

# Lightning arrester type 1 - FLT 60-400 - 2800107

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Type 1 / Class I / B arrester (lightning current arrester) with arc chopping spark gap, 1-channel. Housing width: 35 mm (2 div.)

## Product Features

- High discharge capacity
- Single-channel



## Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	274.4 g
Custom tariff number	85363010
Country of origin	Germany

## Technical data

### Dimensions

Height	90 mm
Width	35.5 mm
Depth	65.5 mm
Horizontal pitch	2 Div.

### Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

### General

IEC power supply system	TN-S
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## Technical data

### General

	TN-C
	TT
Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	black
Standards for clearances and creepage distances	EN 60664-1
	EN 61643-11
Mounting type	DIN rail: 35 mm
Type	Rail-mountable module, one-piece
Number of positions	1
Surge protection fault message	None
Direction of action	1L-N/PE

### Protective circuit

IEC test classification	I
	T1
EN type	T1
Nominal voltage $U_N$	230/400 V AC (TN)
Maximum continuous operating voltage $U_C$ (L-PEN)	400 V AC
$U_T$ (TOV-proof)	400 V (5 sec.)
TOV behavior at $U_T$	<p></p>
Nominal frequency $f_N$	50 Hz (60 Hz)
Rated load current $I_L$	80 A
Residual current $I_{PE}$	< 0.1 mA
Standby power consumption $P_C$	≤ 40 mVA
Nominal discharge current $I_n$ (8/20) μs (L-PEN)	60 kA
Front of wave sparkover voltage at 6 kV (1.2/50) μs	≤ 5 kV
Voltage protection level $U_p$ (L-PEN)	≤ 5 kV
Response time $t_A$ (L-PE)	≤ 100 ns
Max. backup fuse with branch wiring	500 A AC (gG)
Max. backup fuse with V-type through wiring	80 A AC (gG)
Short-circuit resistance $I_p$ with max. backup fuse (effective)	25 kA
Short-circuit current rating $I_{SCCR}$	2.5 kA
Follow current quenching capacity $I_{fi}$ (L-PEN)	2.5 kA

### Connection, protective circuit

Connection method	Screw connection
Connection type IN	Biconnect screw terminal block

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## Technical data

### Connection, protective circuit

Connection type OUT	Biconnect screw terminal block
Screw thread	M6
Tightening torque	8 Nm
Stripping length	17 mm
Conductor cross section flexible min.	16 mm <sup>2</sup>
Conductor cross section flexible max.	35 mm <sup>2</sup>
Conductor cross section solid min.	10 mm <sup>2</sup>
Conductor cross section solid max.	50 mm <sup>2</sup>
Conductor cross section AWG	6 ... 1

### Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

## 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

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## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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Approvals submitted

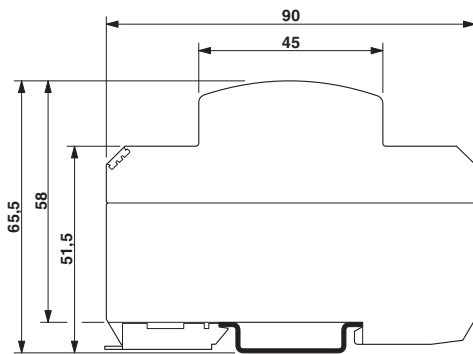
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## Approval details

EAC
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## Drawings

Dimensional drawing



Circuit diagram

