

TMC 2 M1 120 0,5A - Thermal-magnetic device circuit breaker



0914947

<https://www.phoenixcontact.com/us/products/0914947>

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Thermal-magnetic circuit breaker, 2-pos., normal blow, 1 N/O contact and 1 N/C contact, with universal foot for mounting on NS 32 or NS 35

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 0914947 |
| Packing unit | 3 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL04 |
| Product key | CLA121 |
| GTIN | 4017918009625 |
| Weight per piece (including packing) | 135.567 g |
| Weight per piece (excluding packing) | 135.567 g |
| Customs tariff number | 85362010 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|-----------------------|--|
| Product type | Thermomagnetic device circuit breakers |
| Product family | TMC |
| Type | DIN rail module, one-piece |
| Number of positions | 2 |
| Number of connections | 4 |
| Number of rows | 2 |
| No. of channels | 1 |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 2 |

Electrical properties

| | |
|-----------|------------------|
| Fuse type | Automatic device |
|-----------|------------------|

General

| | |
|---|---------------------------------------|
| Rated voltage | 250 V AC (3 AC 433 V) |
| | 65 V DC |
| Rated current I_N | 0.5 A |
| Rated surge voltage | 2.5 kV |
| Insulation resistance R_{iso} | > 100 M Ω (500 V DC) |
| Auxiliary circuit | 240 V AC / 1 A (Low-induction) |
| | 65 V AC / 1 A (Low-induction) |
| Tripping method | TM (thermal-magnetic) |
| Device resistance | 4.1 Ω |
| Rated short-circuit switching capacity I_{cn} | 400 A |
| | 2500 A (32 V DC) |
| Short-circuit switching capacity | 5000 A (UL 1077: 277/480 V) |
| | 2000 A (UL 1077: 65 V DC) |
| Dielectric strength | 3000 V AC (Actuation area) |
| | 3000 V AC (Main to auxiliary circuit) |
| | 1500 V AC (Position to position) |
| Switching cycles, max. | 10000 (At $1 \times I_N$, inductive) |
| Fuse | M1 (normal blow) |
| Contact switching type | 1 N/O contact |
| | 1 N/C contact |

Indicator/remote signaling

| | |
|-------------------|--------------------------|
| Connection name | Auxiliary contact |
| Operating voltage | 240 V AC |
| | 65 V DC |
| Operating current | 0.5 A AC (Low-induction) |

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Connection data

Main contact

| | |
|---|--|
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 12 mm |
| Internal cylindrical gage | A3 |
| Conductor cross-section rigid | 0.2 mm ² ... 6 mm ² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm ² ... 4 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm ² ... 2.5 mm ² |
| 2 conductors with same cross section, rigid | 0.2 mm ² ... 0.75 mm ² |
| 2 conductors with same cross section, flexible | 0.2 mm ² ... 0.75 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 1 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 2.5 mm ² |
| Nominal current | 0.5 A |
| Nominal voltage | 250 V AC |
| | 65 V DC |

Auxiliary contact

| | |
|---|--|
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 12 mm |
| Internal cylindrical gage | A1 |
| Conductor cross-section rigid | 0.2 mm ² ... 2.5 mm ² |
| Cross section AWG | 24 ... 14 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm ² ... 2.5 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, rigid | 0.2 m ² ... 0.75 m ² |
| 2 conductors with same cross section, flexible | 0.2 m ² ... 0.75 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 0.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 0.75 mm ² |
| Nominal current | 0.5 A |
| Nominal voltage | 250 V AC |
| | 65 V DC |

Main contact

| | |
|-------------------|------------------|
| Connection method | Screw connection |
|-------------------|------------------|

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| | |
|---|---|
| Screw thread | M3 |
| Tightening torque | 0.6 Nm ... 0.8 Nm |
| Stripping length | 12 mm |
| Conductor cross-section flexible | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section rigid | 0.2 mm ² ... 6 mm ² |
| Conductor cross-section AWG | 24 ... 10 |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 0.25 mm ² ... 4 mm ² |

Auxiliary contact

| | |
|---|--|
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.6 Nm ... 0.8 Nm |
| Stripping length | 12 mm |
| Conductor cross-section flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 14 |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 0.25 mm ² ... 2.5 mm ² |

Dimensions

| | |
|--------|---------|
| Width | 25 mm |
| Height | 82.5 mm |
| Depth | 96 mm |

Material specifications

| | |
|--|------------------|
| Color | black (RAL 9005) |
| Flammability rating according to UL 94 | V-2 |
| Insulating material group | II |
| Insulating material | PA66 |

Mechanical properties

Mechanical data

| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|------------------------|
| Degree of protection | IP30 (Actuation area) |
| | IP20 (Connection area) |
| Ambient temperature (operation) | -30 °C ... 60 °C |
| Humidity test | 240 h, 95 % RH, 40 °C |

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Standards and regulations

| | |
|--------------------------|----------|
| Standards/specifications | EN 60934 |
| Standards/specifications | UL 1077 |

Mounting

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

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Drawings

Diagram



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Approvals

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 **CSA**
Approval ID: 074317

 **UL Recognized**
Approval ID: FILE E 140459

 **VDE Zeichengenehmigung**
Approval ID: 40029348

UAE-RoHS
Approval ID: 23-10-88787

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27140401 |
| ECLASS-15.0 | 27140401 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC003538 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-25 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | fc685345-268d-42a3-a518-2483dab0a576 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 7.451 kg CO2e |
|---------|---------------|

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