



Automatización Eléctrica
Especialistas en Automatización

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Lightning arrester type 1 - FLT-SEC-P-T1-3C-440/35-FM - 2905988

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Plug-in lightning arrester for higher nominal voltages, according to Type 1/Class I, for 3-phase power supply networks in TN and IT versions (L1, L2, L3, PE).

Why buy this product

- 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

Packing unit	1 STK
GTIN	 4 055626 013275

Technical data

Dimensions

Height	95.2 mm
Width	106.8 mm
Depth	74.5 mm
Horizontal pitch	6 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	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (half sinus / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)

General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	I / II
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN-C
	IT
Number of ports	One
SPD design	Voltage-switching type
Mode of protection	L-PE
	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	3
Surge protection fault message	Optical, remote indicator contact

Protective circuit

Nominal voltage U_N	400/690 V AC (TN)
	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

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Protective circuit

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)
TOV behavior at U_T	580 V AC (5 s / withstand mode)
	800 V AC (120 min / withstand mode)
	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

Connection name	Remote fault indicator contact
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
	1 A (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 min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG	28 ... 16

Connection data

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

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Classifications

eCl@ss

eCl@ss 5.1	27130801
eCl@ss 6.0	27130808
eCl@ss 8.0	27130802
eCl@ss 9.0	27130802

ETIM

ETIM 4.0	EC000381
ETIM 5.0	EC000381

Approvals

Approvals


Approvals

KEMA-KEUR / EAC / KEMA-KEUR

Ex Approvals

Approvals submitted

Approval details

KEMA-KEUR 

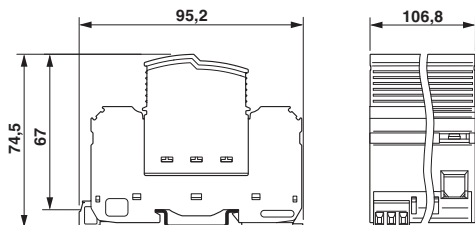
EAC

KEMA-KEUR

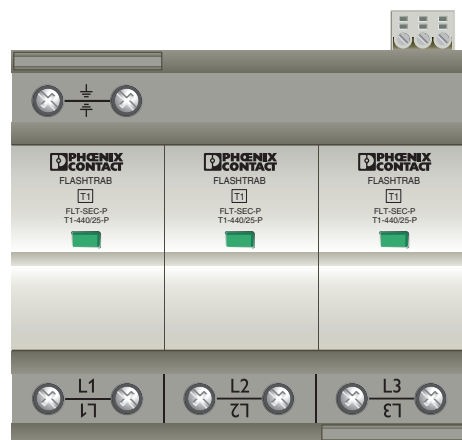
Drawings

Lightning arrester type 1 - FLT-SEC-P-T1-3C-440/35-FM - 2905988

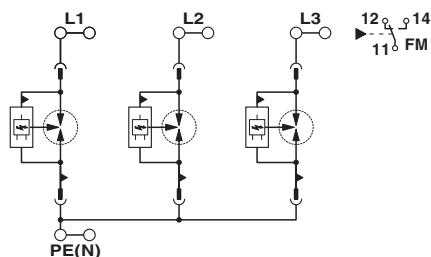
Dimensional drawing



Product drawing



Circuit diagram



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