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Especialistas en Automatización

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# Lightning arrester type 1 - FLT 100 N/PE-1.5 - 2800303

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

## Why buy this product

- With ignition electronics
- Direct parallel connection with type 2 arresters supported
- Encapsulated and triggered



## Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 535236

## Technical data

### Dimensions

Height	90 mm
Width	35.6 mm
Depth	71.2 mm
Horizontal pitch	2 Div.

### 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 (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (half sinus / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)

### General

Standards/specifications	IEC 61643-11 2011
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# Lightning arrester type 1 - FLT 100 N/PE-1.5 - 2800303

## Technical data

### General

	EN 61643-11 2012
IEC test classification	I
	T1
EN type	T1
IEC power supply system	TN-S
	TT
SPD design	Voltage-switching type
Mode of protection	N-PE
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PBT
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	None

### Protective circuit

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 voltage $U_C$	260 V AC
Rated load current $I_L$	125 A (< 55 °C)
Residual current $I_{PE}$	≤ 0.01 mA
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

### Connection data

Connection method	Screw terminal blocks
Conductor cross section flexible min.	2.5 mm <sup>2</sup>
Conductor cross section flexible max.	25 mm <sup>2</sup>

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## Technical data

### Connection data

Conductor cross section solid min.	2.5 mm <sup>2</sup>
Conductor cross section solid max.	35 mm <sup>2</sup>
Conductor cross section AWG	13 ... 2
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	18 mm

### UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (N-G)	264 V AC
Mode of protection	N-G
Power distribution system	1S
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (N-G)	1080 V
Nominal discharge current I <sub>n</sub> (N-G)	20 kA
Follow current (N-G)	200 A (264 V AC)

### UL connection data

Conductor cross section AWG	12 ... 2
Tightening torque	40 lb <sub>r</sub> -in.

## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201
eCl@ss 8.0	27130802
eCl@ss 9.0	27130802

### ETIM

ETIM 2.0	EC000381
ETIM 3.0	EC000381
ETIM 4.0	EC000381
ETIM 5.0	EC000381

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610

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## Classifications

### UNSPSC

UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

#### Approvals

UL Recognized / KEMA-KEUR / cUL Recognized / CCA / IECCEB Scheme / EAC / cULus Recognized

#### Ex Approvals

#### Approvals submitted

## Approval details

UL Recognized

KEMA-KEUR

cUL Recognized

CCA

IECEE CB Scheme

EAC

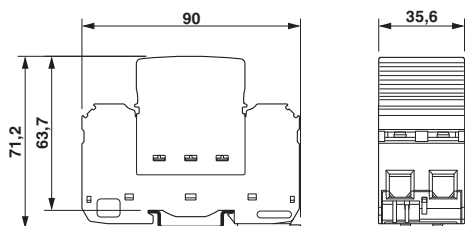
# Lightning arrester type 1 - FLT 100 N/PE-1.5 - 2800303

## Approvals

cULus Recognized cULus

## Drawings

Dimensional drawing



Circuit diagram

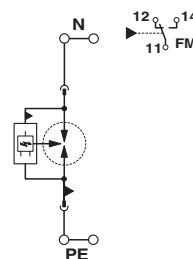


Illustration shows variant with remote indication contact

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Lightning arrester with encapsulated N-PE spark gap, single-channel. Housing width: 35 mm (2 pitches)	2800303	FLT 100 N/ PE-1.5	<a href="#">Buy on EAN</a>