Combination type 1/2 protective device - FLT-SEC-H-T1-1C-264/25-FM - 2801615

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Plug-in lightning current arrester, 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).

Your advantages

- Integrated combination of spark gap without line follow current and surge-proof fuse
- Can be used without separate backup fuse thanks to integrated overcurrent protection
- Free of leakage current, suitable for use in the pre-meter area
- Can be inserted with innovative push-pull locking mechanism
- Low voltage protection level of 1.5 kV
- Optical, mechanical status indicator
- With floating remote indication contact

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 889032
GTIN	4046356889032

Technical data

Dimensions

Height	167 mm
Width	35.5 mm
Depth	74.5 mm
Horizontal pitch	2 Div.

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 80 °C

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Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 4000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

General

IEC test classification	I / II
	T1 / T2
	T1
	I
EN type	T1 / T2
	T1
IEC power supply system	TN-C
	TT
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	light grey RAL 7035
	traffic grey A RAL 7042
Housing material	PA 6.6-FR 20% GF
	PBT-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical, remote indicator contact

Protective circuit

Nominal voltage U_N	240 V AC (TN-C)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous 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)

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Protective circuit

	≤ 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

Follow current interrupt rating I_{fi}	100 kA
Short-circuit current rating I_{SCCR}	100 kA

Indicator/remote signaling

Switching function	PDT 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 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 solid	0.14 mm² ... 1.5 mm²
Conductor cross section AWG	28 ... 16

Connection data

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

Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

Drawings

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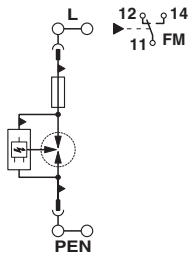
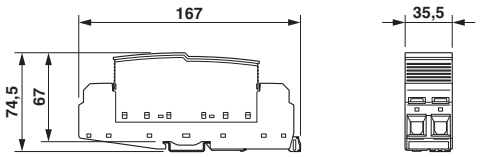
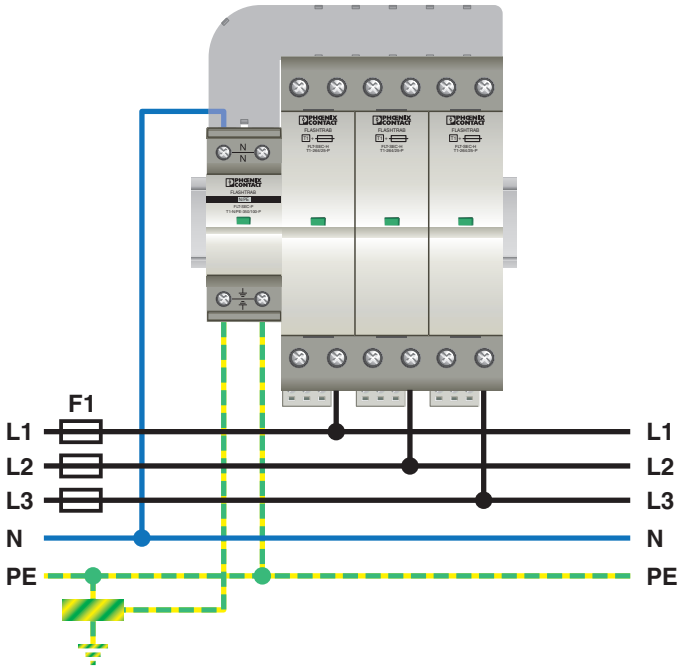
Circuit diagram



Dimensional drawing



Application drawing



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

Approvals

Approvals

Approvals

CCA / KEMA-KEUR / IECEE CB Scheme / EAC

Ex Approvals

Approval details

Combination type 1/2 protective device - FLT-SEC-H-T1-1C-264/25-FM - 2801615

Approvals

CCA			NTR-NL 7417
KEMA-KEUR	KEMA KEUR	http://www.dekra-certification.com	2175106.01
IECEE CB Scheme	CB scheme	http://www.iecee.org/	NL-36550
EAC	EAC		RU C-DE.A*30.B01561

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
http://www.phoenixcontact.com

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