

## Lightning arrester type 1 - FLT 50 N/PE - 2800108

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Lightning current arrester with encapsulated N-PE spark gap, 1-channel. Housing width: 17.5 mm (1 Div.)



### Key commercial data

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

### Technical data

#### Dimensions

Height	90 mm
Width	17.6 mm
Depth	65.7 mm
Horizontal pitch	1 Div.

#### Ambient conditions

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

#### General

IEC power supply system	TT
	TN-S
Housing material	PA-GF
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	EN 60664-1
	EN 61643-11

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## Technical data

### General

Mounting type	DIN rail: 35 mm
Type	Rail-mountable module, one-piece
Number of positions	1
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 (400 V AC)
Maximum continuous operating voltage $U_C$	260 V AC
Maximum continuous operating voltage $U_C$ (N-PE)	260 V AC
$U_T$ (TOV-proof)	1200 V AC (200 ms)
Nominal frequency $f_N$	50 Hz
	60 Hz
Residual current $I_{PE}$	$\leq 0.1$ mA
Standby power consumption $P_C$	$\leq 26$ mVA
Max. discharge current $I_{max}$ (8/20) $\mu$ s	50 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (N-PE)	50 kA
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
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s	$\leq 5$ kV
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s (N-PE)	$\leq 5$ kV
Voltage protection level $U_p$ (N-PE)	$\leq 5$ kV
Response time	$\leq 100$ ns
Response time (N-PE)	$\leq 100$ ns
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

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## Technical data

### Connection, protective circuit

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

### Standards and Regulations

Standards/regulations	IEC 61643-1 2005
	DIN EN 61643-11 2002
	DIN EN 61643-11/A11 2007

## 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

KEMA-KEUR / GOST / IEC CB Scheme

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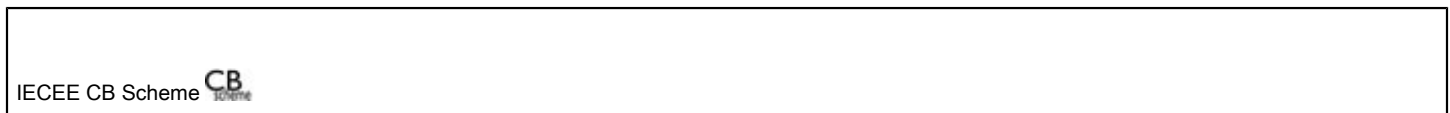
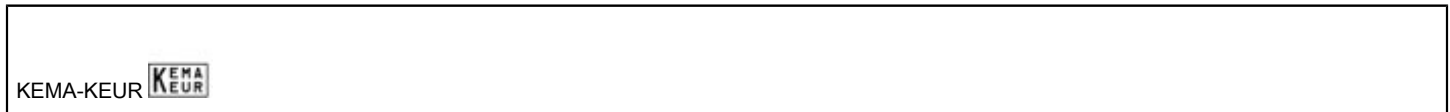
Ex Approvals

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Approvals submitted

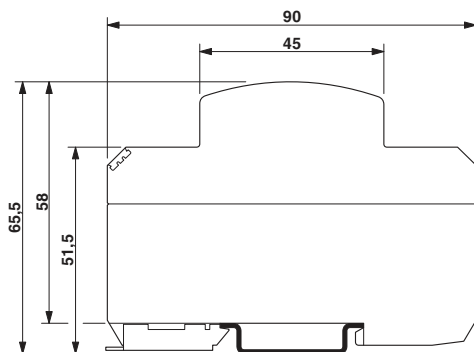
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## Approval details



## Drawings

Dimensioned drawing



Circuit diagram

