

Lightning arrester type 1 - FLT-SEC-P-T1-3C-350/25-FM - 2905419

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Plug-in lightning arrester, in accordance with Type 1/Class I, for 3-phase power supply networks, with combined PE and N installed in one conductor (L1, L2, L3, PEN).

Why buy this product

- Spark gap has no line follow current
- Free of leakage current, suitable for use in the pre-meter area
- High continuous voltage of 350 V AC for 230/400 V AC networks with high voltage fluctuations
- Pluggable
- Low voltage protection level of 1.5 kV
- Optical, mechanical status indicator
- With floating remote indication contact
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Key commercial data

Packing unit	1 pc
GTIN	 4 046356 950091
Weight per Piece (excluding packing)	1347.4 g
Weight per piece (including packing)	1374.42 g
Custom tariff number	85363010
Country of origin	Germany
Sales Key	K1 - Overvoltage Protect.
Note	Made to Order (non-returnable)

Technical data

Dimensions

Height	95.2 mm
Width	106.8 mm

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Technical data

Dimensions

Depth	74.5 mm
Horizontal pitch	6 Div.

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
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)	30g (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
Lightning protection class	II
Number of ports	One
SPD design	Voltage-switching type
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	light grey RAL 7035
	traffic grey A RAL 7042
Housing material	PA 6.6-FR 20% GF
	PBT-FR
Pollution degree	2
Inflammability class according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical, remote indicator contact

Protective circuit

Nominal voltage U_N	240/415 V AC (TN-C)
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) μ s (L-PEN)	25 kA
Maximum discharge current I_{max} (8/20) μ s (L-PEN)	50 kA
Impulse discharge current (10/350) μ s (L-PEN), charge	12.5 As

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Protective circuit

Impulse discharge current (10/350) μ s (L-PEN), specific energy	160 kJ/ Ω
Impulse discharge current (10/350) μ s (L-PEN), peak current value I_{imp}	25 kA
Total discharge current I_{Total} (10/350) μ s	75 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
Residual voltage U_{res} (L-PEN)	≤ 1.5 kV (at I_n)
Front of wave sparkover voltage at 6 kV (1.2/50) μ s (L-PEN)	≤ 1.5 kV
TOV behavior at U_T (L-PEN)	415 V AC (5 s / withstand mode)
	457 V AC (120 min / withstand mode)
Response time t_A (L-PEN)	≤ 100 ns
Max. backup fuse with branch wiring	315 A AC (gG)
Max. backup fuse with V-type through wiring	125 A AC (gG)
Recommended backup fuse maximum	160 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 _f -in. (UL)
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
AWG conductor cross section	28 ... 16
	30 ... 14 (UL)

Connection data

Connection method	Screw terminal blocks
Conductor cross section flexible min.	2.5 mm ²
Conductor cross section flexible max.	25 mm ²
Conductor cross section solid min.	2.5 mm ²

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Connection data

Conductor cross section solid max.	35 mm ²
AWG conductor cross section	13 ... 2
	12 ... 2 (UL)
Screw thread	M5
Tightening torque	4.5 Nm
	40 lb _F -in. (UL)
Stripping length	18 mm

UL specifications

UL class	Type 4 SPD for Type 2 applications
Maximum continuous operating voltage MCOV (L-L)	528 V AC
Maximum continuous operating voltage MCOV (L-G)	264 V AC
Nom. voltage	240 V AC
Mode of protection	L-L
	L-G
Power distribution system	3D
Nominal frequency	50/60 Hz
Voltage protection rating VPR (L-L)	2 kV
Voltage protection rating VPR (L-G)	1.2 kV
Nominal discharge current I _n (L-L)	20 kA
Nominal discharge current I _n (L-G)	20 kA
Follow current (L-N)	10 kA (264 V AC)

Classifications

eCl@ss

eCl@ss 5.1	27130801
eCl@ss 6.0	27130808
eCl@ss 8.0	27130802

ETIM

ETIM 4.0	EC000381
ETIM 5.0	EC000381

Approvals

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UL Recognized / KEMA-KEUR / cUL Recognized / CCA / IECCEB Scheme / GL / EAC / cULus Recognized


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Approvals


Ex Approvals

Approvals submitted


Approval details

UL Recognized 

KEMA-KEUR 


cUL Recognized 

CCA

IECEE CB Scheme 

GL

EAC

cULus Recognized 

Accessories

Accessories

Device marking

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Accessories

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

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

Label - EML (20XE)R - 0803452



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X, THERMOMARK S1.1, Mounting type: Adhesive, Lettering field: continuous x 20 mm

Label - EML (20XE)R YE - 0803453



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X, THERMOMARK S1.1, Mounting type: Adhesive, Lettering field: continuous x 20 mm

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

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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: 18 x 5 mm

Terminal marking

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-SEC-P-T1-350/25-P - 2905422



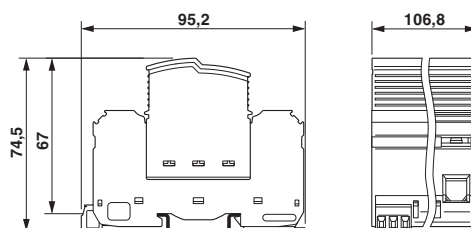
Replacement plug for lightning arresters from the FLASHTRAB SEC PLUS product range, for L-N and L-PEN paths.

Drawings

Pictogram

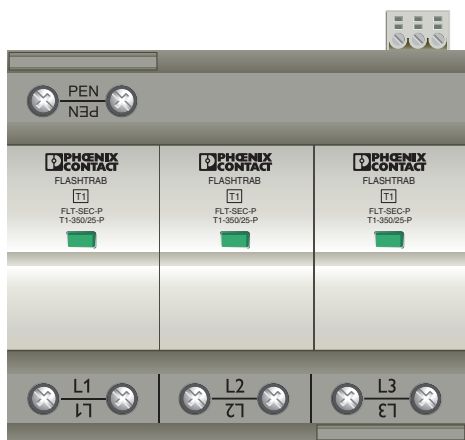


Dimensional drawing

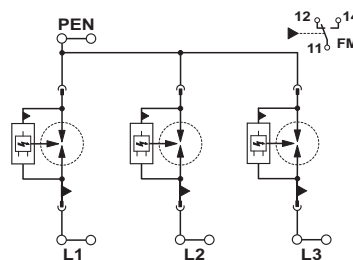


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Product drawing



Circuit diagram



Application drawing

