

## Lightning arrester type 1 - FLT 50 N/PE CTRL-1.5 - 2817453

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Lightning current arrester with encapsulated N-PE spark gap and ignition electronics, 1-channel. Protection level 1.5 kV. Housing width: 17.5 mm (1 Div.)



### Key commercial data

Packing unit	1 pc
GTIN	 4 017918 810740
Weight per Piece (excluding packing)	170.33 g
Custom tariff number	85363030
Country of origin	Germany
Note	Made to Order (non-returnable)

### Technical data

#### Dimensions

Height	89.8 mm
Width	17.7 mm
Depth	65.5 mm
Horizontal pitch	1 Div.

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Permissible humidity (operation)	≤ 95 %

#### General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1
	VDE 0675-6

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## Technical data

### General

	IEC 61643-1
Mounting type	DIN rail: 35 mm
Type	Rail-mountable module, one-piece
Surge protection fault message	None
Direction of action	N-PE

### Protective circuit

IEC test classification	I
	T1
EN type	T1
Nominal voltage $U_N$	230 V AC
Maximum continuous operating voltage $U_C$ (N-PE)	260 V AC
Nominal frequency $f_N$	50 Hz
	60 Hz
Residual current $I_{PE}$	$\leq 20 \mu A$
Operating effective current $I_C$ at $U_N$	$\leq 20 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$	50 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (N-PE)	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
100% lightning impulse sparkover voltage (1.2/50) $\mu s$	$\leq 1.5$ kV
Voltage protection level $U_p$	$\leq 1.5$ kV
Voltage protection level $U_p$ (N-PE)	$\leq 1.5$ kV
Response time	$\leq 100$ ns
Response time (N-PE)	$\leq 100$ ns
Short-circuit current self-quenching	500 A (260 V AC)
Follow current quenching capacity $I_f$ (N-PE)	500 A

### Connection, protective circuit

Connection method	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	14.5 mm
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	25 mm <sup>2</sup>
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	35 mm <sup>2</sup>

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## Technical data

### Connection, protective circuit

Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	2

### Standards and Regulations

Standards/regulations	IEC 61643-1 1998
	E DIN VDE 0675-6 1989
	E DIN VDE 0675-6/A1 1996
	E DIN VDE 0675-6/A2 1996
	IEC 61312-1 1995

## 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

### 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

EAC

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## Approvals

Ex Approvals

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Approvals submitted

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## Approval details

EAC

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## Accessories

Accessories

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

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## 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

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## Labeled device marker

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

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## Accessories

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

## Marker pen

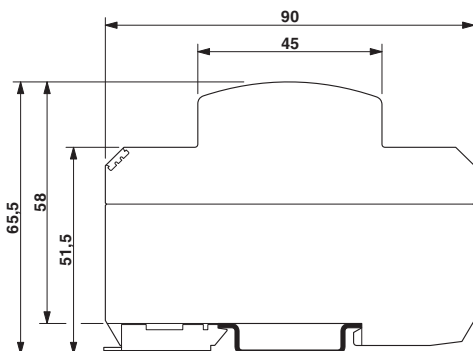
Marker pen - B-STIFT - 1051993



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

## Drawings

Dimensioned drawing



Circuit diagram

