

# FLT 50 N/PE CTRL-4.0 - Type 1+2 combined lightning current and surge arrester



2801637

<https://www.phoenixcontact.com/us/products/2801637>

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Lightning current arrester with encapsulated N-PE spark gap and ignition electronics, 1-channel.  
Voltage protection level: 4 kV Housing width: 17.5 mm (1 pitch)

## Commercial data

Item number	2801637
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	NULL
Product key	CL1122
GTIN	4046356909471
Weight per piece (including packing)	188.3 g
Weight per piece (excluding packing)	188 g
Customs tariff number	85363030
Country of origin	IN

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## Technical data

### Notes

#### General

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

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

#### Insulation characteristics

Overvoltage category	III
Pollution degree	2

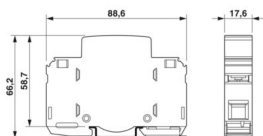
### Electrical properties

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	14.5 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	6 ... 2

### Dimensions

Dimensional drawing	
Width	17.6 mm
Height	88.6 mm
Depth	66.2 mm

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Horizontal pitch	1 Div.
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## Material specifications

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

## 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 voltage $U_C$	260 V AC
Rated load current $I_L$	80 A
Residual current $I_{PE}$	$\leq 0.5$ mA
Standby power consumption $P_C$	$\leq 130.00$ mVA
Nominal discharge current $I_n$ (8/20) $\mu$ s	50 kA
Impulse discharge current (10/350) $\mu$ s, charge	25 As
Impulse discharge current (10/350) $\mu$ s, specific energy	625 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	50 kA
Follow current interrupt rating $I_{fi}$	100 A (260 V AC)
Voltage protection level $U_p$	$\leq 4$ kV
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s	$\leq 4$ 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
Altitude	$\leq 2000$ m (amsl)
Permissible humidity (operation)	5 % ... 95 %

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## 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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## Classifications

### ECLASS

ECLASS-11.0	27130802
ECLASS-13.0	27171201

### ETIM

ETIM 9.0	EC000381
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### 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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