

# FLT 100 N/PE CTRL-3.0 - Type 1+2 combined lightning current and surge arrester



2905834

<https://www.phoenixcontact.com/us/products/2905834>

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Lightning current arrester with encapsulated N-PE spark gap and ignition electronics, 1-channel. Voltage protection level: 3 kV. Housing width: 35 mm (2 pitches)

## Commercial data

Item number	2905834
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL1131
GTIN	4046356998925
Weight per piece (including packing)	313.2 g
Weight per piece (excluding packing)	292 g
Country of origin	IN

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## Technical data

### Notes

#### General

Note	100% lightning front-of-wave sparkover voltage (1.2/50) $\mu\text{s} \leq 1.5$ kV
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### Product properties

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

#### Insulation characteristics

Overvoltage category	III
Pollution degree	2

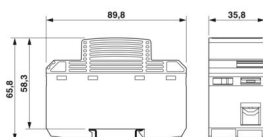
### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
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### Connection data

Connection method	Screw terminal blocks
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm
Conductor cross-section flexible	35 mm <sup>2</sup>
Conductor cross-section rigid	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Conductor cross-section AWG	6 ... 1

### Dimensions

Dimensional drawing	
Width	35.8 mm

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Height	89.8 mm
Depth	65.8 mm
Horizontal pitch	2 Div.

## Material specifications

Color	black (RAL 9005) gray (RAL 7042)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	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 $U_N$	230/400 V AC (TN - only N-PE) 230/400 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 $I_L$	80 A
Protective conductor current $I_{PE}$	$\leq 0.1$ mA
Standby power consumption $P_C$	$\leq 26$ mVA
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 $U_p$	$\leq 3$ kV
Front-of-wave sparkover voltage at 6 kV (1.2/50) $\mu$ s	$\leq 3$ kV
TOV behavior at $U_T$	1200 V AC (200 ms / withstand mode)
Response time $t_A$	$\leq 100$ ns

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

## Standards and regulations

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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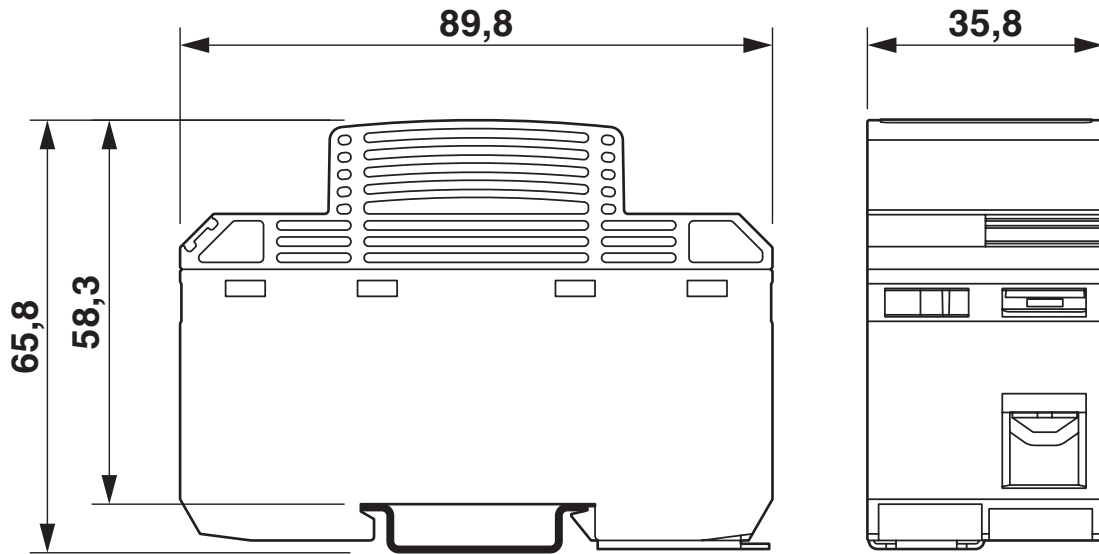
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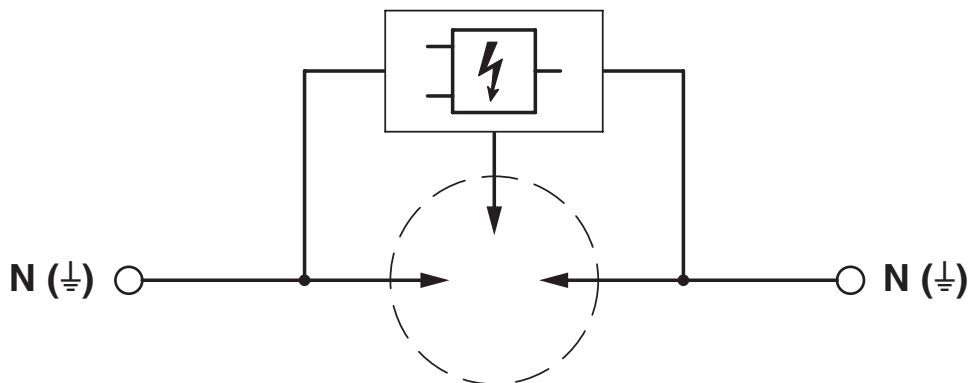
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## Drawings

Dimensional drawing



Circuit diagram



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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	7(c)-I

### 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.)	No substance above 0.1 wt%
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