

Type 1 surge protection plug - FLT-SEC-P-T1-N/PE-350/100-P - 2905473

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Replacement plug for lightning current arresters from the FLASHTRAB SEC product range, for the N-PE path.

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
- ✓ Plugs can be checked with CHECKMASTER 2

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 950725
GTIN	4046356950725
Weight per Piece (excluding packing)	220.000 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	46.4 mm
Width	35.5 mm
Depth	59.4 mm

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Technical data

Dimensions

Horizontal pitch	2 Div.
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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)	30g (half sinus / 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
	T1
	I
EN type	T1 / T2
	T1
IEC power supply system	TT
Mode of protection	N-PE
Mounting type	On base element
Color	light grey RAL 7035
Housing material	PA 6.6-FR 20% GF
	PBT-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Design	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}	≤ 0.01 mA
Nominal discharge current I_n (8/20) μ s	100 kA
Impulse discharge current (10/350) μ s, charge	50 As
Impulse discharge current (10/350) μ s, specific energy	2500 kJ/ Ω

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Protective circuit

Impulse discharge current (10/350) μ s, peak value I_{imp}	100 kA
Follow current interrupt rating I_{fi}	100 A (350 V AC)
Voltage protection level U_p	≤ 1.5 kV
Residual voltage U_{res}	≤ 1.5 kV (at I_n)
	≤ 1 kV (at 10 kA)
	≤ 0.9 kV (at 5 kA)
	≤ 0.8 kV (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 1.5 kV
TOV behavior at U_T	1200 V AC (200 ms / withstand mode)
Response time t_A	≤ 100 ns

UL specifications

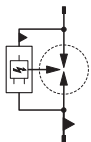
SPD Type	4CA
Maximum continuous operating voltage MCOV (N-G)	264 V AC
Mode of protection	N-G
Power distribution system	1S
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (N-G)	1080 V
Nominal discharge current I_n (N-G)	20 kA

Standards and Regulations

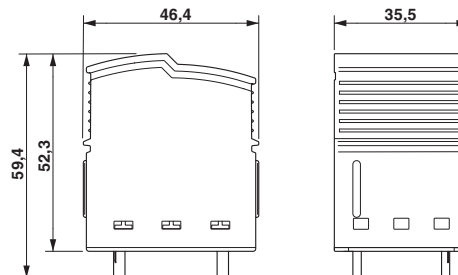
Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

Drawings

Circuit diagram



Dimensional drawing



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Classifications

eCl@ss

eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 8.0	27130802
eCl@ss 9.0	27130802

ETIM

ETIM 4.0	EC000381
ETIM 5.0	EC000381
ETIM 6.0	EC000381

UNSPSC

UNSPSC 13.2	39121620
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Approvals

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

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
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KEMA-KEUR		http://www.dekra-certification.com	2194178.01
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KEMA-KEUR		http://www.dekra-certification.com	2185820.01
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Approvals

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
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CCA			NTR-NL 7349
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CCA			NTR-NL 7348
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IECEE CB Scheme		http://www.iecee.org/	NL-34357
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IECEE CB Scheme		http://www.iecee.org/	NL-34358
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GL		http://exchange.dnv.com/tari/	13946-15 HH
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EAC			RU C- DE.A*30.B01561
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	
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Accessories

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Device marking

Label - EML (20XE)R - 0803452



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, Mounting type: Adhesive, Lettering field: continuous x 20 mm

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Accessories

Label - EML (20XE)R YE - 0803453



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, Mounting type: Adhesive, Lettering field: continuous x 20 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