

# TMC 1 M1 100 0,4A - Thermal-magnetic device circuit breaker



0914390

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

## Commercial data

Item number	0914390
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL04
Product key	CLA121
GTIN	4017918009076
Weight per piece (including packing)	65.43 g
Weight per piece (excluding packing)	65.43 g
Customs tariff number	85362010
Country of origin	DE

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## 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
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### General

Rated voltage	250 V AC
	65 V DC
Rated current $I_N$	0.4 A
Rated surge voltage	2.5 kV
Insulation resistance $R_{iso}$	> 100 M $\Omega$ (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	6.6 $\Omega$
Rated short-circuit switching capacity $I_{cn}$	400 A
	2500 A (32 V DC)
Short-circuit switching capacity	5000 A (UL 1077: 277 V AC)
	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 $1 \times I_N$ , inductive)
Fuse	M1 (normal blow)
Contact switching type	1 N/O 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

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Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with same cross section, rigid	0.2 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.2 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 1 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Nominal current	0.4 A
Nominal voltage	250 V AC
	65 V DC

## 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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross section AWG	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, rigid	0.2 m <sup>2</sup> ... 0.75 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.2 m <sup>2</sup> ... 0.75 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
Nominal current	0.4 A
Nominal voltage	250 V AC
	65 V DC

## Dimensions

Dimensional drawing	<p>The drawing shows two views of the circuit breaker. The main view is a top-down perspective showing a rectangular body with a width of 12.5 mm and a height of 89.5 mm. A secondary view shows the side profile with a height of 80.5 mm and a width of 12.5 mm. A small detail of the terminal connection is also shown.</p>
Width	12.5 mm

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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
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## 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
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## Drawings

Dimensional drawing



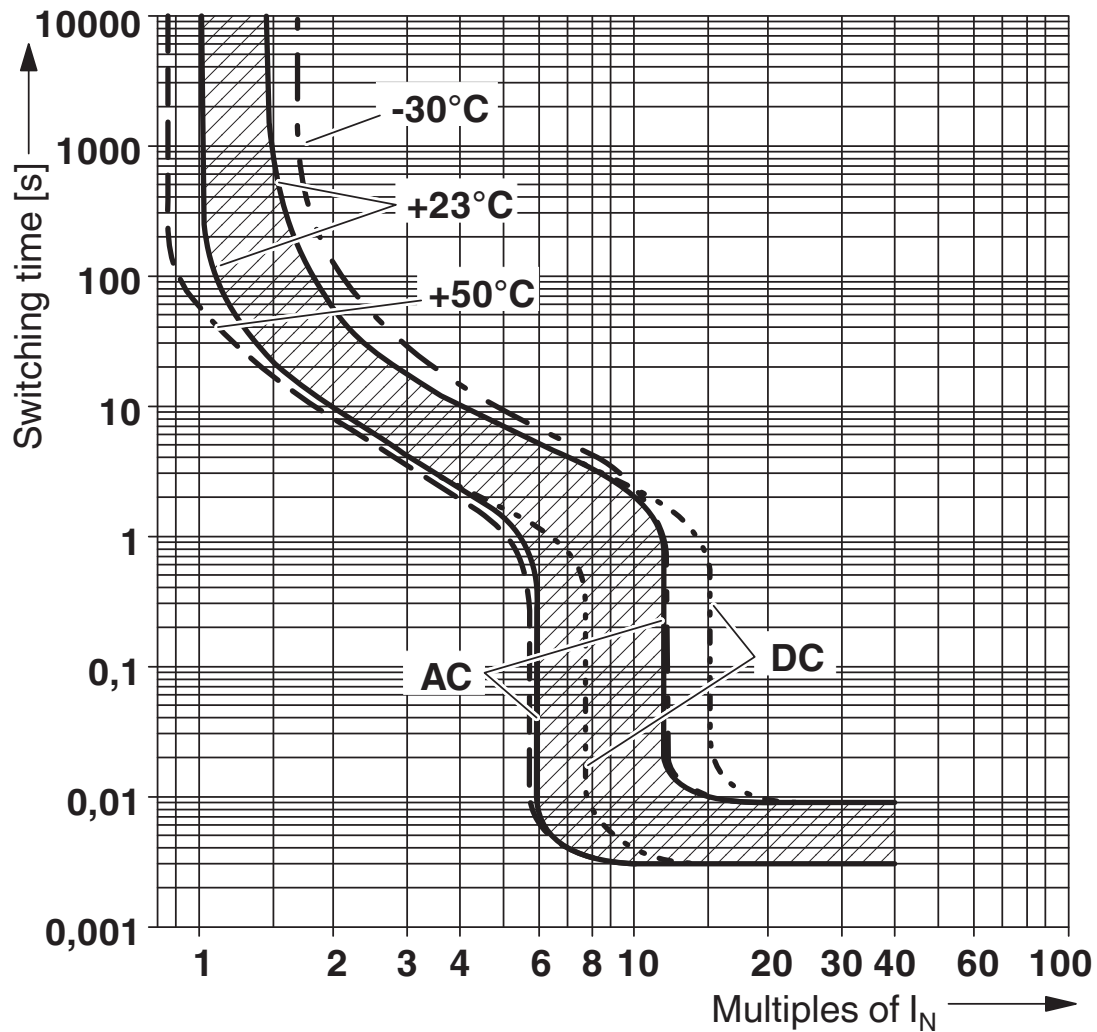
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Diagram



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