

2905472

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Plug-in lightning current arrester, in accordance with Type 1/Class I, for use in power supply networks between N and PE.

#### Your advantages

- · Surge protection family for universal use with optimum energy coordination from the lightning current arrester to the device protection
- Easy to maintain due to consistently pluggable protection modules
- · Excellent level of information provided by mechanical/visual status indicator and remote indication contact
- · Optimum protective effect in the event of high-energy lightning currents, thanks to spark gap technology with low residual voltage characteristic
- Low voltage protection level for direct protection of end devices in the main distribution area

#### Commercial data

Item number	2905472
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1171
Catalog page	Page 39 (C-4-2019)
GTIN	4046356950701
Weight per piece (including packing)	369.7 g
Weight per piece (excluding packing)	369.7 g
Customs tariff number	85363030
Country of origin	DE



2905472

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#### Technical data

#### Product properties

Product type	Combination type
Product family	SEC Family
IEC test classification	1/11
	I
	T1 / T2
	T1
EN type	T1 / T2
	T1
IEC power supply system	TN-S
	π
Туре	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical, remote indicator contact
Data management status	
Article revision	04
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

#### Electrical properties

Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)	
Indicator/remote signaling		
Connection name	Remote fault indicator contact	
Switching function	Changeover 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 data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	18 mm
Conductor cross section flexible	2.5 mm² 35 mm²
Conductor cross section rigid	2.5 mm² 35 mm²
Conductor cross section AWG	13 2



2905472

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Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 16 mm²
Remote fault indicator contact	
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 rigid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

#### Dimensions

Dimensional drawing	
Width	35.6 mm
Height	95.2 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	2 Div.

#### Material specifications

Color (Male connector)	light gray (RAL 7035)
Color (Base element)	gray (RAL 7042)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA6.6-FR 20% GF
	PBT-FR
Material group	I
Housing material	PA 6.6-FR 20 % GF
	PBT-FR

#### Mechanical properties

Mechanical da	ata
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Open side panel	No
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#### Protective circuit

Mode of protection	N-PE



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Direction of action	N-PE
Nominal voltage U <sub>N</sub>	240 V AC (TN - only N-PE)
	240 V AC (TT - only N-PE)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	350 V AC
Rated load current I <sub>L</sub>	125 A (< 55 °C)
Residual current I <sub>PE</sub>	≤ 0.01 mA
Nominal discharge current I <sub>n</sub> (8/20) μs	100 kA
Impulse discharge current (10/350) µs, charge	50 As
Impulse discharge current (10/350) µs, specific energy	2500 kJ/Ω
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	100 kA
Follow current interrupt rating I <sub>fi</sub>	100 A
Voltage protection level U <sub>p</sub>	≤ 1.5 kV
Residual voltage U <sub>res</sub>	≤ 1.5 kV (at I <sub>n</sub> )
	≤ 1 kV (at 10 kA)
	≤ 0.9 kV (at 5 kA)
	≤ 0.8 kV (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) µs	≤ 1.5 kV
TOV behavior at U <sub>T</sub>	1200 V AC (200 ms / withstand mode)
Response time t <sub>A</sub>	≤ 100 ns

#### Environmental and real-life conditions

#### 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)
Permissible humidity (operation)	5 % 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)

#### Approvals

#### UL specifications

Maximum continuous operating voltage MCOV	350 V AC
Voltage protection rating VPR	1200 V
Nominal discharge current I <sub>n</sub>	20 kA
Mode of protection	N-G
Nominal voltage	240 V AC
Power distribution system	Single phase
Nominal frequency	50/60 Hz
SPD Type	2CA



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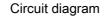
UL indicator/remote signaling	
Operating voltage	125 V AC
AC operating current	1 A AC
UL connection data	
Tightening torque	40 lb <sub>C</sub> in.
Conductor cross section AWG	3 2
Standards and regulations Standards/specifications	IEC 61643-11
Note	2011
EN 61643-11	
Standards/specifications	EN 61643-11
Note	2012
Mounting	
Mounting type	DIN rail: 35 mm



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### Drawings

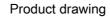






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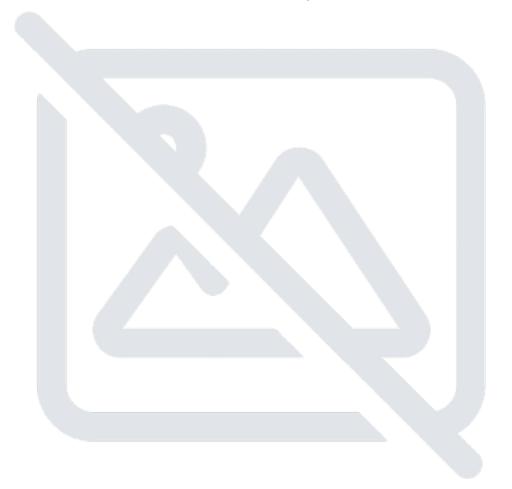




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Dimensional drawing





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#### Approvals

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**cUL Recognized**Approval ID: FILE E 330181



**UL Recognized** 

Approval ID: FILE E 330181



**IECEE CB Scheme** 

Approval ID: NL-58252



EAC

Approval ID: RU C-DE.\*09.B.00169

CCA

Approval ID: NTR-NL 7736



**KEMA-KEUR** 

Approval ID: 71-106983



**DNV GL** 

Approval ID: TAE000040S

**UAE-RoHS** 

Approval ID: 23-10-88709

cULus Recognized



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#### Classifications

#### **ECLASS**

	ECLASS-11.0	27130802		
	ECLASS-13.0	27171201		
ETIM				
	ETIM 9.0	EC000381		
UNSPSC				
	UNSPSC 21.0	39121600		



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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	003d58f9-b0df-4b07-8098-da6ca71887a8

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com