

Lightning current arrester type 1 - FLT-SEC-P-T1-1C-440/35-FM - 2905987

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Plug-in lightning current arrester for higher nominal voltages, according to Type 1/Class I, for 1-phase power supply networks in TN and IT versions (L1, PE).

Your advantages

- ✓ Spark gap has no line follow current
- ✓ Free of leakage current
- ✓ High continuous voltage of 440 V AC for 400/690 V AC networks with high voltage fluctuations
- ✓ Satisfies TOV requirements for use in IT systems
- ✓ Pluggable
- ✓ Low voltage protection level of 2.5 kV
- ✓ Optical, mechanical status indicator
- ✓ With floating remote indication contact
- ✓ Plugs can be checked with CHECKMASTER 2



Key commercial data

package_quantity	1
GTIN	4055626013268

Technical data

Dimensions

Height	95.2 mm
Width	35.6 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 %

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Technical data

Ambient conditions

Shock (operation)	30g (half sinus / 11 ms / 3x $\pm X$, $\pm Y$, $\pm Z$)
Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)

General

IEC test classification	I / II
IEC test classification	T1 / T2
EN type	T1 / T2
IEC power supply system	TN-C
IEC power supply system	IT
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
Rated load current I_L	125 A (< 55 °C)
Residual current I_{PE}	< 5 μA
Nominal discharge current I_n (8/20) μs	35 kA
Maximum discharge current I_{max} (8/20) μs	50 kA
Impulse discharge current (10/350) μs, charge	17.5 As
Impulse discharge current (10/350) μs, specific energy	310 kJ/ Ω
Impulse discharge current (10/350) μs, peak value I_{imp}	35 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)

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Technical data

Protective circuit

TOV behavior at U_T	580 V AC (5 s / withstand mode)
TOV behavior at U_T	800 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
Max. backup fuse with branch wiring	400 A (gG)
Max. backup fuse with V-type through wiring	125 A (gG)

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 mm ² ... 1.5 mm ²
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
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 mm ² ... 35 mm ²
Conductor cross section solid	2.5 mm ² ... 35 mm ²
Conductor cross section AWG	13 ... 2

Standards and Regulations

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

Environmental Product Compliance

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

Classifications

eCl@ss

eCl@ss 5.1	27130801
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Classifications

eCl@ss

eCl@ss 6.0	27130808
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

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

Approval details

EAC 

KEMA-KEUR 

CCA

IECEE CB Scheme 

Accessories

End block

CLIPFIX 35 - 3022218



Marker pen

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Accessories

X-PEN 0,35 - 0811228



Device marking

EML (20XE)R - 0803452



EML (20XE)R YE - 0803453



ZBN 18:UNBEDRUCKT - 2809128



ZBN 18:UNBEDRUCKT - 2809128



Labeled device marker

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Accessories

ZBN 18,LGS:L1-N,ERDE - 2749576



ZBN 18,LGS:ERDE - 2749589



Terminal marking

ZBFM 5/WH:UNBEDRUCKT - 0803595



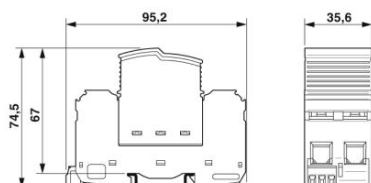
Accessories

ZBN 18:SO/CMS - 0800763



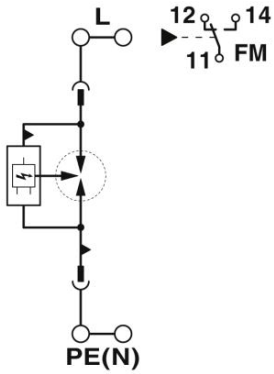
Drawings

Dimensional drawing



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Circuit diagram



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