

Lightning arrester type 1 - FLT-SEC-P-T1-3C-440/25-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, suitable for use in the pre-meter area
- ✓ Satisfies TOV requirements for use in IT systems
- ✓ Pluggable
- ✓ Low voltage protection level of 1.5 kV
- ✓ Optical, mechanical status indicator
- ✓ With floating remote indication contact
- ✓ Plugs can be checked with CHECKMASTER 2



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 013275
Weight per Piece (excluding packing)	1169.61 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	95.2 mm
Width	106.8 mm
Depth	74.5 mm
Horizontal pitch	6 Div.

Ambient conditions

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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 %
Shock (operation)	25g (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
	T1
	I
EN type	T1 / T2
	T1
IEC power supply system	TN-C
	IT
Lightning protection class	II
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
Pollution degree	2
Inflammability class 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
Maximum continuous operating voltage U_C (L-PE)	440 V AC

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Protective circuit

Maximum continuous operating voltage U_C (L-PEN)	440 V AC
Rated load current I_L	125 A (< 55 °C)
Residual current I_{PE}	< 5 μ A
Nominal discharge current I_n (8/20) μ s	25 kA
Nominal discharge current I_n (8/20) μ s (L-PE)	25 kA
Nominal discharge current I_n (8/20) μ s (L-PEN)	25 kA
Maximum discharge current I_{max} (8/20) μ s	50 kA
Maximum discharge current I_{max} (8/20) μ s (L-PE)	50 kA
Maximum discharge current I_{max} (8/20) μ s (L-PEN)	50 kA
Impulse discharge current (10/350)# μ s, charge	12.5 As
Impulse discharge current (10/350)# μ s, specific energy	160 kJ/ Ω
Impulse discharge current (10/350)# μ s, peak value I_{imp}	25 kA
Impulse discharge current (10/350) μ s (L-PE), charge	12.5 As
Impulse discharge current (10/350) μ s (L-PE), specific energy	160 kJ/ Ω
Impulse discharge current (10/350) μ s (L-PE), peak current value I_{imp}	25 kA
Impulse discharge current (10/350) μ s (L-PEN), charge	12.5 As
Impulse discharge current (10/350) μ s (L-PEN), specific energy	160 kJ/ Ω
Impulse discharge current (10/350) μ s (L-PEN), peak current value I_{imp}	25 kA
Follow current interrupt rating I_{fi}	50 kA
Follow current interrupt rating I_{fi} (L-PE)	50 kA
Follow current interrupt rating I_{fi} (L-PEN)	50 kA
Short-circuit current rating I_{SCCR}	50 kA
Voltage protection level U_p	\leq 2.5 kV
Voltage protection level U_p (L-PE)	\leq 2.5 kV
Voltage protection level U_p (L-PEN)	\leq 2.5 kV
Residual voltage U_{res}	\leq 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)
TOV behavior at U_T (L-PE)	1640 V AC (200 ms / safe failure mode)
TOV behavior at U_T (L-PEN)	580 V AC (5 s / withstand mode)
	800 V AC (120 min / withstand mode)
Response time t_A	\leq 100 ns
Response time t_A (L-PE)	\leq 100 ns
Response time t_A (L-PEN)	\leq 100 ns
Max. backup fuse with branch wiring	400 A AC (gG)
Max. backup fuse with V-type through wiring	125 A AC (gG)

Indicator/remote signaling

Connection name	Remote fault indicator contact
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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 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
AWG conductor cross section	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
AWG conductor cross section	13 ... 2
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	18 mm

Classifications

eCl@ss

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

ETIM

ETIM 4.0	EC000381
ETIM 5.0	EC000381

Approvals

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Approvals

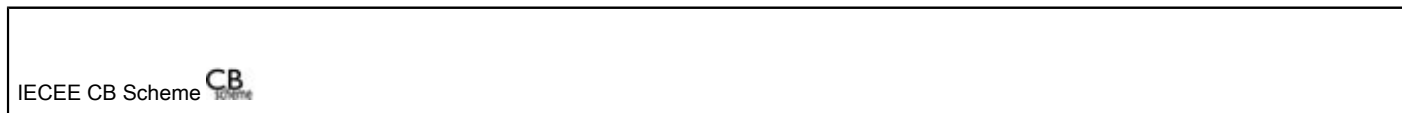
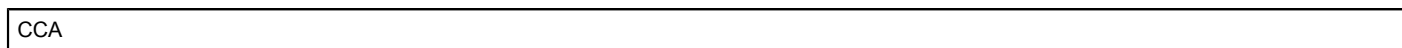
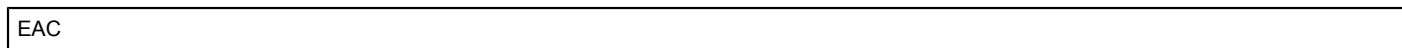
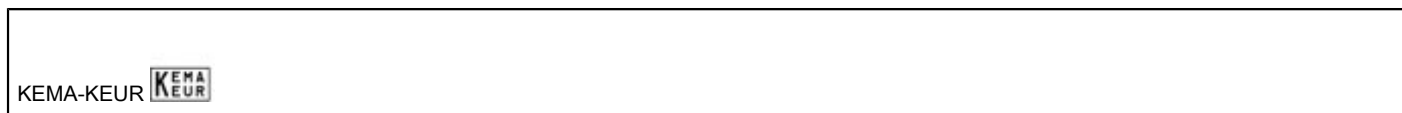
Approvals

KEMA-KEUR / EAC / CCA / IECCE CB Scheme

Ex Approvals

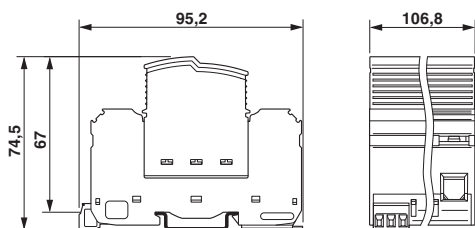
Approvals submitted

Approval details

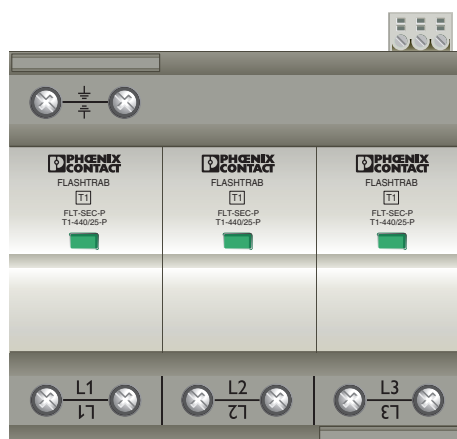


Drawings

Dimensional drawing



Product drawing



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Circuit diagram

