

# Combination type 1+2 protective device - FLT-SEC-H-T1-1C-440/25-FM - 2907259

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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 2.5 kV
- ✓ Optical, mechanical status indicator
- ✓ With floating remote indication contact



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 176000
GTIN	4055626176000
Weight per Piece (excluding packing)	660.000 g
Custom tariff number	85363030
Country of origin	Germany

## Technical data

### Dimensions

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

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## Technical data

### 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	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

### General

IEC test classification	I+II
	T1+T2
EN type	T1+T2
IEC power supply system	TN-C
	TT
Mode of protection	L-N
	L-PE
	L-PEN
	N-PE (4+0)
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 frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$	440 V AC
Residual current $I_{PE}$	≤ 5 μA
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 $U_p$	≤ 2.5 kV
Residual voltage $U_{res}$	≤ 2.1 kV (at $I_n$ )

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### Protective circuit

	≤ 2.8 kV (at 50 kA)
	≤ 1.7 kV (at 12.5 kA)
	≤ 1.5 kV (at 5 kA)
	≤ 1.35 kV (at 2.5 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) μs	≤ 2.5 kV
TOV behavior at U <sub>T</sub>	580 V AC (5 s / withstand mode)
	760 V AC (120 min / withstand mode)
	1640 V AC (200 ms / safe failure mode)
Response time t <sub>A</sub>	≤ 100 ns

### 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 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section solid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 ... 16

### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	18 mm
Conductor cross section flexible	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section solid	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>

### Standards and Regulations

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

### Environmental Product Compliance

REACH SVHC	N,N-dimethylacetamide 127-19-5
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## Technical data

### Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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