

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

- · 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
- · Maximum performance in a minimum amount of space: compact design with high discharge capacity at high nominal voltage

Commercial data

Item number	2905987
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1172
Catalog page	Page 36 (C-4-2019)
GTIN	4055626013268
Weight per piece (including packing)	417 g
Weight per piece (excluding packing)	397.61 g
Customs tariff number	85363030
Country of origin	DE



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Technical data

Product properties

IEC test classification	1/11
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN-C
	IT
Туре	DIN rail module, two-section, divisible
Product type	Combination type
Product family	SEC Family
Number of positions	1
Surge protection fault message	Optical, remote indicator contact
nsulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal frequency f _N	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
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



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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	95.2
Width	35.6 mm
Height	95.2 mm
Depth	74.5 mm
Horizontal pitch	2 Div.

Material specifications

Color (Male connector)	light grey (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 data	1
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Protective circuit

Mode of protection	L-N
	L-PE
	L-PEN
	N-PE (4+0)
Direction of action	L-N / L-PEN
Nominal voltage U _N	400 V AC (TN-C)
	400 V AC (IT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	440 V AC



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Rated load current I _L	125 A (< 55 °C)
Residual current I _{PE}	< 5 μΑ
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 $I_{\rm fi}$	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)
	≤ 2.7 kV (at I _{max})
	≤ 2 kV (at 17.5 kA)
	≤ 1.7 kV (at 7 kA)
	≤ 1.5 kV (at 3.5 kA)
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 V-type through wiring	125 A (gG)
Max. backup fuse with branch wiring	400 A (gG)

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

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Maximum continuous operating voltage MCOV	440 V AC	
Short-circuit current rating (SCCR)	25 kA	
Voltage protection rating VPR	1800 V	
Nominal discharge current I _n	20 kA	
Mode of protection	L-G	
Nominal voltage	400 V AC	
Rated load current I _L	50 A	
Power distribution system	Single phase	



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Nominal frequency	50/60 Hz		
SPD Type	2CA		
UL indicator/remote signaling			
Operating voltage	125 V AC		
AC operating current	1 A AC		
UL connection data			
Tightening torque	40 lb _f -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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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

REACh SVHC	N,N-dimethylacetamide 127-19-5
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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