

# TMC 83B 03A - Miniature Circuit Breaker



2907542

<https://www.phoenixcontact.com/us/products/2907542>

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Miniature Circuit Breaker, number of positions: 3, 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                          | 2907542                        |
| Packing unit                         | 48 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CL08                           |
| Product key                          | CLA125                         |
| GTIN                                 | 4055626216188                  |
| 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     | 3                                      |
| Mechanical service life | 20000                                  |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 04 |
|------------------|----|

### Electrical properties

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

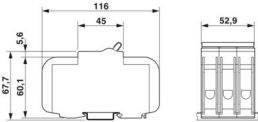
### General

|                                                 |                           |
|-------------------------------------------------|---------------------------|
| Operating voltage                               | 240 V AC (277/480Y, 240D) |
| Rated current $I_N$                             | 3 A                       |
| Tripping method                                 | TM (thermomagnetic)       |
| Rated short-circuit switching capacity $I_{cn}$ | 10 kA (IC)                |
| Fuse                                            | B                         |

### 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               | 52.9 mm                                                                              |
| Height              | 116 mm                                                                               |
| Depth               | 76.6 mm (incl. DIN rail 7.5 mm)                                                      |

### Material specifications

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

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## Environmental and real-life conditions

### 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

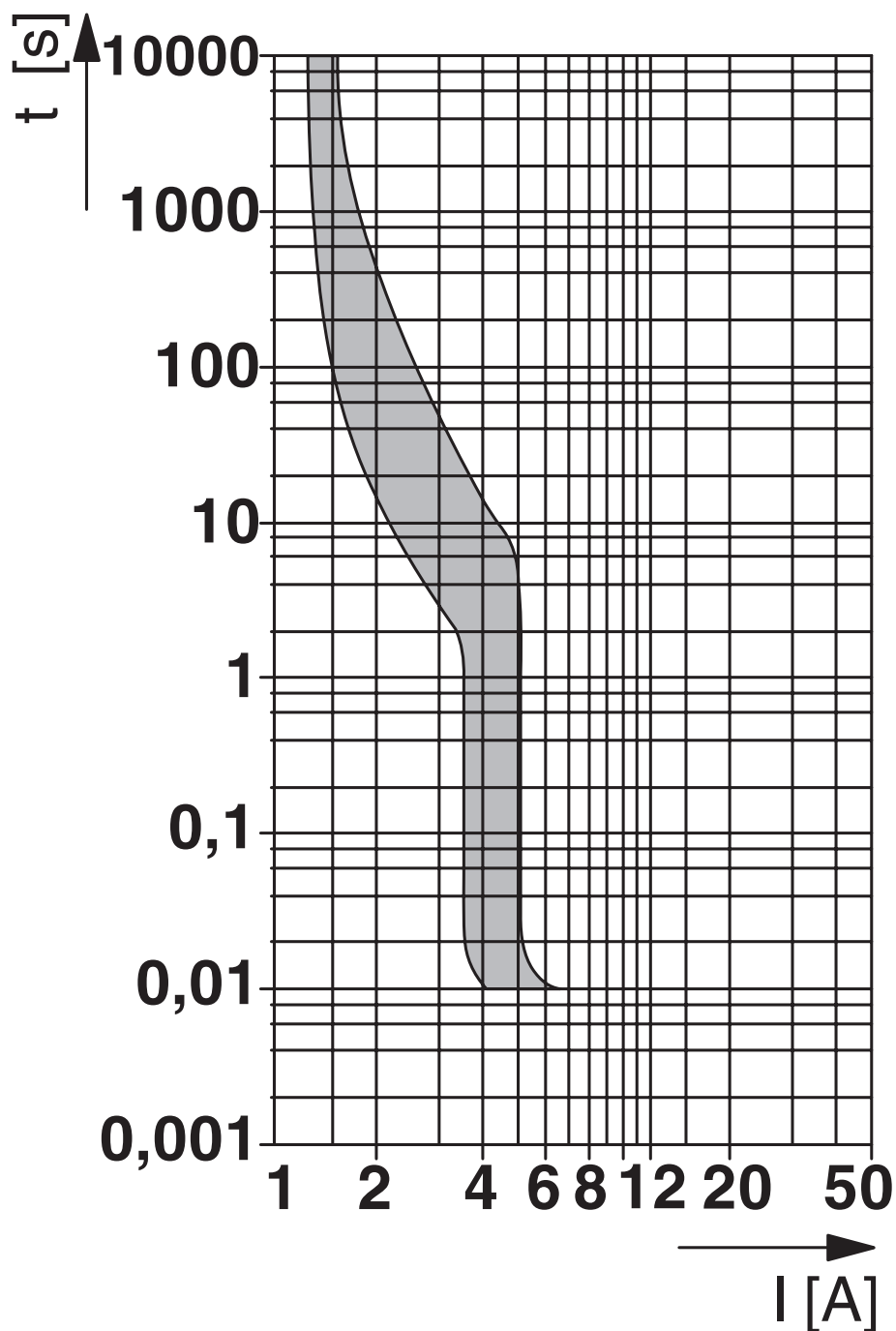
|                          |             |
|--------------------------|-------------|
| Standards/specifications | UL 489      |
| Standards/specifications | IEC 60947-2 |

## Mounting

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

## Drawings

Diagram



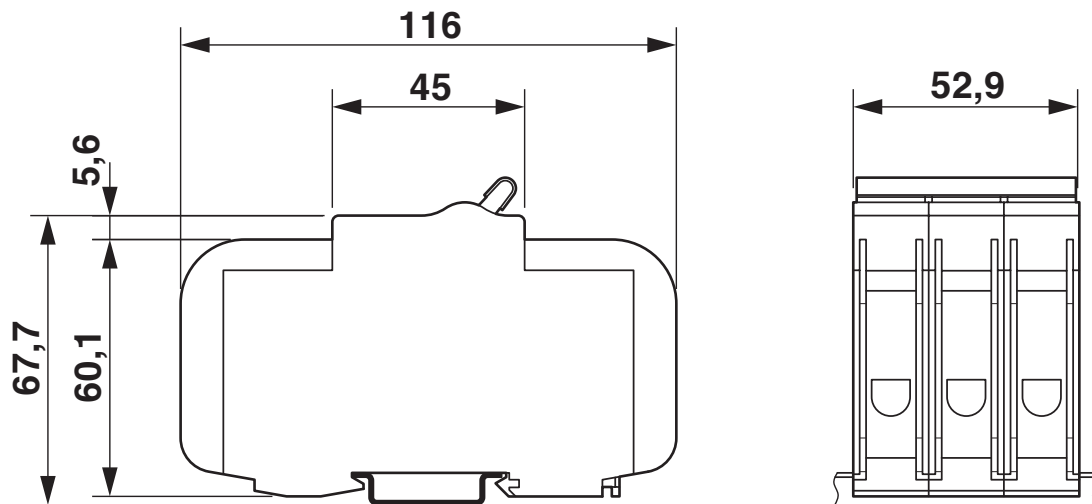
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Dimensional drawing



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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2907542>



**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 9.0 | EC003538 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121410 |
|-------------|----------|

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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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