

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.

Your advantages

- 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 pc
GTIN	 4 046356 950725
GTIN	4046356950725

Technical data

Dimensions

Height	46.4 mm
Width	35.5 mm
Depth	59.4 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))

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Technical data

Ambient conditions

Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (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
	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
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}	≤ 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
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)

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Technical data

Protective circuit

Response time t_A	≤ 100 ns
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Connection data

Connection method	pluggable
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UL specifications

SPD Type	1CA
Maximum continuous operating voltage MCOV	350 V AC
Mode of protection	L-G
	N-G
Nominal frequency	50/60 Hz
Voltage protection rating VPR	1200 V
Nominal discharge current I_n	20 kA

Standards and Regulations

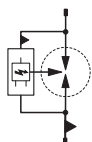
Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

Environmental Product Compliance

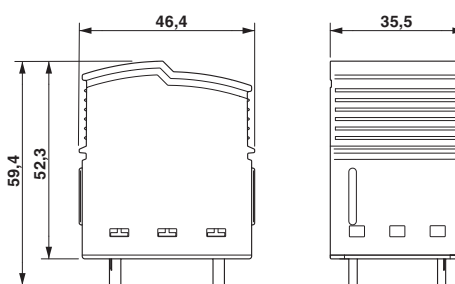
REACH SVHC	Lead 7439-92-1
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Drawings

Circuit diagram



Dimensional drawing



Approvals

Approvals

Approvals

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

Ex Approvals

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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	71-100613
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KEMA-KEUR		http://www.dekra-certification.com	2185820.01
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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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IECEE CB Scheme		http://www.iecee.org/	NL-34358
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CCA			NTR-NL 7349
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Approvals

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