

# Combination type 1/2 protective device - 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.)

## Why buy this product

- High discharge capacity
- 1-channel

## Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 479936
GTIN	4046356479936

## 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 test classification	I
	T1

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## Technical data

### General

EN type	T1
IEC power supply system	TN-S
	TN-C
	TT
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	black
Housing material	PA 6.6
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, one-piece
Number of positions	1
Surge protection fault message	none

### Protective circuit

Nominal voltage $U_N$	230/400 V AC (TN)
	230/400 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$ (L-PEN)	400 V AC
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) $\mu$ s (L-PEN)	60 kA
Impulse discharge current (10/350) $\mu$ s (L-PEN), charge	30 As
Impulse discharge current (10/350) $\mu$ s (L-PEN), specific energy	900 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s (L-PEN), peak current value $I_{imp}$	60 kA
Follow current interrupt rating $I_{fi}$ (L-PEN)	2.5 kA
Short-circuit current rating $I_{SCCR}$	2.5 kA
Voltage protection level $U_p$ (L-PEN)	≤ 5 kV
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s	≤ 5 kV
TOV behavior at $U_T$ (L-PEN)	440 V AC (5 s / withstand mode)
	440 V AC (120 min / withstand mode)
Response time $t_A$ (L-PEN)	≤ 100 ns
Max. backup fuse with V-type through wiring	80 A AC (gG)
Max. backup fuse with branch wiring	500 A AC (gG)

### Connection data

Connection method	Screw connection
Screw thread	M6
Tightening torque	8 Nm
Stripping length	17 mm

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### Connection data

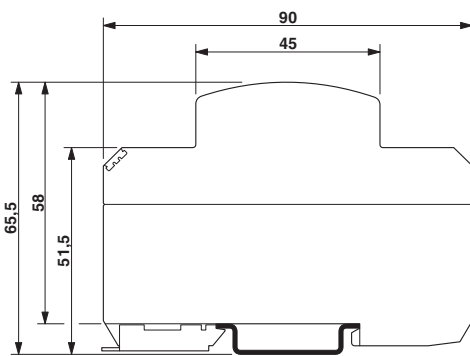
Conductor cross section flexible min.	16 mm <sup>2</sup>
Conductor cross section flexible max.	35 mm <sup>2</sup>
Conductor cross section solid min.	10 mm <sup>2</sup>
Conductor cross section solid max.	50 mm <sup>2</sup>
Conductor cross section AWG	6 ... 1

### Standards and Regulations

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

## Drawings

Dimensional drawing



Circuit diagram



## Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		RU C- DE.A*30.B01561
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