

# TMC 72C 10A - Thermomagnetic device circuit breaker



1020002

<https://www.phoenixcontact.com/us/products/1020002>

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Thermomagnetic device circuit breaker, number of positions: 2, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: DIN rail: 35 mm

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1020002                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CL09                           |
| Product key                          | CLA126                         |
| GTIN                                 | 4055626508887                  |
| Weight per piece (including packing) | 225.75 g                       |
| Weight per piece (excluding packing) | 222.222 g                      |
| Customs tariff number                | 85362010                       |
| Country of origin                    | CN                             |

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## Technical data

### Product properties

|                         |  |
|-------------------------|--|
| Type                    | DIN rail module, one-piece             |
| Product type            | Thermomagnetic device circuit breakers |
| Product family          | TMC 7                                  |
| Number of positions     | 2                                      |
| Mechanical service life | 20000                                  |

### Electrical properties

|                         |      |
|-------------------------|------|
| Service life electrical | 6000 |
|-------------------------|------|

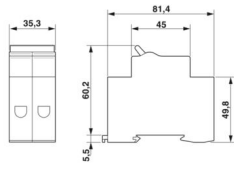
#### General

|   |  |
|---|--|
| Operating voltage                               | 277 V AC (277/480Y, 240D)              |
|   | 125 V DC (two poles in series)         |
| Rated current $I_N$                             | 10 A                                   |
| Tripping method                                 | TM (thermomagnetic)                    |
| Rated short-circuit switching capacity $I_{cn}$ | 5 kA (277/480Y, 240D)                  |
|   | 7.5 kA (125 V DC, two poles in series) |
| Fuse  | C (curve)                              |

### Connection data

|                                       |  |
|---------------------------------------|--|
| Conductor cross section rigid         | 1 mm <sup>2</sup> ... 35 mm <sup>2</sup> |
| Cross section AWG                     | 18 ... 2 (converted acc. to IEC)         |
| Conductor cross section flexible      | 1 mm <sup>2</sup> ... 35 mm <sup>2</sup> |
| Connection method                     | Screw connection                         |
| Tightening torque, min                | 2 Nm                                     |
| Stripping length                      | 11 mm ... 12 mm                          |
| Conductor cross section flexible max. | 35 mm <sup>2</sup>                       |
| Conductor cross section, rigid max.   | 35 mm <sup>2</sup>                       |

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 35.3 mm  |
| Height              | 84.3 mm  |
| Depth               | 76.6 mm (incl. DIN rail 7.5 mm)  |

### Material specifications

|       |                       |
|-------|-----------------------|
| Color | light grey (RAL 7035) |
|-------|-----------------------|

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|  |                 |
|--|-----------------|
|  | gray (RAL 7042) |
|--|-----------------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |   |
|---------------------------------|---|
| Degree of protection            | IP20  |
| Ambient temperature (operation) | -35 °C ... 70 °C  |
| Humidity test                   | 48 h, 95% RH, 40°C (IEC 60068-2-78)   |
| Shock (operation)               | 30g (11 ms) (IEC 60068-2-11, test Ea)   |
| Vibration (operation)           | ±0.38 mm (10-57 Hz), 5g (57...500 Hz) (Sinusoidal test to IEC 60068-2-6, Test Fc. 10 frequency cycles per axis) |

