

FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

<https://www.phoenixcontact.com/us/products/2905871>

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 current arrester, in accordance with Type 1/Class I, with integrated surge-proof fuse, for 3-phase power supply networks with combined PE and N installed in one conductor (L1, L2, L3, 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
- 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	2905871
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL1162
GTIN	4055626003825
Weight per piece (including packing)	1,792 g
Weight per piece (excluding packing)	1,792 g
Country of origin	DE

FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

<https://www.phoenixcontact.com/us/products/2905871>

Technical data

Notes

General

Note	Max. single impulse: 100 kA (8/20 μ 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
Distance between live and grounded parts	1 mm
Number of positions	3
Surge protection fault message	Optical, remote indicator contact

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-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

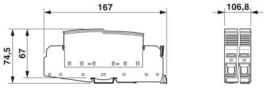
<https://www.phoenixcontact.com/us/products/2905871>

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

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 ² ... 1.5 mm ²
Conductor cross-section rigid	0.14 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16

Dimensions

Dimensional drawing	
	
Width	106.8 mm
Height	167 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	6 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	PA 6.6-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

Mode of protection	L-PEN
--------------------	-------

FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

<https://www.phoenixcontact.com/us/products/2905871>

Direction of action	3L-N/PE
Nominal voltage U_N	240/415 V AC (TN-C)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	264 V AC
Nominal discharge current I_n (8/20) μ s	25 kA
Maximum discharge current I_{max} (8/20) μ s	50 kA
Impulse discharge current (10/350) μ s, charge	12.5 As
Impulse discharge current (10/350) μ s, specific energy	160 kJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	25 kA
Total discharge current I_{Total} (10/350) μ s	75 kA
Follow current interrupt rating I_{fi}	50 kA
Short-circuit current rating I_{SCCR}	50 kA
Voltage protection level U_p	≤ 1.5 kV
Residual voltage U_{res}	≤ 1.5 kV (at I_n) ≤ 2.5 kV (at 50 kA) ≤ 1.2 kV (at 12.5 kA) ≤ 1 kV (at 5 kA) ≤ 0.9 kV (at 2.5 kA)
Front-of-wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 1.5 kV
TOV behavior at U_T	415 V AC (5 s / withstand mode) 460 V AC (120 min / withstand mode)
Response time t_A	≤ 100 ns

Additional technical data

Maximum continuous operating voltage U_C	275 V AC
Short-circuit current rating I_{SCCR}	100 kA
Follow current interrupt rating I_{fi}	100 kA

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	≤ 4000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

