

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 pc
GTIN	 4 046356 535236
Weight per Piece (excluding packing)	399.62 g
Custom tariff number	85363010
Country of origin	Germany
Note	Made to Order (non-returnable)

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 %

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

Technical data

Ambient conditions

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
	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}	≤ 0.01 mA
Impulse discharge current (10/350) μs (N-PE), charge	50 As
Impulse discharge current (10/350) μs (N-PE), specific energy	2500 kJ/Ω
Impulse discharge current (10/350) μs (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)	≤ 1.5 kV
Residual voltage U_{res} (N-PE)	≤ 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 (N-PE)	≤ 1.5 kV
TOV behavior at U_T (N-PE)	1200 V AC (200 ms / withstand mode)

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

Technical data

Protective circuit

Response time t_A (N-PE)	≤ 100 ns
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Connection data

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

UL specifications

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	27130802

ETIM

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

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

Classifications

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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UL Recognized / KEMA-KEUR / cUL Recognized / CCA / IECCE CB 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  US

Accessories

Accessories

Bridge

Wiring bridge - MPB 18/1- 8 BU - 2858470



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos., color: Blue

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

Labeled device marker

Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, Horizontal: L1, L2, L3, N, GND, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

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

Accessories

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, Horizontal: Grounding symbol, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Spare parts

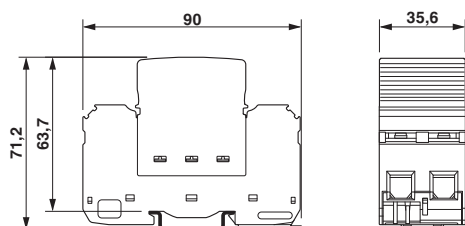
Type 1 surge protection plug - FLT 100 N/PE-1.5-ST - 2800304



Type 1/Class I/B arrester (lightning arrester) replacement plug for N-PE path.

Drawings

Dimensioned drawing



Circuit diagram

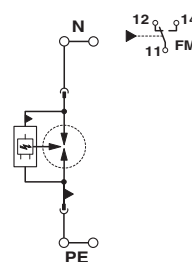


Illustration shows variant with remote indication contact