

# FLT-SEC-P-T1-1C-350/25-FM - Type 1+2 combined lightning current and surge arrester



2905414

<https://www.phoenixcontact.com/us/products/2905414>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in lightning arrester free of leakage current, in accordance with Type 1/Class I, for 1-phase power supply networks, with combined PE and N installed in one conductor (L1, PEN).

## 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	2905414
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1171
GTIN	4046356949460
Weight per piece (including packing)	403.8 g
Weight per piece (excluding packing)	404.9 g
Customs tariff number	85363010
Country of origin	TR

# FLT-SEC-P-T1-1C-350/25-FM - Type 1+2 combined lightning current and surge arrester



2905414

<https://www.phoenixcontact.com/us/products/2905414>

## Technical data

### Notes

#### General

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

### Product properties

Product type	Combination type
Product family	SEC Family
IEC test classification	I / II
	I
	T1 / T2
	T1
EN type	T1 / T2
	T1
IEC power supply system	TN-C
	TT
Type	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical, remote indicator contact
Number of ports	One

#### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
-------------------------	---------------

#### Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	12 V AC ... 250 V AC
	125 V DC (200 mA DC)
Operating current	10 mA AC ... 1 A AC
	1 A DC (30 V DC)

### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm

# FLT-SEC-P-T1-1C-350/25-FM - Type 1+2 combined lightning current and surge arrester

2905414

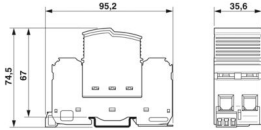
<https://www.phoenixcontact.com/us/products/2905414>

Stripping length	18 mm
Conductor cross-section flexible	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section rigid	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section AWG	13 ... 2
Connection method	Fork-type cable lug
Conductor cross-section flexible	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>

## Remote fault indicator contact

Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	28 ... 16

## Dimensions

Dimensional drawing	
Width	35.6 mm
Height	95.2 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	2 Div.

## Material specifications

Color (Male connector)	light gray (RAL 7035)
Color (Base element)	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

## Mechanical properties

### Mechanical data

Open side panel	No
-----------------	----

## Protective circuit

# FLT-SEC-P-T1-1C-350/25-FM - Type 1+2 combined lightning current and surge arrester



2905414

<https://www.phoenixcontact.com/us/products/2905414>

Mode of protection	L-PEN
Direction of action	1L-PEN
Nominal voltage $U_N$	240 V AC (TN-C)
	240 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$	350 V AC
Rated load current $I_L$	125 A (< 55 °C)
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 V-type through wiring	125 A (gG)
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 (only when all terminal points are used)
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 %
Shock (operation)	30g (Half-sine / 11 ms / 3x $\pm$ X, $\pm$ Y, $\pm$ 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

# FLT-SEC-P-T1-1C-350/25-FM - Type 1+2 combined lightning current and surge arrester



2905414

<https://www.phoenixcontact.com/us/products/2905414>

Nominal discharge current $I_n$	20 kA
Mode of protection	L-G
Nominal voltage	240 V AC
Rated load current $I_L$	50 A
Power distribution system	Single phase
Nominal frequency	50/60 Hz
SPD Type	2CA