EN 61643-11

Standards/specifications	EN 61643-11
Note	2012

FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

<https://www.phoenixcontact.com/us/products/2905871>

Mounting

Mounting type

DIN rail: 35 mm

FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester

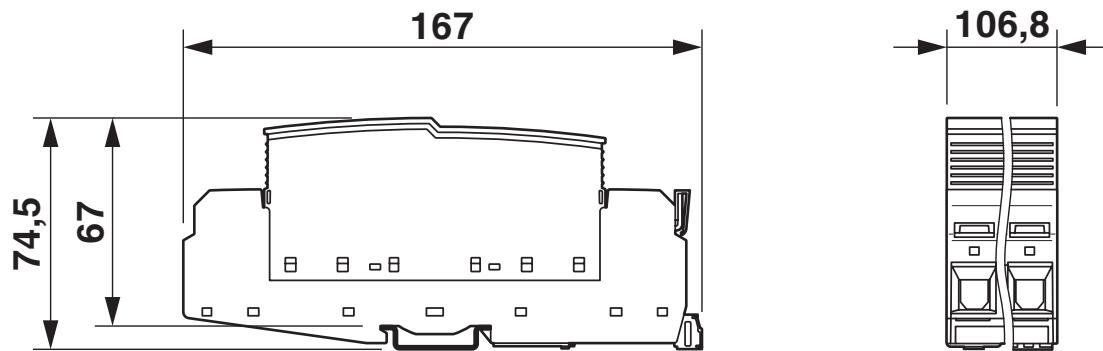


2905871

<https://www.phoenixcontact.com/us/products/2905871>

Drawings

Dimensional drawing



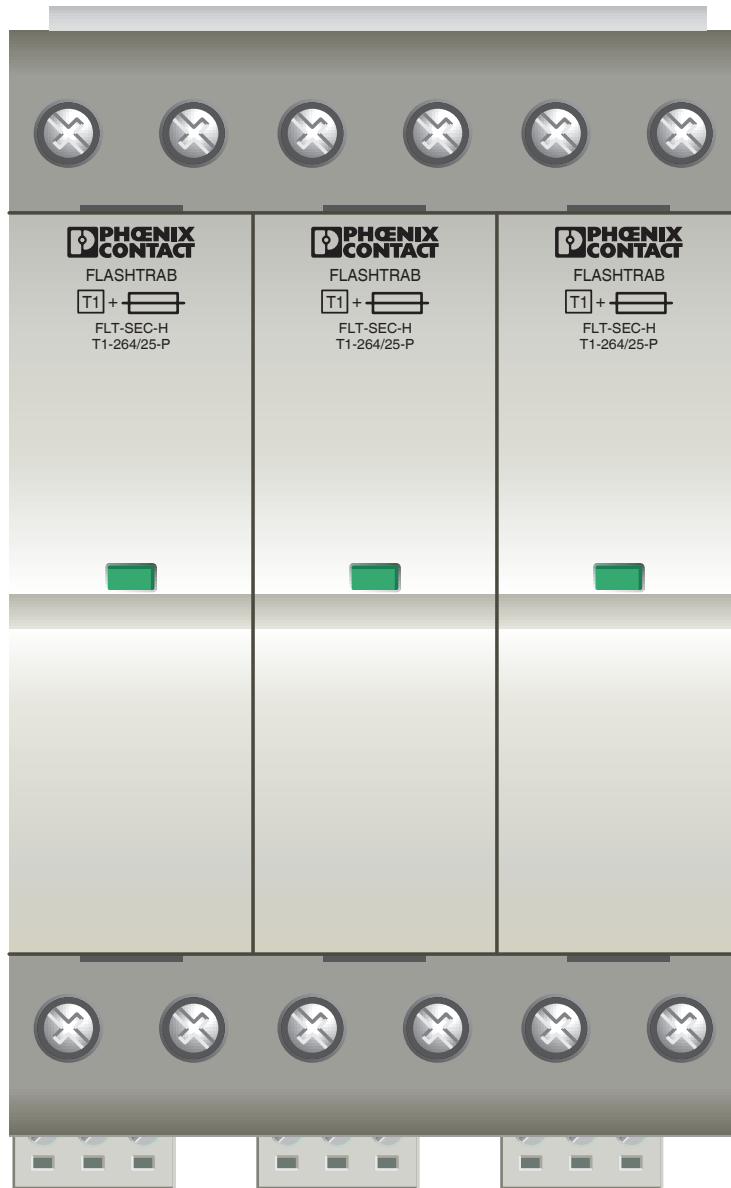
FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

<https://www.phoenixcontact.com/us/products/2905871>

Product drawing



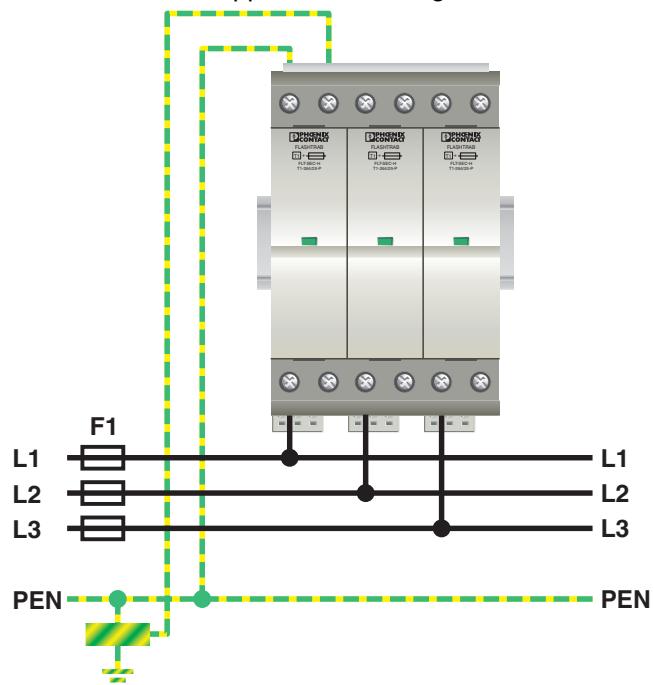
FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



