TMC 1 F1 200 0,4A - Thermal-magnetic device circuit breaker

0914219

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Thermal-magnetic circuit breaker, 1-pos., fast blow, 1 N/C contact, with universal foot for mounting on NS 32 or NS 35

Commercial data

Item number	0914219
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL04
Product key	CLA121
GTIN	4017918008895
Weight per piece (including packing)	70.8 g
Weight per piece (excluding packing)	64.21 g
Customs tariff number	85362010
Country of origin	DE

Technical data

Product properties

Product type	Thermomagnetic device circuit breakers
Product family	TMC
Type	DIN rail module, one-piece
Number of positions	1
Number of connections	4
Number of rows	2

Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Electrical properties

Fuse type	Automatic device

General

Rated voltage	65 V DC
Rated current I_N	0.4 A
Rated surge voltage	2.5 kV
Insulation resistance R_{iso}	> 100 MΩ (500 V DC)
Auxiliary circuit	240 V AC / 1 A (Low-induction)
	65 V AC / 1 A (Low-induction)
Tripping method	TM (thermal-magnetic)
Device resistance	9.2 Ω
Rated short-circuit switching capacity I_{cn}	2500 A (32 V DC)
Short-circuit switching capacity	2000 A (UL 1077: 65 V DC)
Dielectric strength	3000 V AC (Actuation area)
	3000 V AC (Main to auxiliary circuit)
Switching cycles, max.	10000 (At 1 x I_n, inductive)
Fuse	F1 (fast blow)
Contact switching type	1 N/C contact

Connection data

Main contact

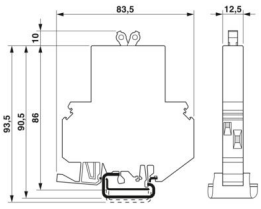
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	12 mm
Internal cylindrical gage	A3
Conductor cross-section rigid	0.2 mm² ... 6 mm²
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 4 mm²

Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 2.5 mm²
2 conductors with same cross section, rigid	0.2 mm² ... 0.75 mm²
2 conductors with same cross section, flexible	0.2 mm² ... 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² ... 1 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 2.5 mm²
Nominal current	0.4 A

Auxiliary contact

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	12 mm
Internal cylindrical gage	A1
Conductor cross-section rigid	0.2 mm² ... 2.5 mm²
Cross section AWG	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 1.5 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 2.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 1.5 mm²
2 conductors with same cross section, rigid	0.2 m² ... 0.75 m²
2 conductors with same cross section, flexible	0.2 m² ... 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² ... 0.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 0.75 mm²

Dimensions

Dimensional drawing	
Width	12.5 mm
Height	82.5 mm
Depth	96 mm

Material specifications

Flammability rating according to UL 94	V-2
Insulating material group	II
Insulating material	PA66

Mechanical properties

Mechanical data

Open side panel	No

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP30 (Actuation area)
	IP20 (Connection area)
Ambient temperature (operation)	-30 °C ... 60 °C
Humidity test	240 h, 95 % RH, 40 °C

Standards and regulations

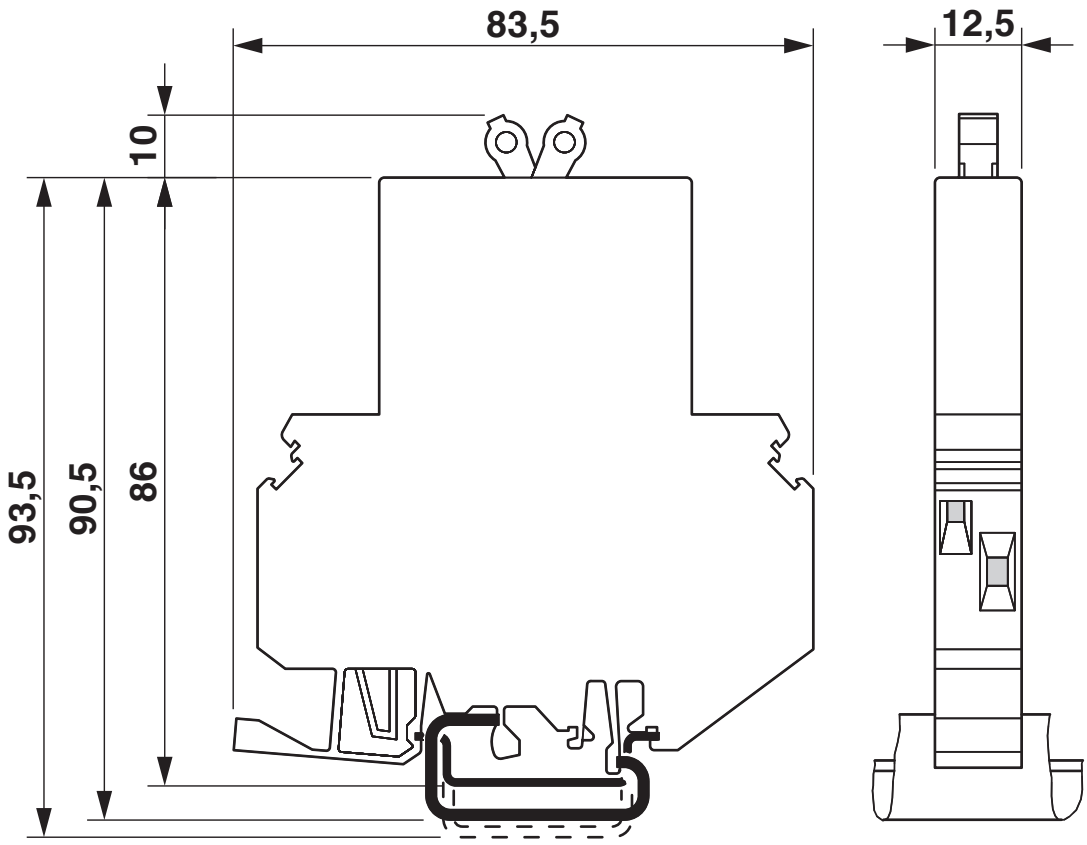
Standards/specifications	EN 60934
Standards/specifications	UL 1077

