

2905414

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Plug-in lightning current arrester, in accordance with Type 1/Class I, for 1-phase power supply networks with combined PE and N installed in one conductor (L1, PEN).

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	2905414
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1171
Catalog page	Page 39 (C-4-2019)
GTIN	4046356949460
Weight per piece (including packing)	403.8 g
Weight per piece (excluding packing)	404.9 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

Notes

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Note	Max. single impulse: 100 kA (8/20 µs)
	SPD according to AS/NZS 1768 Cat. C3

Product properties

IEC test classification	1/11
	I
	T1 / T2
	T1
EN type	T1 / T2
	T1
IEC power supply system	TN-C
	π
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

Insulation 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



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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 mm ² 16 mm ²
Remote fault indicator contact	
Connection method	Plug-in/screw connection via COMBICON

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	95.2
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 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	1
Housing material	PA 6.6-FR 20 % GF
	PBT-FR

Mechanical properties

Open side panel	No

Protective circuit

Mode of protection	L-PEN



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Direction of action	1L-PEN
Nominal voltage U _N	240 V AC (TN-C)
	240 V AC (TT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	350 V AC
Rated load current I _L	125 A (< 55 °C)
Nominal discharge current I _n (8/20) μs	25 kA
Maximum discharge current I _{max} (8/20) μs	50 kA
Impulse discharge current (10/350) μs, charge	12.5 As
Impulse discharge current (10/350) µs, specific energy	160 kJ/Ω
Impulse discharge current (10/350) μs, peak value l _{imp}	25 kA
Follow current interrupt rating I _{fi}	50 kA
Short-circuit current rating I _{SCCR}	50 kA
Voltage protection level U _p	≤ 1.5 kV
Residual voltage U _{res}	≤ 1.5 kV (at I _n)
Front of wave sparkover voltage at 6 kV (1.2/50) µs	≤ 1.5 kV
TOV behavior at U _T	415 V AC (5 s / withstand mode)
	457 V AC (120 min / withstand mode)
Response time t _A	≤ 100 ns
Max. backup fuse with V-type through wiring	125 A (gG)
Max. backup fuse with branch wiring	315 A (gG)
ditional technical data	
Short-circuit current rating I _{SCCR}	100 kA (264 V AC)
Follow current interrupt rating I _{fi}	100 kA (264 V AC)

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	350 V AC
Short-circuit current rating (SCCR)	50 kA
Voltage protection rating VPR	1500 V
Nominal discharge current I _n	20 kA



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Mode of protection	L-G
Nominal voltage	240 V AC
Rated load current I _L	50 A
Power distribution system	Single phase
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

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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