

TMC 2 F1 120 2,5A - Thermal-magnetic device circuit breaker



0914824

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Thermal-magnetic circuit breaker, 2-pos., fast 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 | 0914824 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CL04 |
| Product key | CLA121 |
| GTIN | 4017918009502 |
| Weight per piece (including packing) | 138.3 g |
| Weight per piece (excluding packing) | 138.3 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 |

Insulation characteristics

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

Electrical properties

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

General

| | |
|---|---|
| Rated voltage | 65 V DC |
| Rated current I_N | 2.5 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 | 0.26 Ω |
| Rated short-circuit switching capacity I_{cn} | 400 A 2500 A (32 V DC) |
| Short-circuit switching capacity | 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 | F1 (fast blow) |
| Contact switching type | 1 N/O contact 1 N/C contact |

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 |

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| | |
|---|--|
| 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 | 2.5 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 mm 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 | 2.5 A |
| Nominal voltage | 250 V AC |
| | 65 V DC |

Dimensions

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

Material specifications

| | |
|--|------|
| Flammability rating according to UL 94 | V-2 |
| Insulating material group | II |
| Insulating material | PA66 |

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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 |

Standards and regulations

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

Mounting

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

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