

Lightning current arrester type 1 - 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

package_quantity	1
GTIN	4055626176000

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
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
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Technical data

General

IEC test classification	T1 / T2
EN type	T1 / T2
IEC power supply system	TN-C
IEC power supply system	TT
Mode of protection	L-N
Mode of protection	L-PE
Mode of protection	L-PEN
Mode of protection	N-PE (4+0)
Mounting type	DIN rail: 35 mm
Color	light grey RAL 7035
Color	traffic grey A RAL 7042
Housing material	PA 6.6-FR 20% GF
Housing material	PBT-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Design	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical, remote indicator contact

Protective circuit

Nominal voltage U_N	400 V AC (TN)
Nominal voltage U_N	400 V AC (IT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	440 V AC
Residual current I_{PE}	$\leq 5 \mu A$
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}	≤ 2.5 kV (at I_n)
Front of wave sparkover voltage at 6 kV (1.2/50) μs	≤ 2.5 kV
TOV behavior at U_T	580 V AC (5 s / withstand mode)
TOV behavior at U_T	760 V AC (120 min / withstand mode)
TOV behavior at U_T	1640 V AC (200 ms / safe failure mode)
Response time t_A	≤ 100 ns

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Technical data

Indicator/remote signaling

Switching function	PDT contact
Operating voltage	12 V AC ... 250 V AC
Operating voltage	125 V DC (200 mA DC)
Operating current	10 mA AC ... 1 A AC
Operating current	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
Standards/regulations	EN 61643-11 2012

Classifications

eCl@ss

eCl@ss 5.1	27149116
eCl@ss 8.0	27130802
eCl@ss 9.0	27130802

ETIM

ETIM 4.0	EC000381
ETIM 5.0	EC000381
ETIM 6.0	EC000381

UNSPSC

UNSPSC 13.2	39121620
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Approvals

KEMA-KEUR / CCA / IEC EE CB Scheme / EAC /

Approval details

KEMA-KEUR 

CCA

IECEE CB Scheme 

EAC 

Accessories

End block

CLIPFIX 35 - 3022218



Marker pen

X-PEN 0,35 - 0811228



Device marking

EML (20XE)R - 0803452



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Accessories

EML (20XE)R YE - 0803453



Bridge

MPB 18/1-8/35 - 2908704

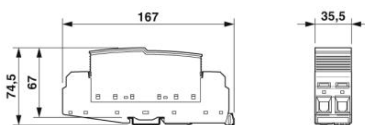


MPB 18/1-6/35 - 2908705



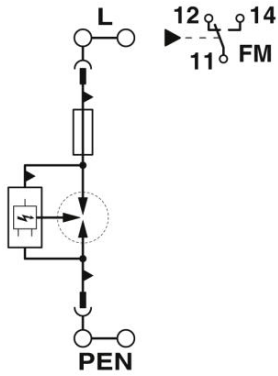
Drawings

Dimensional drawing



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Circuit diagram



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