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

2801615

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Plug-in lightning current arrester free of leakage current, in accordance with Type 1/Class I, with integrated surge-proof fuse, for 1-phase power supply networks with combined PE and N installed in one conductor (L1, PEN), suitable for use in the unmetered area.

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	2801615
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL1162
Product key	CL1162
GTIN	4046356889032
Weight per piece (including packing)	634.832 g
Weight per piece (excluding packing)	669.658 g
Customs tariff number	85363030
Country of origin	TR

Technical data

Notes

General

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

Product properties

Product type	Combination type
Product family	SEC Family
IEC test classification	I / II
EN type	T1 / T2
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

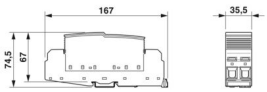
Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	18 mm
Conductor cross-section flexible	2.5 mm² ... 35 mm²
Conductor cross-section rigid	2.5 mm² ... 35 mm²
Conductor cross-section AWG	13 ... 2

Connection method	Fork-type cable lug
Conductor cross-section flexible	1.5 mm² ... 16 mm²

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 mm² ... 1.5 mm²
Conductor cross-section rigid	0.14 mm² ... 1.5 mm²
Conductor cross-section AWG	28 ... 16

Dimensions

Dimensional drawing	
Width	35.5 mm
Height	167 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	2 HP

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
Direction of action	1L-N/PE
Nominal voltage U_N	240 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) 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	≤ 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) µs	≤ 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

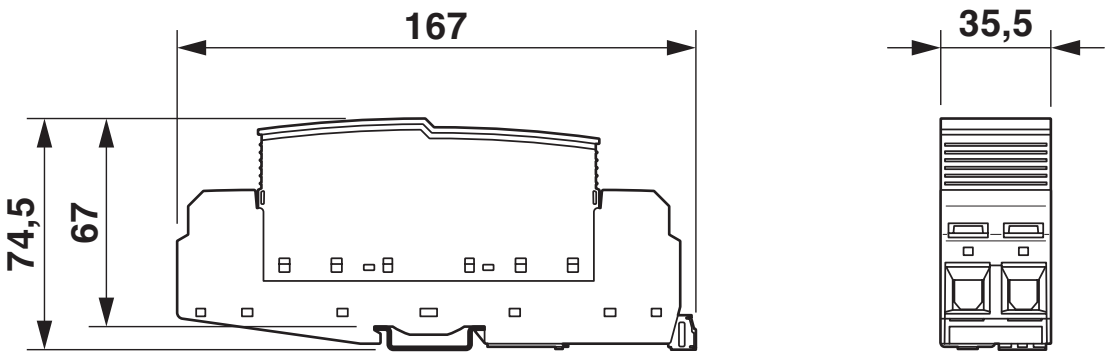
Standards/specifications	EN 61643-11
Note	2012

