

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
GTIN	4055626176444
Weight per piece (including packing)	398.4 g
Weight per piece (excluding packing)	397.1 g
Country of origin	TR

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Technical data

Product properties

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

Insulation characteristics

Overvoltage category	III
Pollution degree	2

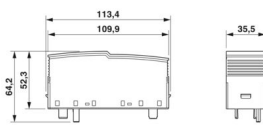
Electrical properties

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 gray (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 operating voltage U_C	440 V AC
Protective conductor current I_{PE}	$\leq 5 \mu A$
Nominal discharge current I_n (8/20) μs	25 kA
Maximum discharge current I_{max} (8/20) μs	50 kA
Impulse discharge current (10/350) μs , charge	12.5 As
Impulse discharge current (10/350) μs , specific energy	160 kJ/ Ω
Impulse discharge current (10/350) μs , 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	≤ 2.5 kV
Residual voltage U_{res}	≤ 2.1 kV (at I_n)
	≤ 2.8 kV (at 50 kA)
	≤ 1.7 kV (at 12.5 kA)
	≤ 1.5 kV (at 5 kA)
	≤ 1.35 kV (at 2.5 kA)
Front-of-wave sparkover voltage at 6 kV (1.2/50) μs	≤ 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	≤ 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	≤ 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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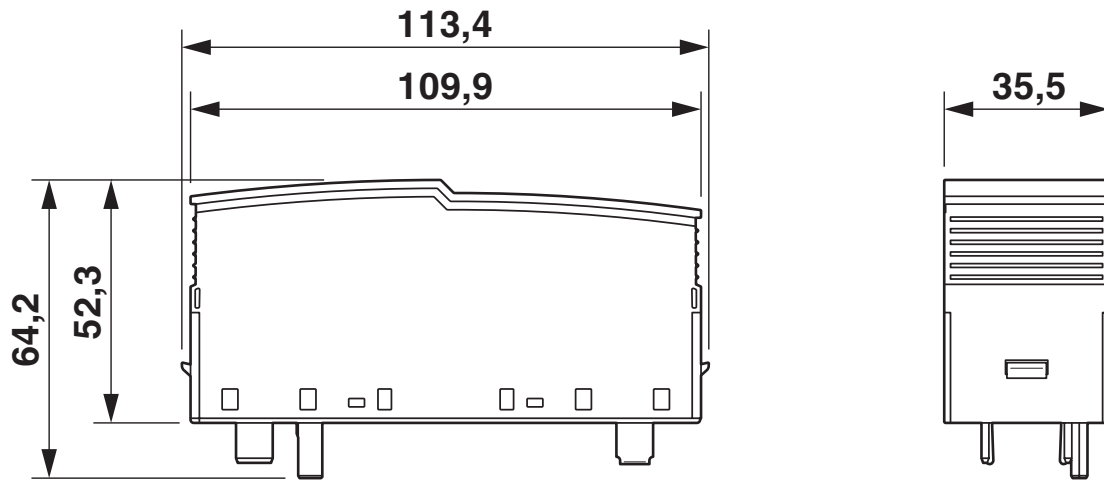


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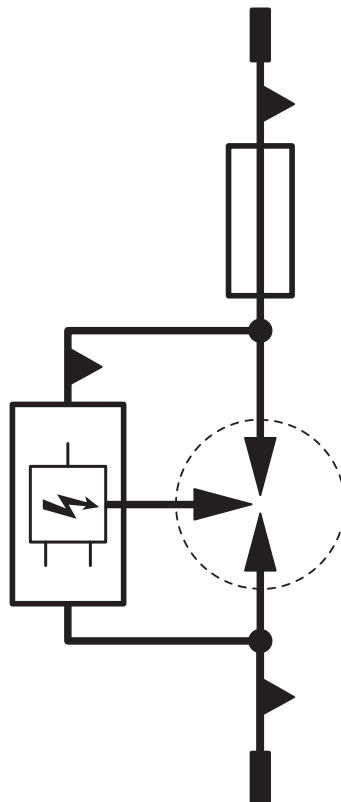
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2907261>



IECEE CB Scheme

Approval ID: NL-41433

CCA

Approval ID: NTR-NL 7490



KEMA-KEUR

Approval ID: 2188437.01

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Classifications

ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

ETIM

ETIM 10.0	EC002496
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	N,N-dimethylacetamide(CAS: 127-19-5)
	Lead(CAS: 7439-92-1)
SCIP	3c5688be-6960-41a7-8aaa-aced1bf45206

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