Mounting

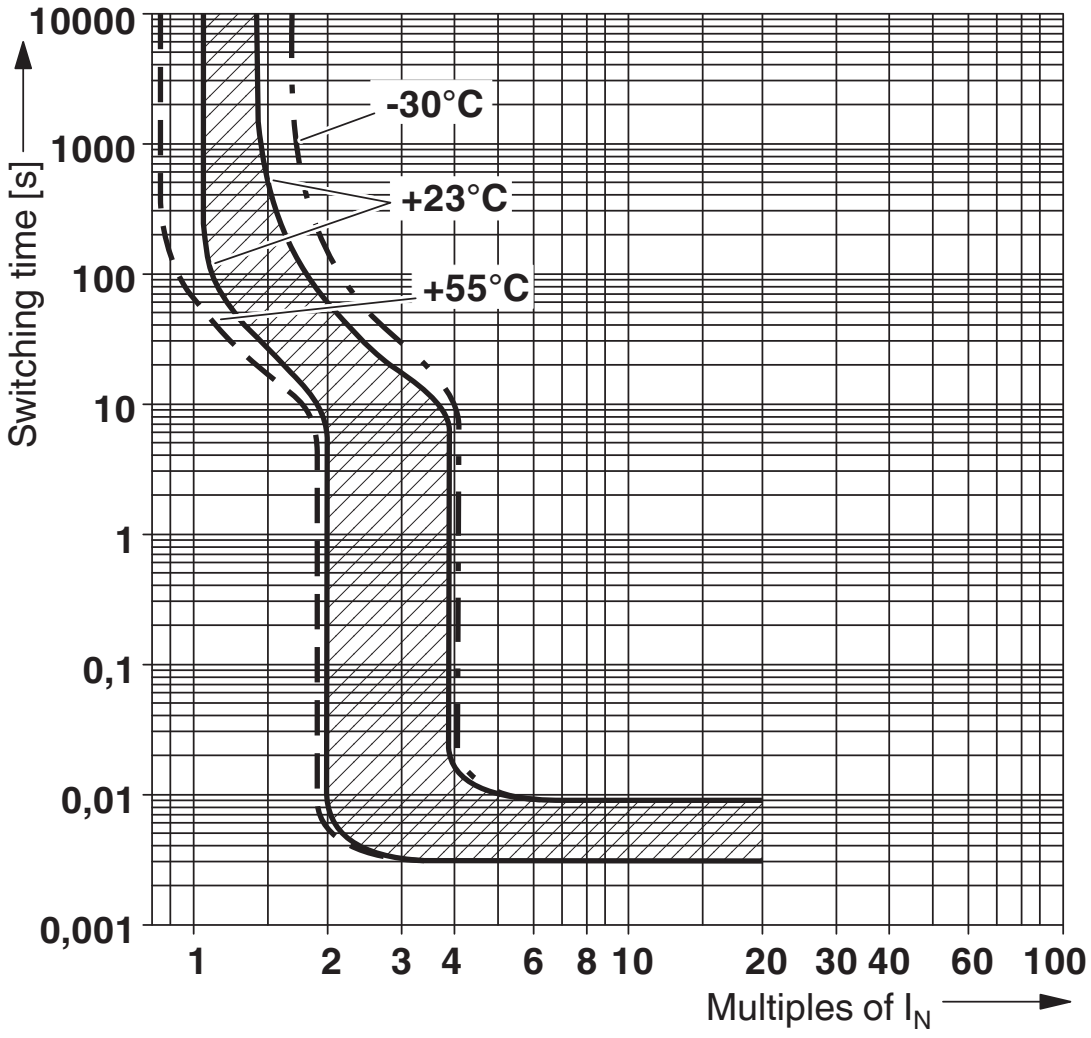
Mounting type	DIN rail: 35 mm

Drawings

Dimensional drawing



Diagram


10000
1000
100
10
1
0,1
0,01
0,001
Switching time [s]
-30°C
+23°C
+55°C
1
2
3
4
6
8
10
20
30
40
60
100
Multiples of I_N

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

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

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