## Standards and regulations

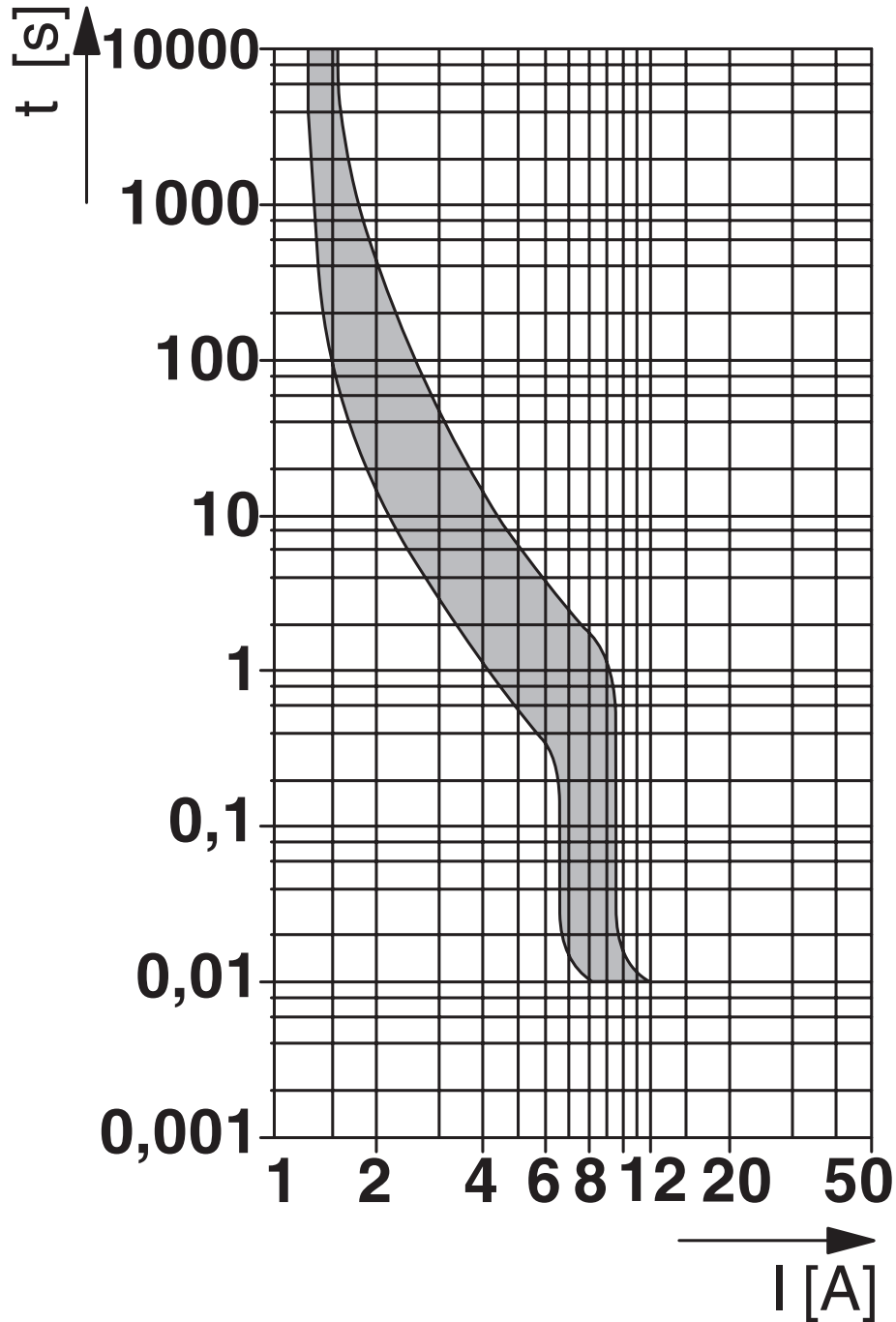
|                          |             |
|--------------------------|-------------|
| Standards/specifications | UL 1077     |
| Standards/specifications | IEC 60947-2 |

## Mounting

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

Drawings

Diagram



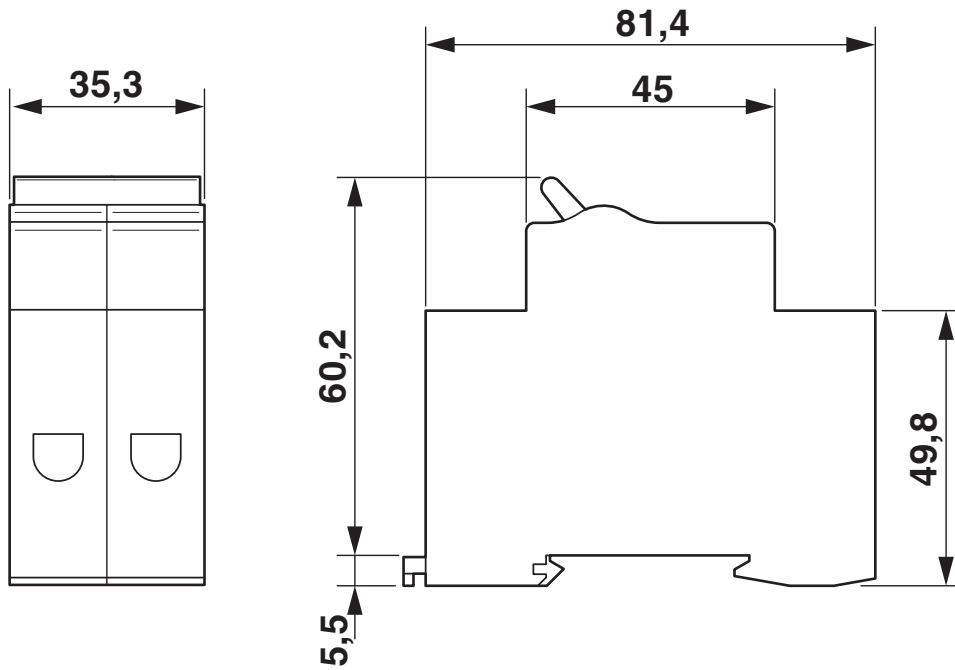
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Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1020002>



