

# FLT-SEC-H-T1-440/25-P - Type 1 surge protection plug



2907261

<https://www.phoenixcontact.com/us/products/2907261>

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



## Your advantages

- Surge protection family for universal use with optimum energy coordination from the lightning current arrester to the device protection
- Easy to maintain due to consistently pluggable protection modules
- Excellent level of information provided by mechanical/visual status indicator and remote indication contact
- Optimum protective effect in the event of high-energy lightning currents, thanks to spark gap technology with low residual voltage characteristic
- Integrated lightning-current-proof backup fuse for a low overall voltage protection level and space savings of up to 80% compared to an external backup fuse

## Commercial data

Item number	2907261
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL1163
Catalog page	Page 34 (C-4-2019)
GTIN	4055626176444
Weight per piece (including packing)	398.4 g
Weight per piece (excluding packing)	397.1 g
Country of origin	DE

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## Technical data

### Product properties

IEC test classification	I / II
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN
	IT
Type	Male
Product type	Replacement plug
Product family	SEC Family
Number of positions	1
Surge protection fault message	optical

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

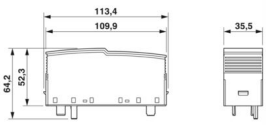
### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
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### Connection data

Connection method	pluggable
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### Dimensions

Dimensional drawing	
Width	35.5 mm
Height	113.4 mm
Depth	64.2 mm
Horizontal pitch	2 Div.

### Material specifications

Color	light grey (RAL 7035)
	gray (RAL 7042)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6-FR 20% GF
	PBT-FR
Material group	I
Housing material	PA 6.6-FR 20 % GF

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	PBT-FR
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## Protective circuit

Mode of protection	L-N
	L-PE
	L-PEN
	N-PE (4+0)
Direction of action	L-N / L-PEN
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 $I_{PE}$	$\leq 5 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$	25 kA
Maximum discharge current $I_{max}$ (8/20) $\mu s$	50 kA
Impulse discharge current (10/350) $\mu s$ , charge	12.5 As
Impulse discharge current (10/350) $\mu s$ , specific energy	160 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu s$ , peak value $I_{imp}$	25 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 $U_{res}$	$\leq 2.1$ kV (at $I_n$ )
	$\leq 2.8$ kV (at 50 kA)
	$\leq 1.7$ kV (at 12.5 kA)
	$\leq 1.5$ kV (at 5 kA)
	$\leq 1.35$ kV (at 2.5 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu s$	$\leq 2.5$ kV
TOV behavior at $U_T$	580 V AC (5 s / withstand mode)
	760 V AC (120 min / withstand mode)
	1640 V AC (200 ms / safe failure mode)
Response time $t_A$	$\leq 100$ ns

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	$\leq 2000$ m (amsl)
Permissible humidity (operation)	5 % ... 95 %

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

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## EN 61643-11

Standards/specifications	EN 61643-11
Note	2012

## Mounting

Mounting type	on base element
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## Classifications

### ECLASS

ECLASS-11.0	27130890
ECLASS-13.0	27171292

### ETIM

ETIM 9.0	EC002496
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

REACH SVHC	N,N-dimethylacetamide 127-19-5
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)