# TMC 1 F1 100  0,2A - Thermal-magnetic device circuit breaker

0914015

https://www.phoenixcontact.com/us/products/0914015

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 device circuit breaker, 1-position, connection method: Screw connection, tripping characteristic: F1 (fast blow), fuse type: Automatic device, mounting type: DIN rail: 35 mm, rated current: 0.2 A

## Your advantages

- Fast tripping in the event of an error with the aid of the F1 characteristic curve
- High-level system transparency with integrated remote indication contact
- Fast, replacement part-free recommissioning after an event with the reconnection options

## Commercial data

| | |
|---|---|
| Item number | 0914015 |
| Packing unit | 6 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL04 |
| Product key | CLA121 |
| GTIN | 4017918008697 |
| Weight per piece (including packing) | 69.12 g |
| Weight per piece (excluding packing) | 69.12 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 |
| No. of channels | 1 |

### Insulation characteristics

| | |
|---|---|
| Overvoltage category | II |
| Degree of pollution | 2 |

## Electrical properties

| | |
|---|---|
| Fuse type | Automatic device |

### General

| | |
|---|---|
| Rated voltage | 65 V DC |
| | 65 V DC (DC according to UL 1077) |
| Rated current $I_N$ | 0.2 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 | 39.3 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/O contact |

### Indicator/remote signaling

| | |
|---|---|
| Connection name | Auxiliary contact |
| Operating voltage | 250 V AC |
| | 65 V DC |
| Operating current | 0.2 A AC (Low-induction) |

## Connection data

| | |
|---|---|
| Connection method | Screw connection |

Main contact

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M3 |
| Note | Main contact |
| 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 |

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 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 ... 0.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 0.75 mm² |

Main contact

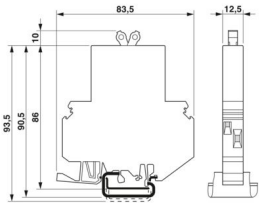
| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.6 Nm ... 0.8 Nm |
| Stripping length | 12 mm |
| Conductor cross-section flexible | 0.2 mm² ... 4 mm² |
| Conductor cross-section rigid | 0.2 mm² ... 6 mm² |
| Conductor cross-section AWG | 24 ... 10 |

| | |
|---|---|
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 2.5 mm² |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 0.25 mm² ... 2.5 mm² |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 0.25 mm² ... 4 mm² |

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 mm² ... 1.5 mm² |
| Conductor cross-section rigid | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section AWG | 24 ... 14 |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 0.25 mm² ... 1.5 mm² |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 0.25 mm² ... 2.5 mm² |

## 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

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

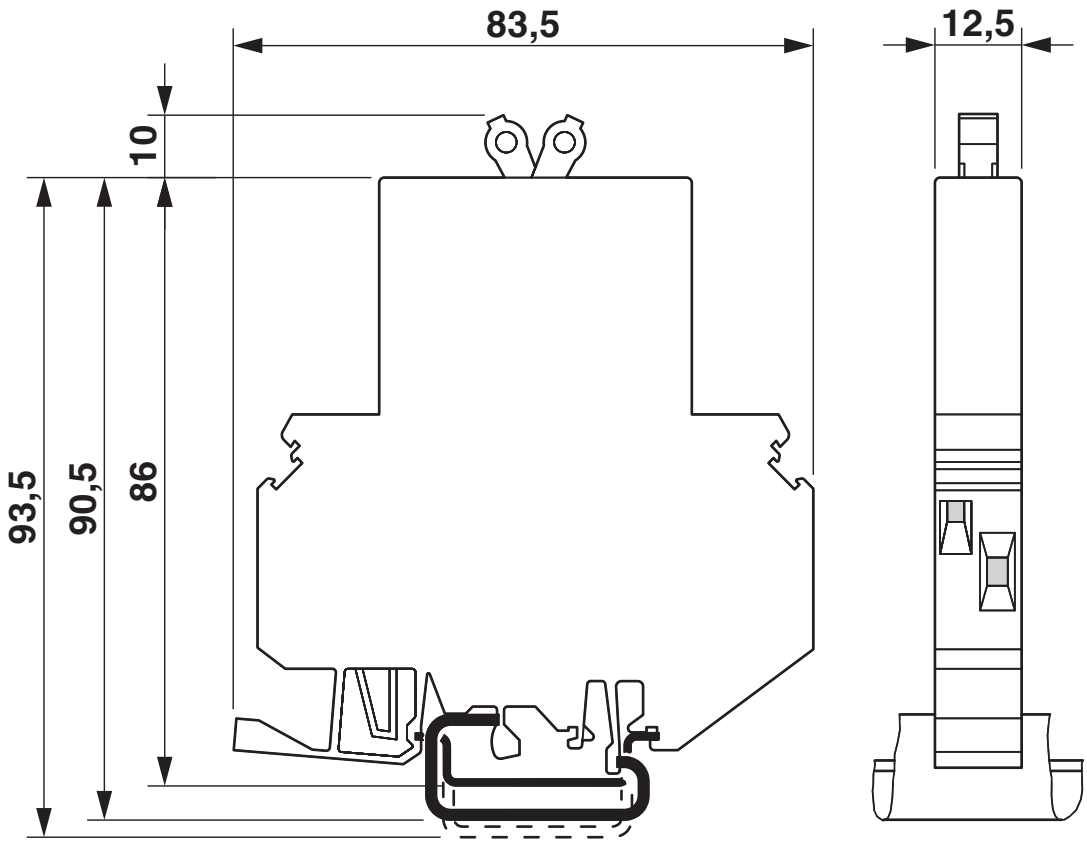
| | |
|---|---|
| Standards/specifications | EN 60934 |
| Standards/specifications | UL 1077 |

