

# TMC 1 M1 200 2,5A - Thermal-magnetic device circuit breaker



0914646

<https://www.phoenixcontact.com/us/products/0914646>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

## Commercial data

Item number	0914646
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL04
Product key	CLA121
Catalog page	Page 282 (CL-2002)
GTIN	4017918009328
Weight per piece (including packing)	66.966 g
Weight per piece (excluding packing)	64.833 g
Customs tariff number	85362010
Country of origin	DE

# TMC 1 M1 200 2,5A - Thermal-magnetic device circuit breaker



0914646

<https://www.phoenixcontact.com/us/products/0914646>

## 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
No. of channels	1

### Insulation characteristics

Overvoltage category	II
Degree of pollution	2

### Electrical properties

Fuse type	Automatic device
<b>General</b>	
Rated voltage	250 V AC 65 V DC
Rated current $I_N$	2.5 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	0.183 $\Omega$
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 x $I_n$ , inductive)
Fuse	M1 (normal blow)
Contact switching type	1 N/C contact

### Indicator/remote signaling

Connection name	Auxiliary contact
Operating voltage	240 V AC 65 V DC
Operating current	2.5 A AC (Low-induction)

### Connection data

# TMC 1 M1 200 2,5A - Thermal-magnetic device circuit breaker



0914646

<https://www.phoenixcontact.com/us/products/0914646>

## Main contact

Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	12 mm
Internal cylindrical gage	A3
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, solid	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	2.5 A
Nominal voltage	250 V AC
	65 V DC

## Auxiliary contact

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, solid	0.2 m <sup>2</sup> ... 0.75 m <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	2.5 A
Nominal voltage	250 V AC
	65 V DC

## Main contact

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 Nm ... 0.8 Nm
Stripping length	12 mm

# TMC 1 M1 200 2,5A - Thermal-magnetic device circuit breaker



0914646

<https://www.phoenixcontact.com/us/products/0914646>

Conductor cross section flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross section AWG	24 ... 10
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>
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>

## Auxiliary contact

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 Nm ... 0.8 Nm
Stripping length	12 mm
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 14
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

