

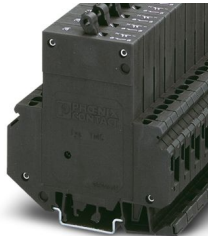
# TMC 2 M1 110 2,0A - Thermal-magnetic device circuit breaker



0915467

<https://www.phoenixcontact.com/us/products/0915467>

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Thermal-magnetic device circuit breaker, 2-position, connection method: Screw connection, nominal current: 2 A, nom. voltage: 250 V, tripping characteristic: M1 (normal blow), fuse type: Automatic device, mounting type: DIN rail: 35 mm, rated current: 2 A

The figure shows version TMC 1  
F1 100 1A

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 0915467                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CL04                           |
| Product key                          | CLA121                         |
| GTIN                                 | 4017918254988                  |
| Weight per piece (including packing) | 130.8 g                        |
| Weight per piece (excluding packing) | 122.35 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   | 2                                      |
| 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                                   | 250 V AC (3 AC 433 V)                 |
|   | 65 V DC                               |
| Rated current $I_N$                             | 2 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                               | 0.28 $\Omega$                         |
| Rated short-circuit switching capacity $I_{cn}$ | 400 A                                 |
|   | 2500 A (32 V DC)                      |
| Short-circuit switching capacity                | 5000 A (UL 1077: 277/480 V)           |
|   | 2000 A (UL 1077: 65 V DC)             |
| Dielectric strength                             | 3000 V AC (Actuation area)            |
|   | 3000 V AC (Main to auxiliary circuit) |
|   | 1500 V AC (Position to position)      |
| Switching cycles, max.                          | 10000 (At $1 \times I_n$ , inductive) |
| Fuse  | M1 (normal blow)                      |
| Contact switching type                          | 2 N/O contacts                        |

### Connection data

#### Main contact

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

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|   |  |
|---|--|
| 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, 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   | 2 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 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 A  |
| Nominal voltage   | 250 V AC                                     |
|   | 65 V DC                                      |

## Dimensions

|        |         |
|--------|---------|
| Width  | 25 mm   |
| Height | 82.5 mm |
| Depth  | 96 mm   |

## Material specifications

|  |      |
|--|------|
| Flammability rating according to UL 94 | V2   |
| Insulating material group              | II   |
| Insulating material                    | PA66 |

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