

# TMC 72D 40A - Miniature Circuit Breaker



1020078  
<https://www.phoenixcontact.com/us/products/1020078>

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Thermal-magnetic Miniature Circuit Breaker, 2-position, use: Supplementary Protection (UL 1077), for protection against overload up to a short-circuit current of 7.5 kA, tripping characteristic: D, mounting type: NS 35/..., rated current: 40 A

## Your advantages

- Can be used worldwide due to international approvals
- Suitable for various grid types, as it is available in 1-, 2-, 3-pos. versions
- Ideally coordinated protection due to various tripping characteristics and a wide selection of nominal currents
- Reduced inventory because of suitability for AC and DC applications
- Optional accessories enable remote control and monitoring

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1020078                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CL09                           |
| Product key                          | CLA126                         |
| GTIN                                 | 4055626509600                  |
| Weight per piece (including packing) | 238.3 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            | Circuit breakers                                                                                                             |
| Product family          | TMC 7                                                                                                                        |
| Type                    | DIN rail module, one-piece                                                                                                   |
| Number of positions     | 2                                                                                                                            |
| Mechanical service life | 20000                                                                                                                        |
| Special properties      | Supplementary Protection (UL 1077), for protection against overload up to a short-circuit current of 7.5 kA Thermal-magnetic |

### Electrical properties

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

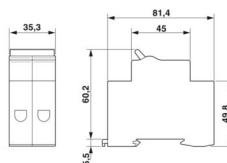
#### General

|                                                 |                                        |
|-------------------------------------------------|----------------------------------------|
| Operating voltage                               | 277 V AC (277/480Y, 240D)              |
|                                                 | 125 V DC (two poles in series)         |
| Rated current $I_N$                             | 40 A                                   |
| Tripping method                                 | TM (thermal-magnetic)                  |
| Rated short-circuit switching capacity $I_{cn}$ | 5 kA (277/480Y, 240D)                  |
|                                                 | 7.5 kA (125 V DC, two poles in series) |
| Fuse                                            | D                                      |
| Contact switching type                          | none                                   |

### Connection data

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

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## 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 Hz ... 57 Hz), 5g (57 Hz ... 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 | NS 35/... |
|---------------|-----------|

