

# TMC 82C 10A - Miniature Circuit Breaker



2907591

<https://www.phoenixcontact.com/us/products/2907591>

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Miniature 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                          | 2907591                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CL08                           |
| Product key                          | CLA125                         |
| GTIN                                 | 4055626215563                  |
| Weight per piece (including packing) | 279.616 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

|                         |                                        |
|-------------------------|----------------------------------------|
| Product type            | Thermomagnetic device circuit breakers |
| Product family          | TMC 8                                  |
| Type                    | DIN rail module, one-piece             |
| Number of positions     | 2                                      |
| Mechanical service life | 20000                                  |

### Electrical properties

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

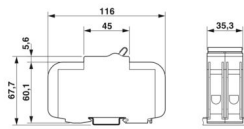
#### General

|                                                 |                                |
|-------------------------------------------------|--------------------------------|
| Operating voltage                               | 240 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 $I_{cn}$ | 10 kA (IC)                     |
| Fuse                                            | C                              |

### 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              | 116 mm                                                                               |
| Depth               | 76.6 mm (incl. DIN rail 7.5 mm)                                                      |

### Material specifications

|       |                       |
|-------|-----------------------|
| Color | light grey (RAL 7035) |
|       | gray (RAL 7042)       |

### Environmental and real-life conditions

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### Ambient conditions

|                                 |                                                                 |
|---------------------------------|-----------------------------------------------------------------|
| 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)                                    |
| Vibration (operation)           | ±0.38 mm (10-57 Hz), 5g (57...500 Hz) (IEC 60068-2-6, Fc, sine) |

### Standards and regulations

|                          |             |
|--------------------------|-------------|
| Standards/specifications | UL 489      |
|                          | IEC 60947-2 |

### Mounting

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

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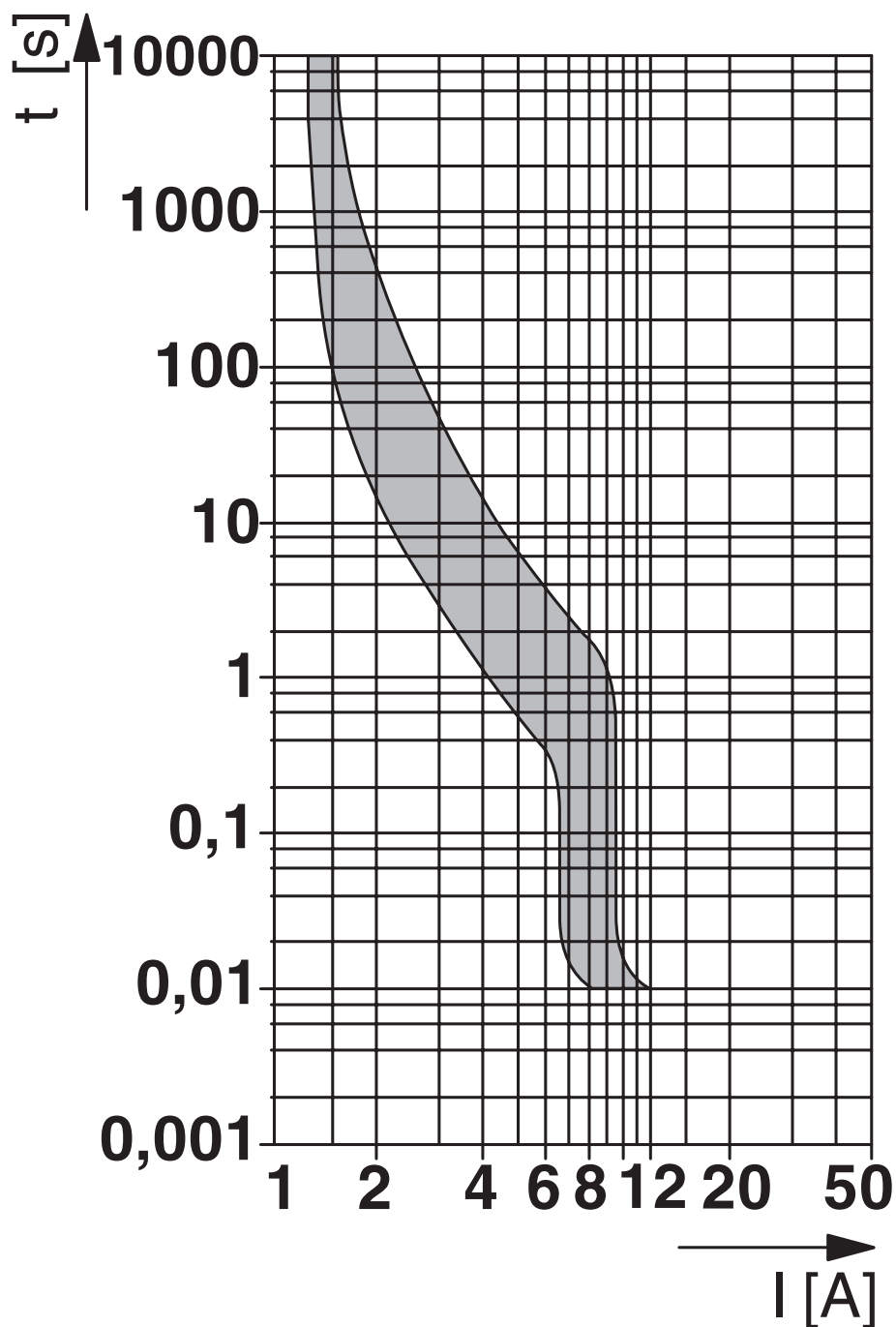
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## Drawings

