

# TMC 71C 20A - Thermomagnetic device circuit breaker



1019985

<https://www.phoenixcontact.com/in/products/1019985>

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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: DIN rail: 35 mm

## Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1019985       |
| Packing unit                         | 12 pc         |
| Minimum order quantity               | 12 pc         |
| Sales Key                            | *****         |
| Product Key                          | CLA126        |
| GTIN                                 | 4055626508726 |
| Weight per Piece (including packing) | 114.74 g      |
| Weight per Piece (excluding packing) | 114 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     | 1                                      |
| Mechanical service life | 20000                                  |

### Electrical properties

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

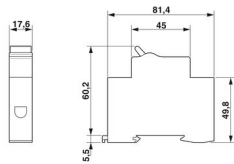
#### General

|                                                 |                            |
|-------------------------------------------------|----------------------------|
| Operating voltage                               | 277 V AC                   |
|                                                 | 60 V DC                    |
| Rated current $I_N$                             | 20 A                       |
| Tripping method                                 | TM (thermomagnetic)        |
| Rated short-circuit switching capacity $I_{cn}$ | 7.5 kA (240 V AC/ 60 V DC) |
|                                                 | 5 kA (277 V AC)            |
| Fuse                                            | C (curve)                  |

### Connection data

|                                  |                                          |
|----------------------------------|------------------------------------------|
| Tightening torque                | ... 2 Nm                                 |
| 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> |

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 17.6 mm                                                                              |

### 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) |

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## Standards and regulations

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

## Mounting

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

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