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

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

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

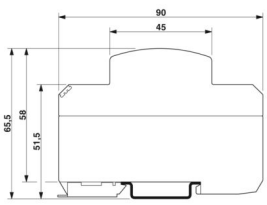
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)

Connection data

Connection method	Screw connection
Screw thread	M6
Tightening torque	8 Nm
Stripping length	17 mm
Conductor cross-section flexible	16 mm² ... 35 mm²
Conductor cross-section rigid	10 mm² ... 50 mm²
Conductor cross-section AWG	6 ... 1

Dimensions

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

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

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) µs	60 kA
Impulse discharge current (10/350) µs, charge	30 As
Impulse discharge current (10/350) µs, specific energy	900 kJ/Ω
Impulse discharge current (10/350) µs, 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) µs	≤ 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

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

Standards and regulations

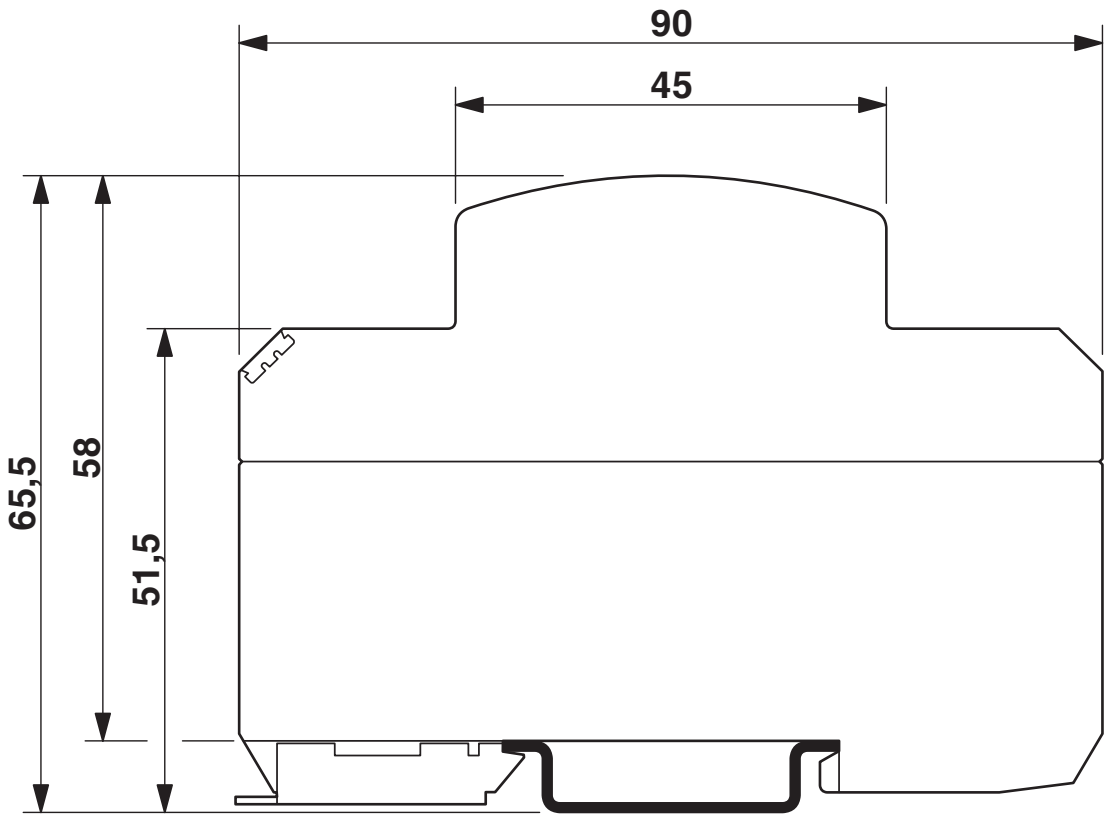
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	DIN rail: 35 mm

Drawings

Dimensional drawing



Circuit diagram



Classifications

ECLASS

ECLASS-13.0	27171201

ETIM

ETIM 9.0	EC000381

UNSPSC

UNSPSC 21.0	39121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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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