

## Type 1 surge protection plug - FLT-SEC-P-T1-440/35-P - 2905989

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Replacement plug for lightning current arresters from the FLASHTRAB SEC PLUS 440 product range, for L-N and L-PE paths.

### Your advantages

- Spark gap has no line follow current
- Free of leakage current
- High continuous voltage of 440 V AC for 400/690 V AC networks with high voltage fluctuations
- Satisfies TOV requirements for use in IT systems
- Pluggable
- Low voltage protection level of 2.5 kV
- Optical, mechanical status indicator
- Plugs can be checked with CHECKMASTER 2



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 013282
GTIN	4055626013282
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Dimensions

Height	46.6 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-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	L-N
	L-PE
	L-PEN
	N-PE (4+0)
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 $U_N$	400 V AC (TN)
	400 V AC (IT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$	440 V AC
Residual current $I_{PE}$	< 5 $\mu$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s	35 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s	50 kA
Impulse discharge current (10/350) $\mu$ s, charge	17.5 As

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#### Protective circuit

Impulse discharge current (10/350) $\mu$ s, specific energy	310 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	35 kA
Follow current interrupt rating $I_{fi}$	50 kA
Short-circuit current rating $I_{SCCR}$	50 kA
Voltage protection level $U_p$	$\leq 2.5$ kV
Residual voltage $U_{res}$	$\leq 2.5$ kV (at $I_n$ )
TOV behavior at $U_T$	580 V AC (5 s / withstand mode)
	800 V AC (120 min / withstand mode)
	1640 V AC (200 ms / safe failure mode)
Response time $t_A$	$\leq 100$ ns
Max. backup fuse with branch wiring	400 A (gG)

#### Connection data

Connection method	pluggable
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#### UL specifications

SPD Type	1CA
Maximum continuous operating voltage MCOV	440 V AC
Nom. voltage	400 V AC
Mode of protection	L-N
	L-G
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Voltage protection rating VPR	1800 V
Nominal discharge current $I_n$	20 kA
Short-circuit current rating (SCCR)	25 kA

#### Standards and Regulations

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

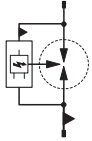
#### Environmental Product Compliance

REACH SVHC	N,N-dimethylacetamide 127-19-5
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

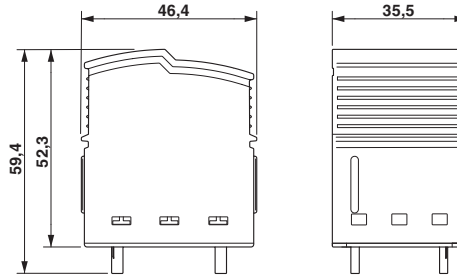
### Drawings

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Circuit diagram



Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 10.0.1	27130890
eCl@ss 11.0	27130890
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130802
eCl@ss 9.0	27130890

### ETIM

ETIM 4.0	EC000381
ETIM 6.0	EC000381
ETIM 7.0	EC002496

### UNSPSC

UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

## Approvals

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

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## Approvals

Ex Approvals

### Approval details

CCA			NTR-NL 7480
KEMA-KEUR		<a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a>	2188430.01
IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	NL-40634
EAC			RU C-DE.*09.B.00169
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
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
cULus Recognized			

## Accessories

Accessories

Device marking

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### Accessories

Label - EML (20XE)R - 0803452



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: adhesive, lettering field size: continuous x 20 mm

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Label - EML (20XE)R YE - 0803453



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: adhesive, lettering field size: continuous x 20 mm

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### Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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