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



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



**TÜV Rheinland**  
Approval ID: R 50531587

**cULus Recognized**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141116 |
| ECLASS-12.0 | 27141116 |
| ECLASS-13.0 | 27140401 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC000899 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |



# TMC 72C 10A - Thermomagnetic device circuit breaker



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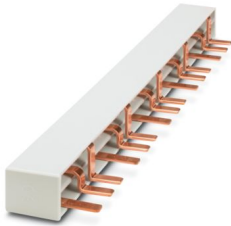
<https://www.phoenixcontact.com/us/products/1020002>

## Accessories

### TMC 7 B2 80 56 C - Wiring bridge

1022236

<https://www.phoenixcontact.com/us/products/1022236>



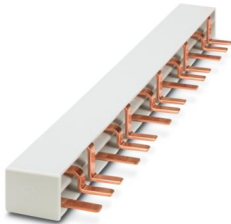
Bus bar for TMC 72... circuit breakers (two phase) 17.8 mm pitch, up to 56 positions. Rated for 80 A (end feed) 600 V AC/DC. UL 508 Listed for connection of UL 1077 rated circuit breakers.

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### TMC 7 B2 80 46 CA - Wiring bridge

1022235

<https://www.phoenixcontact.com/us/products/1022235>



Bus bar for TMC 72... circuit breakers (two phase) 17.8 mm pitch, up to 46 positions. Rated for 80 A (end feed) 600 V AC/DC. UL 508 Listed for connection of UL 1077 rated circuit breakers.

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## TMC 7 B2/3 TERM - Terminal adapter

1022232

<https://www.phoenixcontact.com/us/products/1022232>



Feeder terminal adapter for TMC 72 or TMC 73 circuit breakers, two- or three-phase bus bars. Rated for 600 V AC/DC 115 A. Wire range 10...1/0 AWG. UL 508 Listed for connection to UL 1077 rated circuit breakers.

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## TMC 7 B2/3 END CAP - Wiring bridge end cover

1022229

<https://www.phoenixcontact.com/us/products/1022229>



Protective end covers for TMC 7 multi-pole bus bars

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## TMC 7 B BUS CAP - Protective cover

1022224

<https://www.phoenixcontact.com/us/products/1022224>



Protective covers for TMC 7 single-pole bus bars. Cuttable, five positions, yellow.

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## TMC 7/8 AUX - Thermomagnetic device circuit breaker

2908219

<https://www.phoenixcontact.com/us/products/2908219>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker

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## TMC 7/8 ALARM - Thermomagnetic device circuit breaker

2908220

<https://www.phoenixcontact.com/us/products/2908220>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker

## TMC 7/8 12VDC SHNT - Thermomagnetic device circuit breaker

2908221

<https://www.phoenixcontact.com/us/products/2908221>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker

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<https://www.phoenixcontact.com/us/products/1020002>

## TMC 7/8 24VDC SHNT - Thermomagnetic device circuit breaker

2908222

<https://www.phoenixcontact.com/us/products/2908222>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker

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## TMC 7/8 48VDC SHNT - Thermomagnetic device circuit breaker

2908224

<https://www.phoenixcontact.com/us/products/2908224>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker

# TMC 72C 10A - Thermomagnetic device circuit breaker



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## TMC 7/8 125VDC SHNT - Thermomagnetic device circuit breaker

2908225

<https://www.phoenixcontact.com/us/products/2908225>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker

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## TMC 7/8 120VAC SHNT - Thermomagnetic device circuit breaker

2908226

<https://www.phoenixcontact.com/us/products/2908226>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker

# TMC 72C 10A - Thermomagnetic device circuit breaker



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## TMC 7/8 240VAC SHNT - Thermomagnetic device circuit breaker

2908227

<https://www.phoenixcontact.com/us/products/2908227>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker

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## TMC 7/8 277VAC SHNT - Thermomagnetic device circuit breaker

2908228

<https://www.phoenixcontact.com/us/products/2908228>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker

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## EML (10X4)R - Label

0815583

<https://www.phoenixcontact.com/us/products/0815583>



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 10 x 4 mm, Number of individual labels: 10000

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## TML (104X3,8)R - Marker strip

0801833

<https://www.phoenixcontact.com/us/products/0801833>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm, Number of individual labels: 2500



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## SZK PZ2 VDE - Screwdriver

1206463

<https://www.phoenixcontact.com/us/products/1206463>



Screwdriver, PZ crosshead, VDE insulated, size: PZ 2 x 100 mm, 2-component grip, with non-slip grip

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