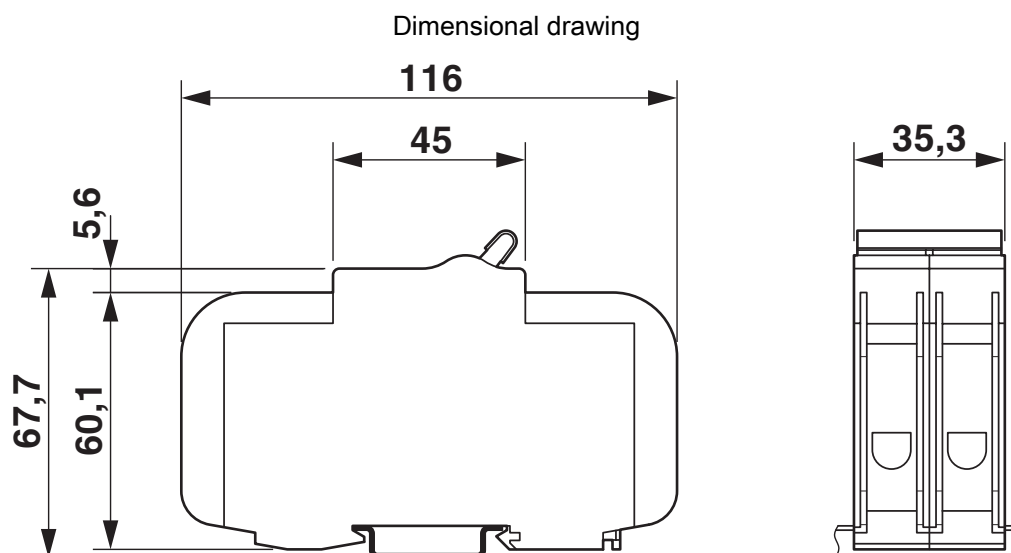
Diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2907591>

**UL Listed**  
Approval ID: FILE E 320373

**cUL Listed**  
Approval ID: FILE E 320373

**TÜV Rheinland**  
Approval ID: R 50531587

**cULus Listed**

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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

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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## Accessories

### TMC 8 B2 80 56 C - Wiring bridge

2907993

<https://www.phoenixcontact.com/us/products/2907993>



Bus bar for TMC 82... 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 489 rated circuit breakers.

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### TMC 8 B2 80 46 CA - Wiring bridge

2907995

<https://www.phoenixcontact.com/us/products/2907995>



Bus bar for TMC 82... circuit breakers (two phase) with auxilliary switch module. 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 489 rated circuit breakers.

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## TMC 8 B TERM PIN - Terminal adapter

2907998

<https://www.phoenixcontact.com/us/products/2907998>

Feeder terminal adapter for TMC 8..... circuit breaker bus bars. Rated for 1000 V AC/DC, 115 A. Wire range 14...2 AWG. UL Listed for connection to UL 489 rated circuit breakers.



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## TMC 8 B END CAP - Wiring bridge end cover

2907999

<https://www.phoenixcontact.com/us/products/2907999>

Protective end covers for TMC 8 bus bars



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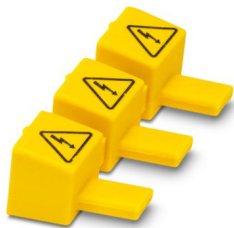
<https://www.phoenixcontact.com/us/products/2907591>



## TMC 8 B BUS CAP - Protective cover

2908000

<https://www.phoenixcontact.com/us/products/2908000>



Protective covers for TMC 8 bus bars. Cuttable, three positions, yellow.

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## TMC 7/8 AUX - Auxiliary Contact

2908219

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



Auxiliary Contact, 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 - Alarm Switch

2908220

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



Alarm Switch, 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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## 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

## 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

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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

## 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 82C 10A - Miniature 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

## 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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