

# TMC 1 M1 100 20,0A - Thermal-magnetic device circuit breaker



0915470

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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	0915470
Packing unit	6 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA121
GTIN	4017918254995
Weight per piece (including packing)	64.6 g
Weight per piece (excluding packing)	63.57 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	III
Degree of pollution	3

### Electrical properties

Fuse type	Automatic device
Maximum load current	1 A (for 6 mm <sup>2</sup> conductor cross-section - main contact)
	1 A (for 6 mm <sup>2</sup> conductor cross-section - auxiliary contact)
Rated surge voltage	4 kV
Switching capacity I <sub>CN</sub>	400 A for nominal currents 0.2 - 5 A
	800 A for nominal currents 6 - 16 A
Fuse	M1 (normal blow)

### General

Tripping method	TM (thermal-magnetic)
Fuse	M1 (normal blow)
Contact switching type	1 N/O contact

### Connection data

Maximum load current	1 A (for 6 mm <sup>2</sup> conductor cross-section - main contact)
	1 A (for 6 mm <sup>2</sup> conductor cross-section - auxiliary contact)

### 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 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>

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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	20 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, 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> ... 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	20 A
Nominal voltage	250 V AC
	65 V DC

## Dimensions

Width	12.5 mm
Height	83.5 mm
Height NS 35/15	103.5 mm
Height NS 35/7,5	96 mm
Height NS 32	100.5 mm
Depth	96 mm

## Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA-F

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## Environmental and real-life conditions

Ambient conditions	
Ambient temperature (operation)	-30 °C ... 60 °C

## Mounting

Mounting type	DIN rail: 35 mm
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## Approvals

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**CSA**

Approval ID: 074317



**UL Recognized**

Approval ID: FILE E 140459



**VDE Zeichengenehmigung**

Approval ID: 40029348

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## Classifications

### ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

### ETIM

ETIM 9.0	EC003538
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### UNSPSC

UNSPSC 21.0	39121410
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## 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)
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### EF3.0 Climate Change

CO2e kg	4.897 kg CO2e
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