## UL indicator/remote signaling

Operating voltage	125 V AC
AC operating current	1 A AC

## UL connection data

Tightening torque	40 lb <sub>f</sub> -in.
Conductor cross-section AWG	3 ... 2

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

## EN 61643-11

Standards/specifications	EN 61643-11
Note	2012

## Mounting

Mounting type	DIN rail: 35 mm
---------------	-----------------

# FLT-SEC-P-T1-1C-350/25-FM - Type 1+2 combined lightning current and surge arrester

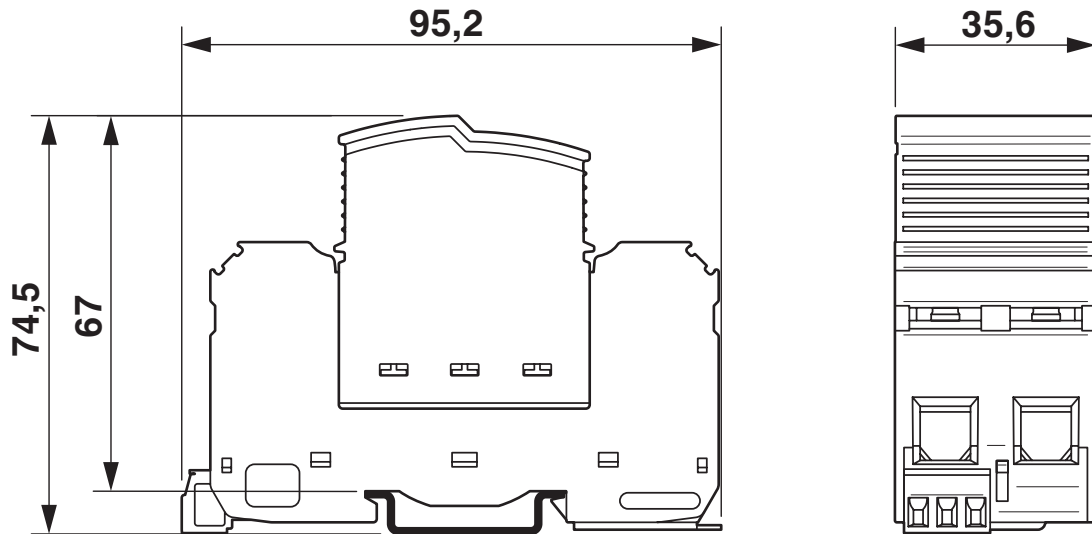


2905414

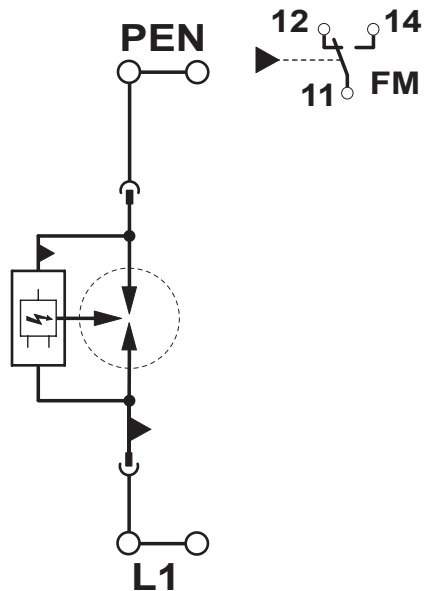
<https://www.phoenixcontact.com/us/products/2905414>

## Drawings

Dimensional drawing



Circuit diagram



# FLT-SEC-P-T1-1C-350/25-FM - Type 1+2 combined lightning current and surge arrester



2905414

<https://www.phoenixcontact.com/us/products/2905414>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905414>



**cUL Recognized**  
Approval ID: FILE E 330181



**UL Recognized**  
Approval ID: FILE E 330181



**IECEE CB Scheme**  
Approval ID: NL-56588

**CCA**

Approval ID: NTR-NL 7726



**KEMA-KEUR**  
Approval ID: 71-165048

**UAE-RoHS**

Approval ID: 23-10-88709

# FLT-SEC-P-T1-1C-350/25-FM - Type 1+2 combined lightning current and surge arrester



2905414

<https://www.phoenixcontact.com/us/products/2905414>

## Classifications

### ECLASS

ECLASS-13.0	27171201
ECLASS-15.0	27171201

### ETIM

ETIM 10.0	EC000381
-----------	----------

### UNSPSC

UNSPSC 21.0	39121600
-------------	----------

# FLT-SEC-P-T1-1C-350/25-FM - Type 1+2 combined lightning current and surge arrester



2905414

<https://www.phoenixcontact.com/us/products/2905414>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### China RoHS

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

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

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