

FLT 100 N/PE-1.5 - Type 1+2 combined lightning current and surge arrester



2800303

<https://www.phoenixcontact.com/us/products/2800303>

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Lightning current arrester with encapsulated N-PE spark gap, single-channel. Housing width: 35 mm (2 pitches)

Commercial data

Item number	2800303
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL01
Product key	CL1131
GTIN	4046356535236
Weight per piece (including packing)	367.9 g
Weight per piece (excluding packing)	367.9 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Product properties

Product type	Combination type
IEC test classification	I
	T1
EN type	T1
IEC power supply system	TN-S
	TT
Type	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	none
Number of ports	One

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
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Connection data

Connection method	Screw terminal blocks
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	18 mm
Conductor cross-section flexible	2.5 mm ² ... 25 mm ²
Conductor cross-section rigid	2.5 mm ² ... 35 mm ²
Conductor cross-section AWG	13 ... 2

Dimensions

Dimensional drawing	
Width	35.6 mm
Height	90 mm
Depth	71.2 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	2 Div.

Material specifications

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Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6/PBT
Material group	I
Housing material	PBT

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Mode of protection	N-PE
Direction of action	N-PE
Nominal voltage U_N	240 V AC (TN - only N-PE) 240 V AC (TT - only N-PE)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	260 V AC
Rated load current I_L	125 A (< 55 °C)
Protective conductor current I_{PE}	≤ 0.01 mA
Nominal discharge current I_n (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) μs, peak value I_{imp}	100 kA
Follow current interrupt rating I_{fi}	100 A (260 V AC)
Voltage protection level U_p	≤ 1.5 kV
Residual voltage U_{res}	≤ 1.5 kV (at I_n) ≤ 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_T	1200 V AC (200 ms / withstand mode)
Response time t_A	≤ 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)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)

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Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)
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Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN 60664-1 / IEC 60664-1 / IEC 61643-11
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	DIN rail: 35 mm
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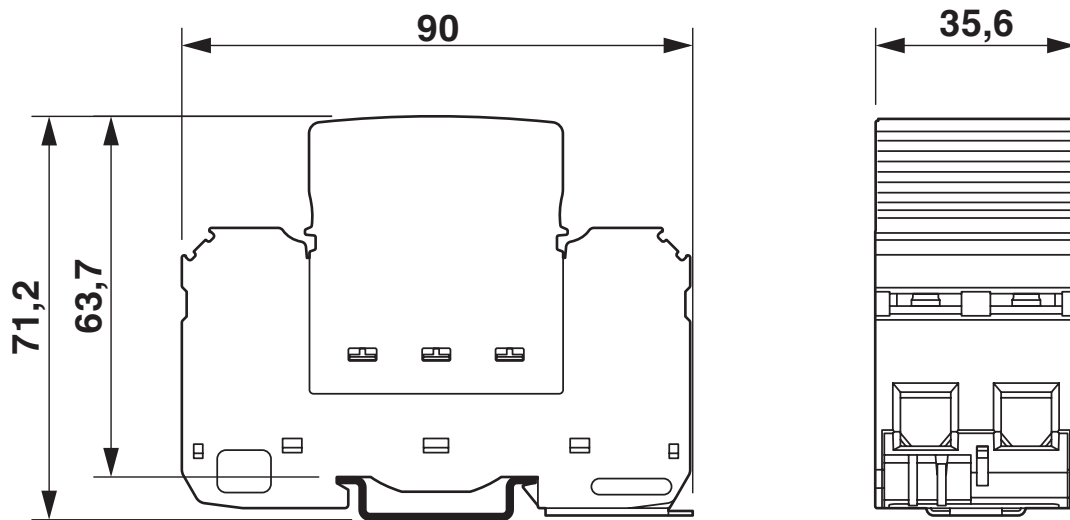
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Drawings

Dimensional drawing

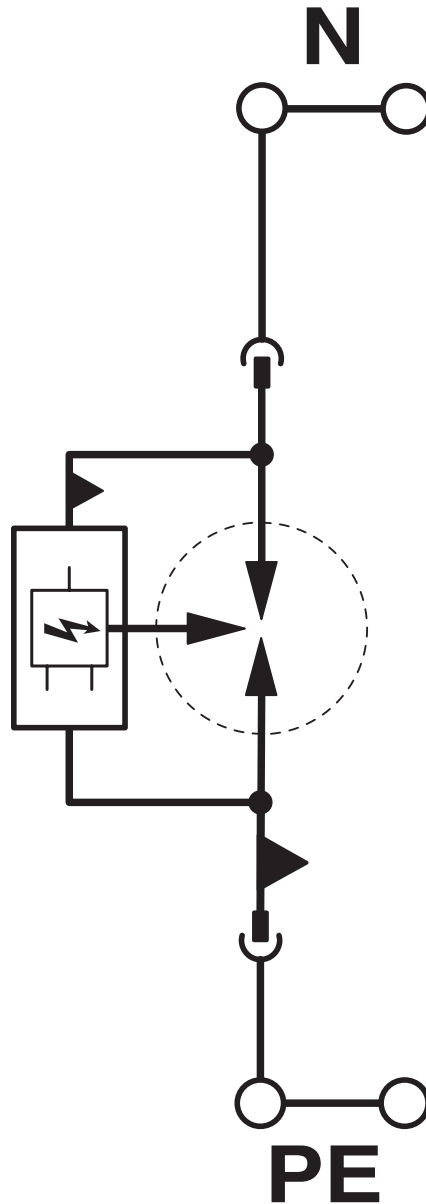


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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2800303>



IECEE CB Scheme

Approval ID: NL-58250

CCA

Approval ID: NTR-NL 7734



KEMA-KEUR

Approval ID: 71-108169

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Classifications

ECLASS

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	a8604cba-a4ed-40f6-85fa-826cea1052a5

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