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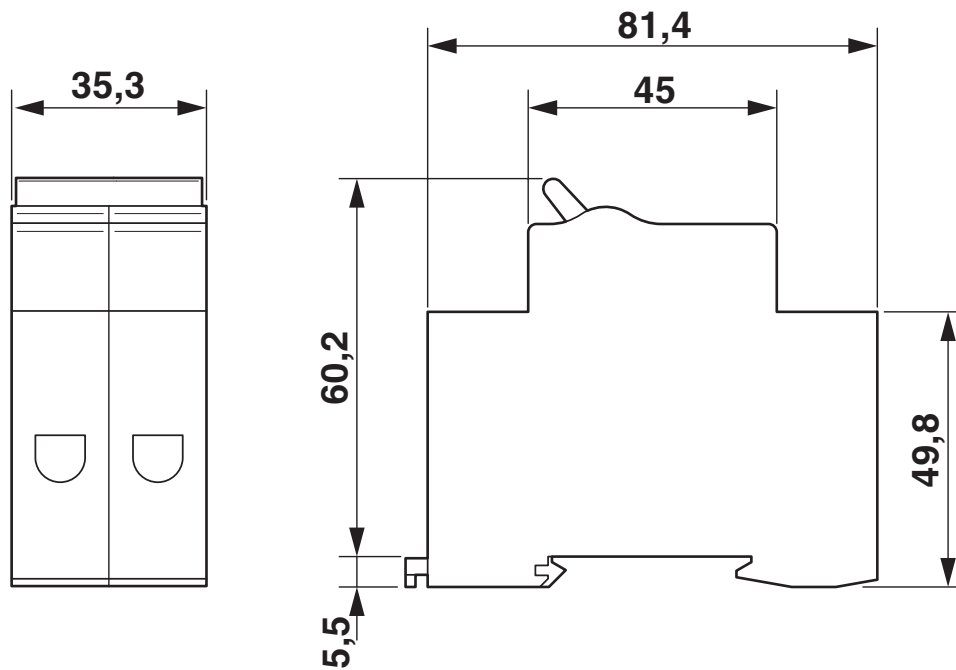
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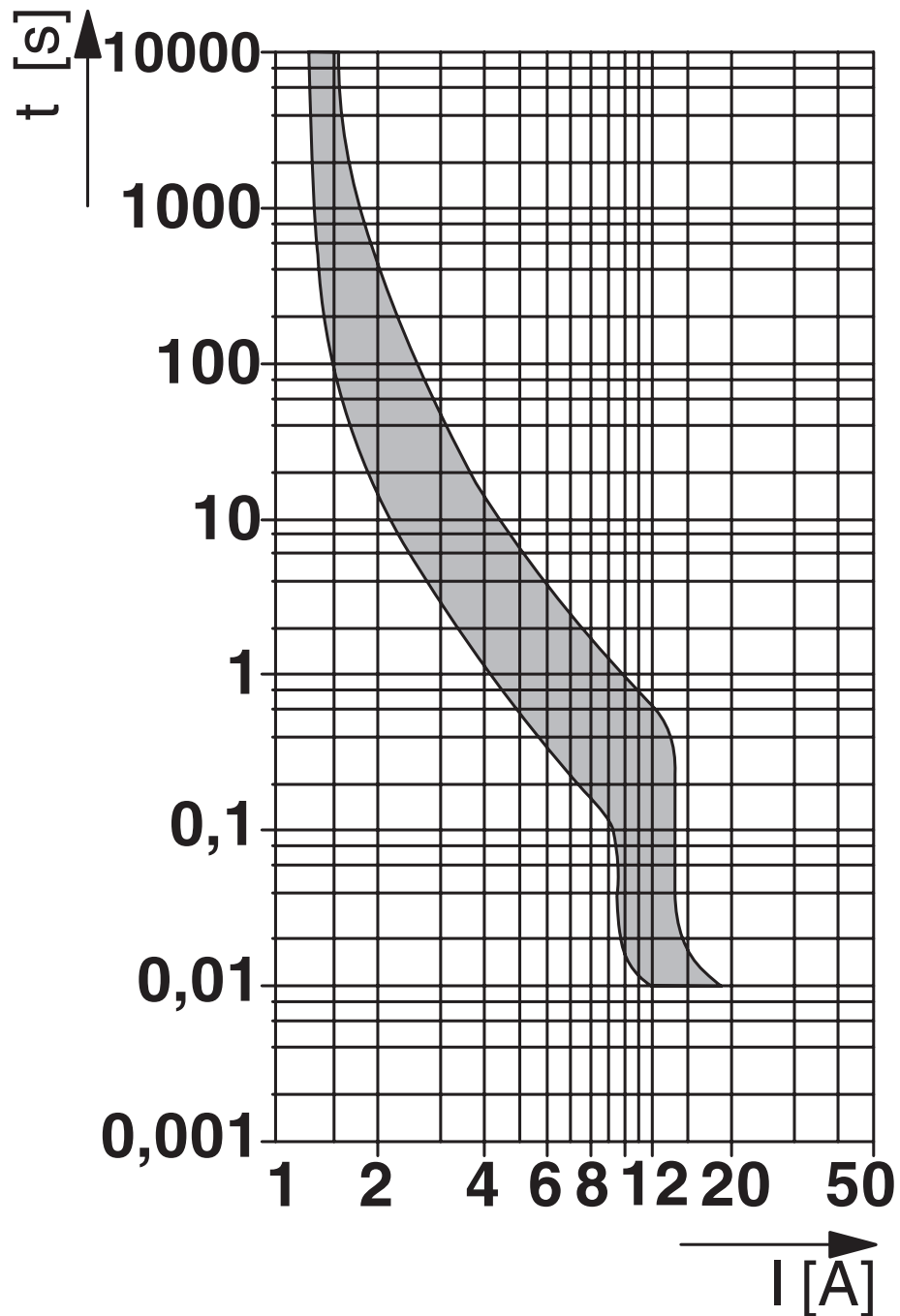


## Drawings

Dimensional drawing



Diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1020078>



**cUL Recognized**

Approval ID: FILE E 140459



**UL Recognized**

Approval ID: FILE E 140459



**CCC**

Approval ID: 2024010307673885



**TÜV Rheinland**

Approval ID: R 50531587

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27140401 |
| ECLASS-15.0 | 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%               |
| EF3.0 Climate Change                    |                                          |
| CO2e kg                                 | 4.435 kg CO2e                            |

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