

# FLT-SEC-P-T1-350/25-P - Type 1 surge protection plug



2905422

<https://www.phoenixcontact.com/us/products/2905422>

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Replacement plug for lightning current arresters from the FLASHTRAB SEC PLUS 350 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
- Low voltage protection level for direct protection of end devices in the main distribution area

## Commercial data

Item number	2905422
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1171
Catalog page	Page 37 (C-4-2019)
GTIN	4046356950107
Weight per piece (including packing)	254 g
Weight per piece (excluding packing)	262.5 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

### Notes

#### General

Note	Max. single impulse: 100 kA (8/20 $\mu$ s)
	SPD according to AS/NZS 1768 Cat. C3

### Product properties

IEC test classification	I / II
	I
	T1 / T2
	T1
EN type	T1 / T2
	T1
IEC power supply system	TN
	TT
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	46.6 mm
Depth	59.4 mm
Horizontal pitch	2 Div.

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## 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	PA6.6-FR 20% GF PBT-FR
Material group	I
Housing material	PA 6.6-FR 20 % GF PBT-FR

## Protective circuit

Mode of protection	L-N L-PEN
Direction of action	L-N / L-PEN
Nominal voltage $U_N$	240 V AC (TN) 240 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$	350 V AC
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 $U_p$	$\leq 1.5$ kV
Residual voltage $U_{res}$	$\leq 1.5$ kV (at $I_n$ )
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s	$\leq 1.5$ kV
TOV behavior at $U_T$	415 V AC (5 s / withstand mode) 457 V AC (120 min / withstand mode)
Response time $t_A$	$\leq 100$ ns
Max. backup fuse with branch wiring	315 A (gG)

## Additional technical data

Short-circuit current rating $I_{SCCR}$	100 kA (264 V AC)
Follow current interrupt rating $I_{fi}$	100 kA (264 V AC)

## 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

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Altitude	≤ 2000 m (amsl)
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)

## Approvals

### UL specifications

Maximum continuous operating voltage MCOV	350 V AC
Short-circuit current rating (SCCR)	50 kA
Voltage protection rating VPR	1500 V
Nominal discharge current $I_n$	20 kA
Mode of protection	L-N
	L-G
Nominal voltage	240 V AC
Power distribution system	Single phase
Nominal frequency	50/60 Hz
SPD Type	1CA

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

### 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

China RoHS	Environmentally friendly use period: unlimited = EFUP-e No hazardous substances above threshold values
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