Mounting

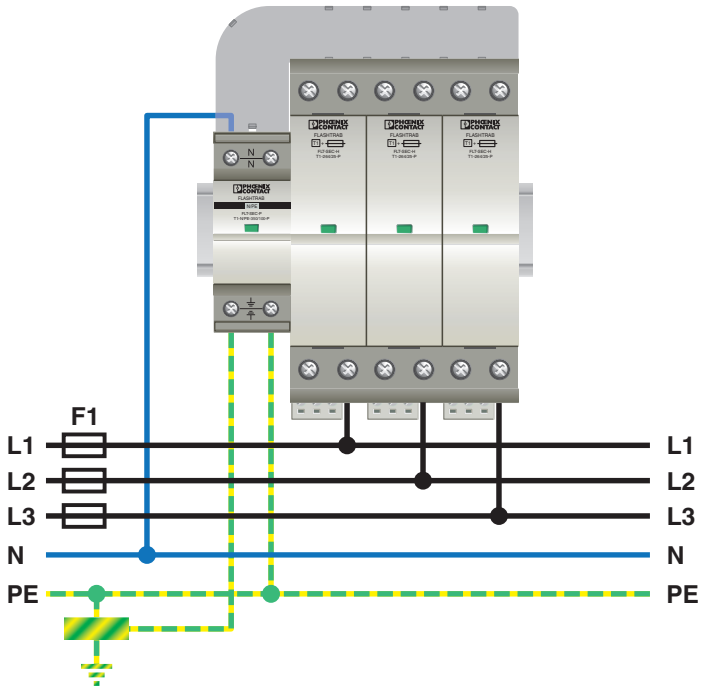
Mounting type	DIN rail: 35 mm

Drawings

Dimensional drawing

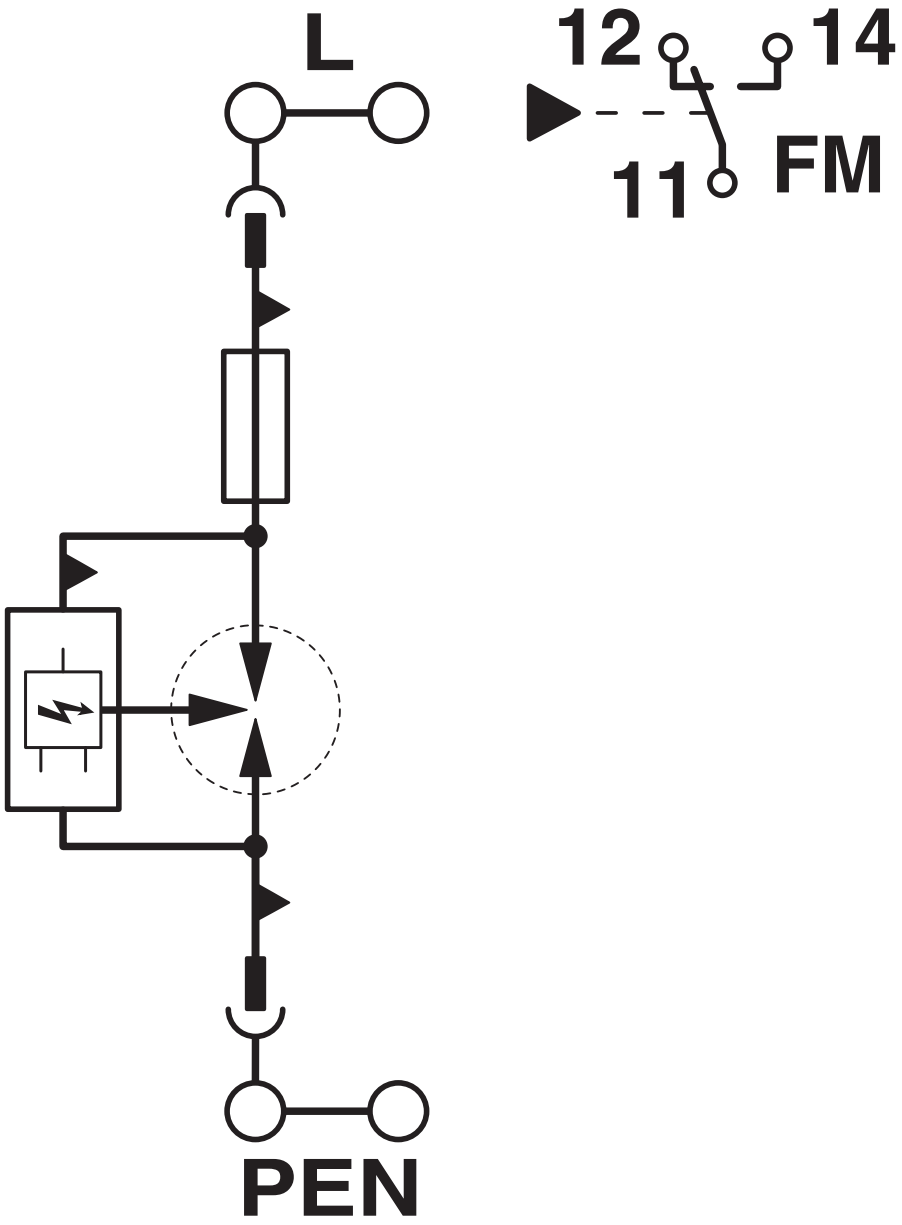


Application drawing



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

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2801615

IECEE CB Scheme
Approval ID: NL-36550

CCA
Approval ID: NTR-NL 7417

KEMA-KEUR
Approval ID: 71-165056

Classifications

ECLASS

ECLASS-13.0	27171201
ECLASS-15.0	27171201

ETIM

ETIM 10.0	EC000381

UNSPSC

UNSPSC 21.0	39121600

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%

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