

# TMC 82C 50A - Thermomagnetic device circuit breaker



2907603

<https://www.phoenixcontact.com/us/products/2907603>

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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                          | 2907603                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CL08                           |
| Product key                          | CLA125                         |
| GTIN                                 | 4055626215457                  |
| Weight per piece (including packing) | 222.222 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 |
|-------------------------|------|

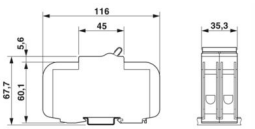
#### General

|                                                 |                                |
|-------------------------------------------------|--------------------------------|
| Operating voltage                               | 240 V AC (120/240S, 240D)      |
|                                                 | 125 V DC (two poles in series) |
| Rated current $I_N$                             | 50 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

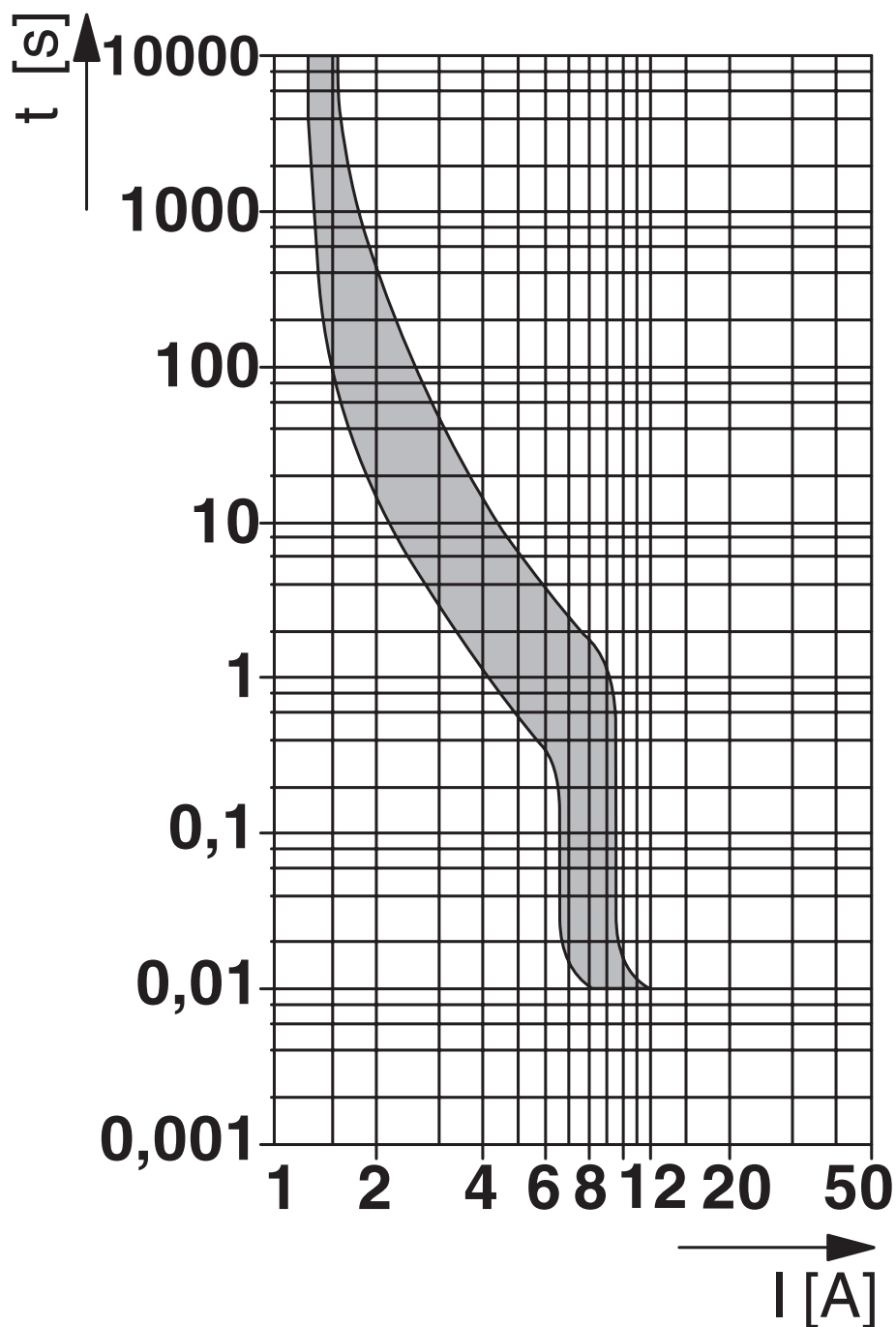
|                          |             |
|--------------------------|-------------|
| Standards/specifications | UL 489      |
|                          | IEC 60947-2 |

## Mounting

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

## Drawings

Diagram

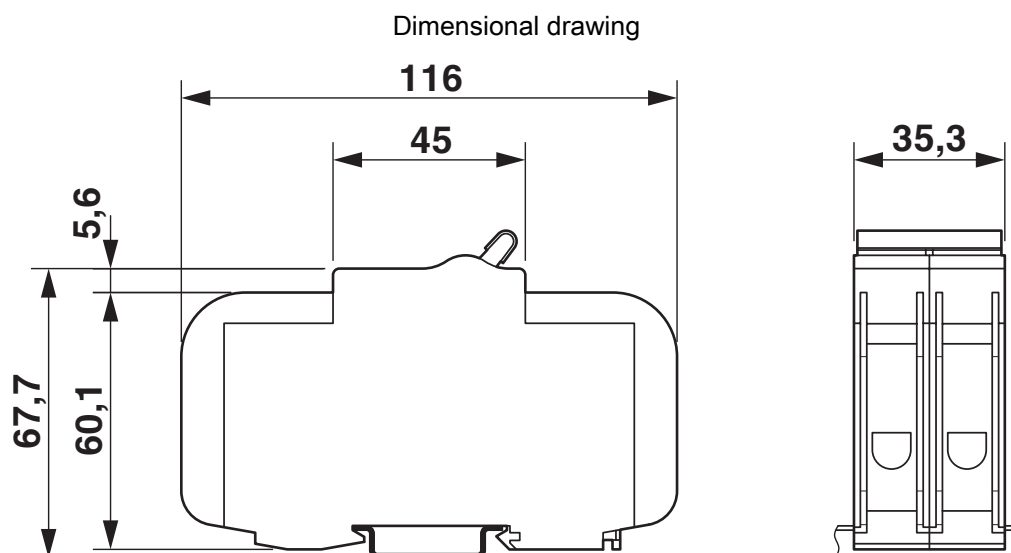


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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2907603>



**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

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

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