

## 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
Weight per Piece (excluding packing)	190.0 GRM
Custom tariff number	85363030
Country of origin	Germany

### 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	625.00 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>

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## Technical data

### Connection, protective circuit

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>
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	27140201

### 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

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## Approvals

Approvals

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Approvals

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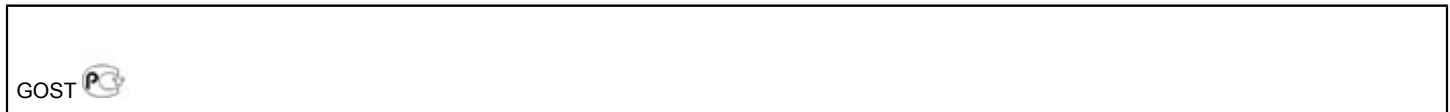
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Approvals submitted

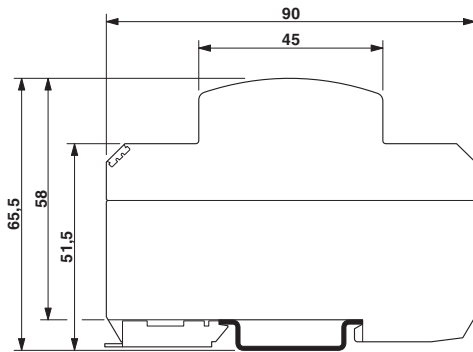
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## Approval details



## Drawings

Dimensioned drawing



Circuit diagram

