

## 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)

### Product Features

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



### Key commercial data

Packing unit	1 pc
Custom tariff number	85363010
Country of origin	Germany

### 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)

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## Technical data

### Ambient conditions

Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)
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### General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	I
	T1
EN type	T1
IEC power supply system	TN-S
	TT
Lightning protection class	I
SPD design	Voltage-switching type
Mode of protection	N-PE
Mounting type	DIN rail: 35 mm
Color	black
Housing material	PBT
Pollution degree	2
Inflammability class 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 $U_C$ (N-PE)	260 V AC
Rated load current $I_L$	125 A (< 55 °C)
Residual current $I_{PE}$	$\leq 0.01$ mA
Impulse discharge current (10/350) $\mu$ s (N-PE), charge	50 As
Impulse discharge current (10/350) $\mu$ s (N-PE), specific energy	2500 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s (N-PE), peak current value $I_{imp}$	100 kA
Follow current interrupt rating $I_{fi}$ (N-PE)	100 A (260 V AC)
Voltage protection level $U_p$ (N-PE)	$\leq 1.5$ kV
Residual voltage $U_{res}$ (N-PE)	$\leq 1.5$ kV (at $I_n$ )
	$\leq 1$ kV (at 10 kA)
	$\leq 0.9$ kV (at 5 kA)
	$\leq 0.8$ kV (at 3 kA)

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## Technical data

### Protective circuit

Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s (N-PE)	$\leq 1.5$ kV
TOV behavior at $U_T$ (N-PE)	1200 V AC (200 ms / withstand mode)
Response time $t_A$ (N-PE)	$\leq 100$ ns

### Connection data

Connection method	Screw terminal blocks
Conductor cross section stranded min.	2.5 mm <sup>2</sup>
Conductor cross section stranded max.	25 mm <sup>2</sup>
Conductor cross section solid min.	2.5 mm <sup>2</sup>
Conductor cross section solid max.	35 mm <sup>2</sup>
AWG conductor cross section	13 ... 2
	12 ... 2 (UL)
Screw thread	M5
Tightening torque	4.5 Nm
	40 lb <sub>f</sub> -in. (UL)
Stripping length	18 mm

### NEMA/UL protective circuit

UL class	Type 4 SPD for Type 2 applications
Maximum continuous operating voltage MCOV (N-G)	264 V AC
Mode of protection	N-G
Power distribution system	1S
Nominal frequency	50/60 Hz
Voltage protection rating VPR (N-G)	1.5 kV
Nominal discharge current $I_n$ (N-G)	20 kA
Follow current (N-G)	200 A (264 V AC)

## 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	27140201

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## Classifications

### 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
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

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#### Approvals

UL Recognized / KEMA-KEUR / cUL Recognized / GOST / CCA / IECCE CB Scheme / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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## Approval details

UL Recognized

KEMA-KEUR

cUL Recognized

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## Approvals

GOST

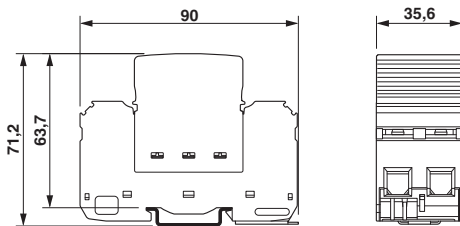
CCA

IECEE CB Scheme

cULus Recognized

## Drawings

Dimensioned drawing



Circuit diagram

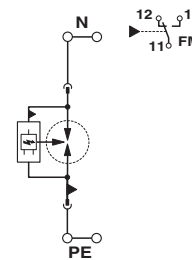


Illustration shows variant with remote indication contact