## Dimensions

Dimensional drawing	
Width	12.5 mm
Height	82.5 mm
Depth	96 mm

## Material specifications

Color	black (RAL 9005)
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

# TMC 1 M1 200 2,5A - Thermal-magnetic device circuit breaker



0914646

<https://www.phoenixcontact.com/us/products/0914646>

## 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
---------------	-----------------

# TMC 1 M1 200 2,5A - Thermal-magnetic device circuit breaker

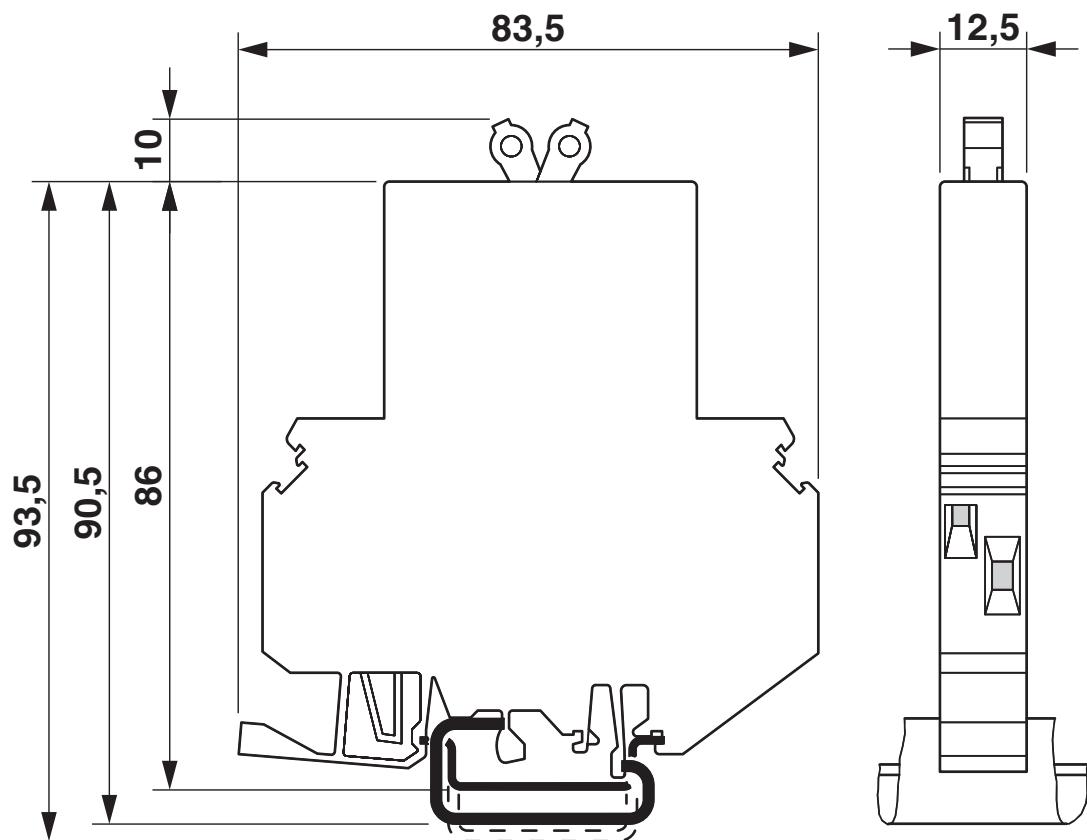


0914646

<https://www.phoenixcontact.com/us/products/0914646>

## Drawings

Dimensional drawing

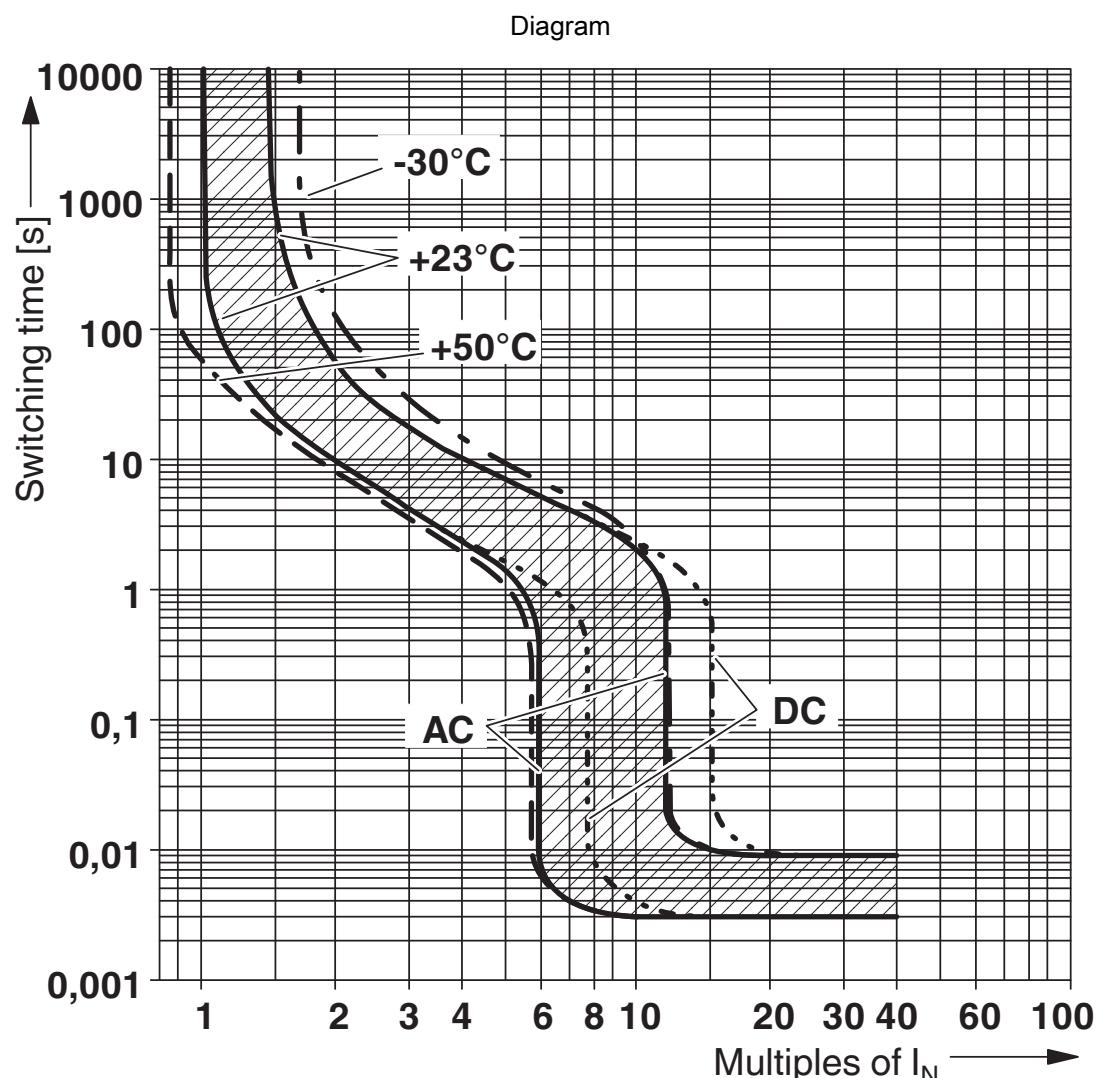


# TMC 1 M1 200 2,5A - Thermal-magnetic device circuit breaker



0914646

<https://www.phoenixcontact.com/us/products/0914646>



# TMC 1 M1 200 2,5A - Thermal-magnetic device circuit breaker



0914646

<https://www.phoenixcontact.com/us/products/0914646>

## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0914646>



**CSA**

Approval ID: 074317



**UL Recognized**

Approval ID: FILE E 140459



**EAC**

Approval ID: RU C-DE.A\*30.B01546



**VDE approval of drawings**

Approval ID: 40029348

**UAE-RoHS**

Approval ID: 23-10-88787

# TMC 1 M1 200 2,5A - Thermal-magnetic device circuit breaker



0914646

<https://www.phoenixcontact.com/us/products/0914646>

## Classifications

### ECLASS

ECLASS-13.0	27140401
-------------	----------

### ETIM

ETIM 9.0	EC003538
----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# TMC 1 M1 200 2,5A - Thermal-magnetic device circuit breaker



0914646

<https://www.phoenixcontact.com/us/products/0914646>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-25
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.)	Lead(CAS: 7439-92-1)
SCIP	b5ab0721-7f52-4be6-ba46-84f173554d80

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

### Phoenix Contact USA

586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)