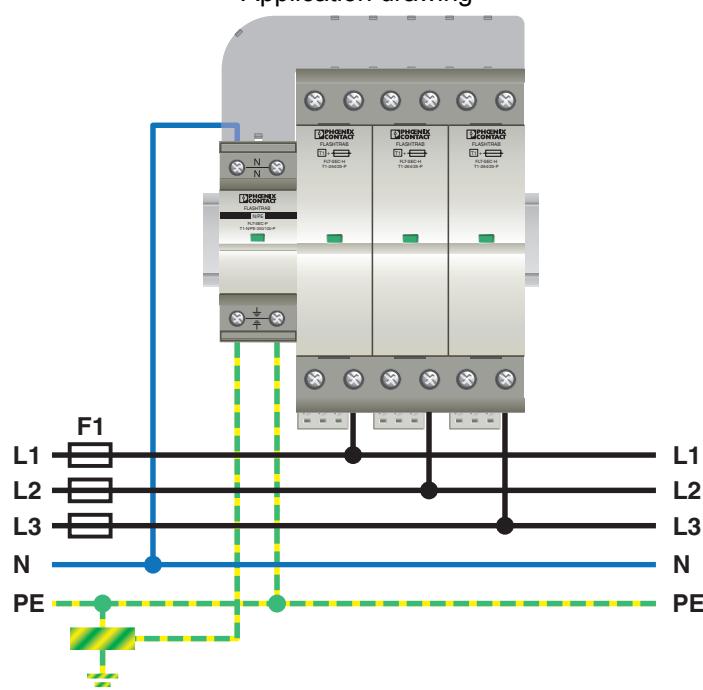
2905871

<https://www.phoenixcontact.com/us/products/2905871>

Application drawing



Application drawing



Structure of a 3+1 circuit for TN-S/TT systems with an N/PE spark gap and wiring bridge.

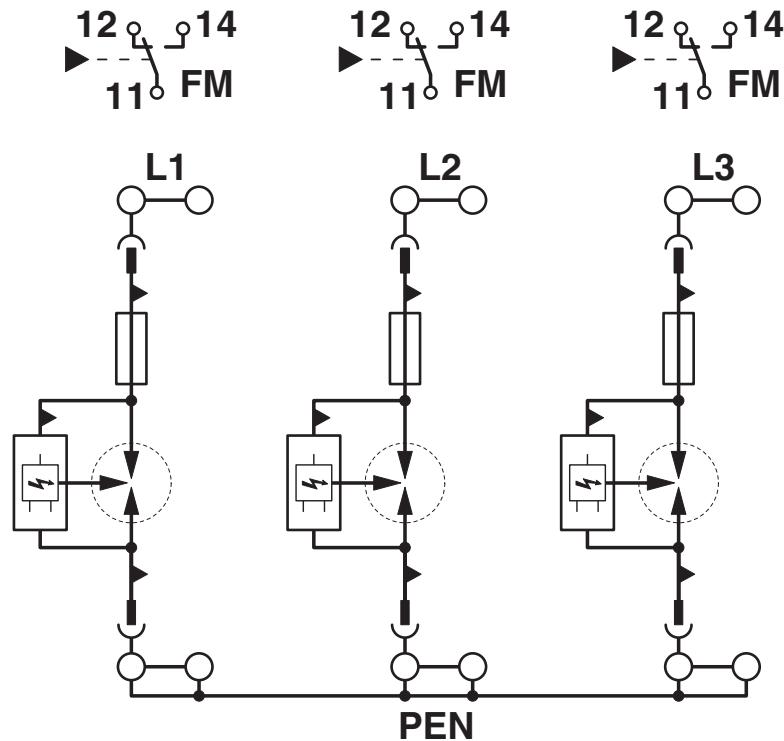
FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

<https://www.phoenixcontact.com/us/products/2905871>

Circuit diagram



FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

<https://www.phoenixcontact.com/us/products/2905871>

Approvals

>To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905871>



IECEE CB Scheme

Approval ID: NL-36550

CCA

Approval ID: NTR-NL 7417



KEMA-KEUR

Approval ID: 2175106.01

FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

<https://www.phoenixcontact.com/us/products/2905871>

Classifications

ECLASS

ECLASS-13.0	27171201
ECLASS-15.0	27171201

ETIM

ETIM 9.0	EC000381
----------	----------

UNSPSC

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

FLT-SEC-H-T1-3C-264/25-FM - Type 1+2 combined lightning current and surge arrester



2905871

<https://www.phoenixcontact.com/us/products/2905871>

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 2025 © - 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