

# 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

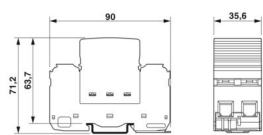
### Electrical properties

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 <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross-section rigid	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
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) $\mu$ s	100 kA
Impulse discharge current (10/350) $\mu$ s, charge	50 As
Impulse discharge current (10/350) $\mu$ s, specific energy	2500 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s, 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) $\mu$ s	≤ 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 $\pm$ X, $\pm$ Y, $\pm$ 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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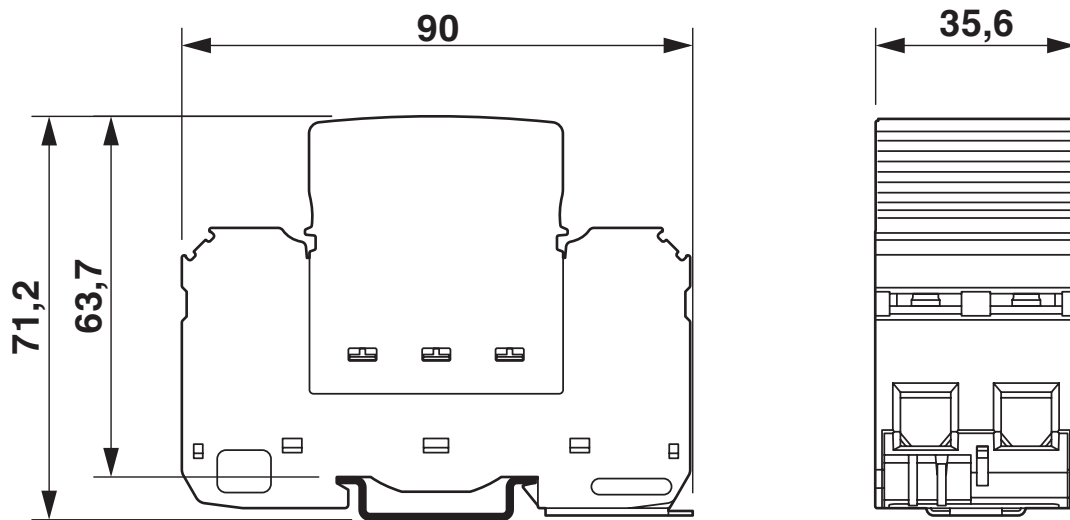
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## Drawings

Dimensional drawing

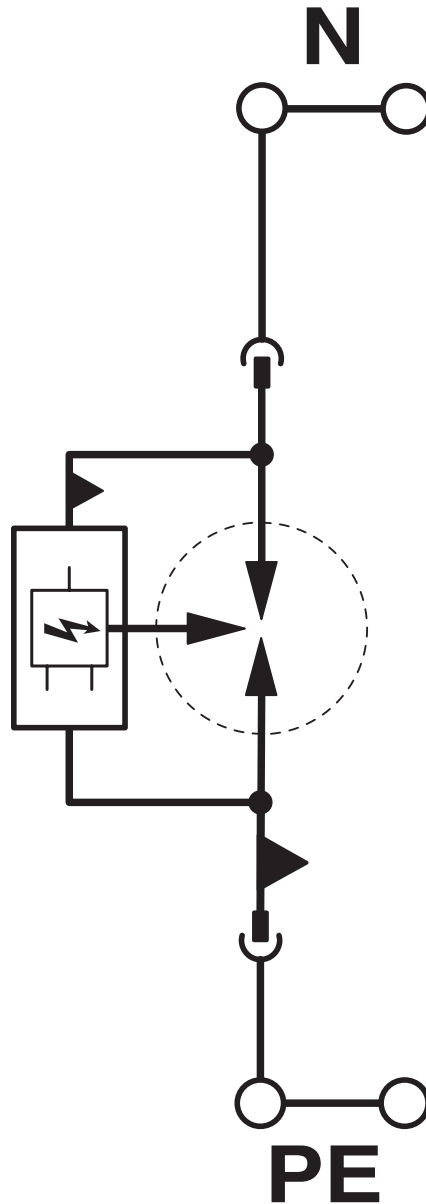


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Circuit diagram



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



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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
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### ETIM

ETIM 9.0	EC000381
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### 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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