

# FLT 60-400 - Type 1+2 combined lightning current and surge arrester



2800107

<https://www.phoenixcontact.com/us/products/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.)

## Your advantages

- High discharge capacity

## Commercial data

Item number	2800107
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1131
GTIN	4046356479936
Weight per piece (including packing)	272 g
Weight per piece (excluding packing)	254.7 g
Customs tariff number	85363010
Country of origin	IN

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## Technical data

### Product properties

Product type	Combination type
IEC test classification	I
	T1
EN type	T1
IEC power supply system	TN-S
	TN-C
	TT
Type	DIN rail module, one-piece
Number of positions	1
Surge protection fault message	none
Number of ports	One

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
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### Connection data

Connection method	Screw connection
Screw thread	M6
Tightening torque	8 Nm
Stripping length	17 mm
Conductor cross-section flexible	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section rigid	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Conductor cross-section AWG	6 ... 1

### Dimensions

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

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## Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6
Material group	I
Housing material	PA 6.6

## Mechanical properties

### Mechanical data

Open side panel	No
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## Protective circuit

Mode of protection	L-PEN
Direction of action	1L-N/PE
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 $U_C$	400 V AC
Rated load current $I_L$	80 A
Protective conductor current $I_{PE}$	< 0.1 mA
Standby power consumption $P_C$	≤ 40 mVA
Nominal discharge current $I_n$ (8/20) $\mu$ s	60 kA
Impulse discharge current (10/350) $\mu$ s, charge	30 As
Impulse discharge current (10/350) $\mu$ s, specific energy	900 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	60 kA
Follow current interrupt rating $I_{fi}$	2.5 kA
Short-circuit current rating $I_{SCCR}$	2.5 kA
Voltage protection level $U_p$	≤ 5 kV
Front-of-wave sparkover voltage at 6 kV (1.2/50) $\mu$ s	≤ 5 kV
TOV behavior at $U_T$	440 V AC (5 s / withstand mode) 440 V AC (120 min / withstand mode)
Response time $t_A$	≤ 100 ns
Max. backup fuse with V-type through wiring	80 A AC (gG)
Max. backup fuse with branch wiring	500 A AC (gG)

## Environmental and real-life conditions

### 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

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Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

## Mounting

Mounting type	DIN rail: 35 mm
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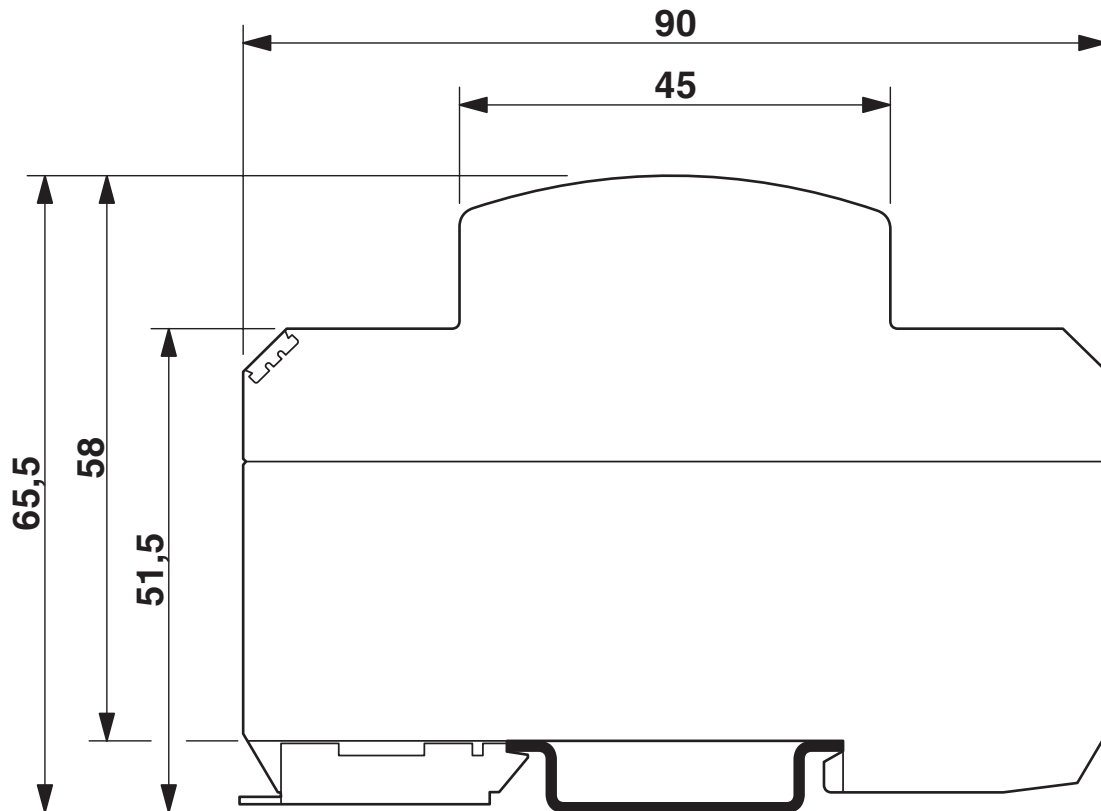


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## Drawings

Dimensional drawing



Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0

27171201

### ETIM

ETIM 9.0

EC000381

### UNSPSC

UNSPSC 21.0

39121600

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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