEN, can be combined with FLASHTRAB compact series of products.

## Drawings

Dimensioned drawing



Circuit diagram