## Mounting

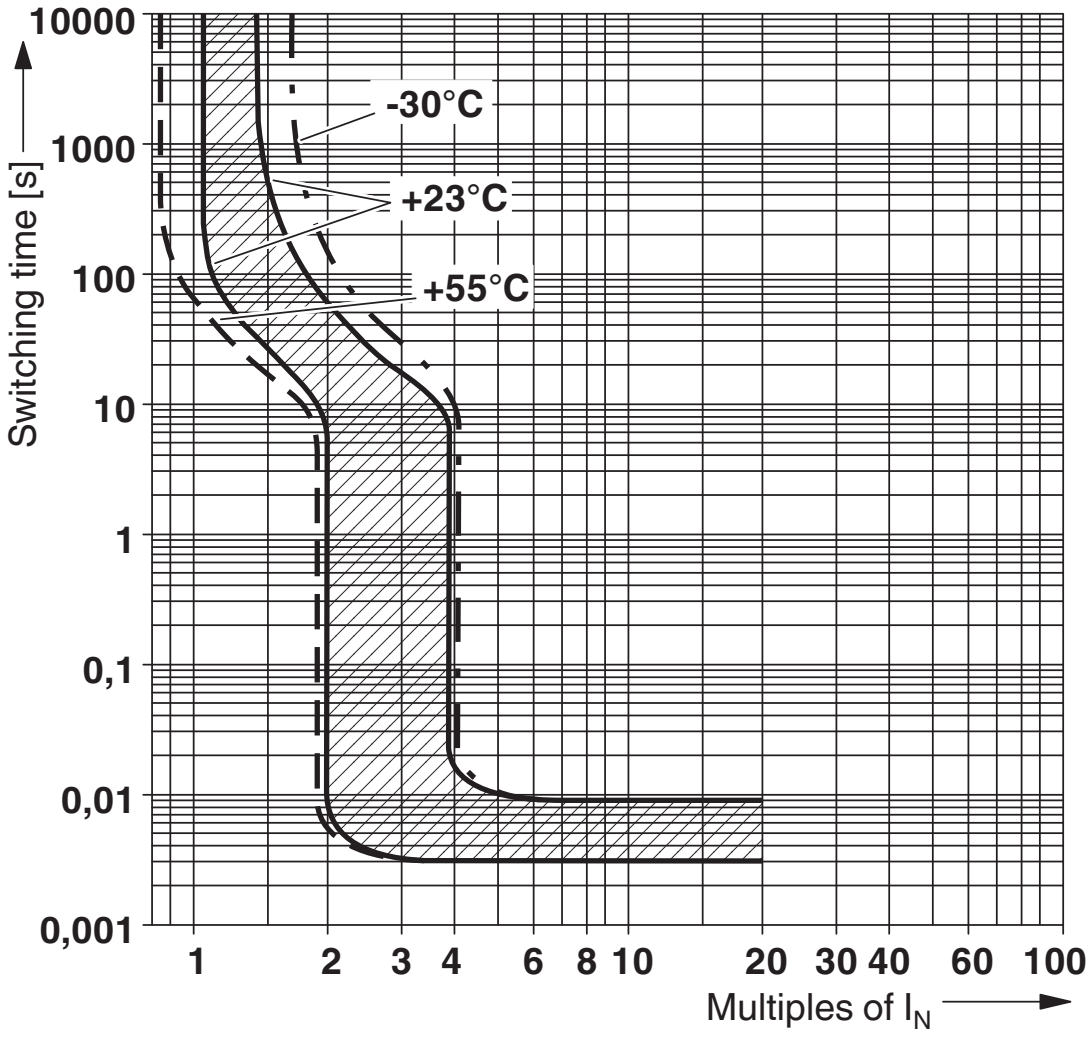
| | |
|---|---|
| Mounting type | DIN rail: 35 mm |

## 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 $I_N$

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/0914015

**CSA**
Approval ID: 074317

**UL Recognized**
Approval ID: FILE E 140459

**VDE Zeichengenehmigung**
Approval ID: 40029348

**UAE-RoHS**
Approval ID: 23-10-88786

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27140401 |
| ECLASS-15.0 | 27140401 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC003538 |

### UNSPSC

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

## 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 | a3adf1f1-0a02-4a6b-8447-1ce2e6825615 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 3.786 kg CO2e |


Phoenix Contact 2026 © - 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