CB TM1 5A M1 P - Thermomagnetic device circuit breaker



2800851

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Thermomagnetic device circuit breaker, 1-pos., tripping characteristic M1 (medium-blow), 1 changeover contact, plug for base element.

Your advantages

- · Individually adjustable with protective plugs
- · Switch higher starting currents with the aid of the M1 characteristic curve
- · Protective plug with fixed nominal current value as protection against unintentional changes
- · Increased safety with electrical isolation in the event of errors

Commercial data

| Item number | 2800851 |
|--------------------------------------|---------------------|
| Packing unit | 1 pc |
| Sales key | CL04 |
| Product key | CLA124 |
| Catalog page | Page 392 (C-4-2019) |
| GTIN | 4046356690027 |
| Weight per piece (including packing) | 44.8 g |
| Weight per piece (excluding packing) | 44.8 g |
| Customs tariff number | 85362010 |
| Country of origin | ID |

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When mounted in rows, the nominal device current can be limited to just 80% or must be overdimensioned accordingly.

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Technical data

General

Notes

| /pe | Male |
|---------------------|--|
| roduct type | Thermomagnetic device circuit breakers |
| roduct family | CB TM |
| lumber of positions | 1 |
| lo. of channels | 1 |

Electrical properties

| Fuse type | Automatic device |
|--|---|
| General | |
| Rated voltage | 50 V DC (IEC 60934) |
| | 50 V DC (UL 1077) |
| | 50 V DC (UL 508 - with plug-in base) |
| | 240 V AC (Ue according to IEC 60934) |
| | 277 V AC (UL 1077) |
| | 277 V AC (UL 508 - with plug-in base) |
| Rated insulation voltage U _i | 277 V AC (UL 1077) |
| | 250 V AC (IEC 60934) |
| Rated current I _N | 5 A (IEC 60934) |
| | 5 A AC (inductive load according to UL 1077) |
| | 5 A DC (low-induction load according to UL 1077) |
| | 5 A AC (inductive load according to UL 508 - with plug-in base) |
| | 5 A DC (low-induction load according to UL 508 - with plug-in base) |
| Rated surge voltage | 2.5 kV (Increased insulation in actuation area) |
| Insulation resistance R _{iso} | > 100 MΩ (500 V DC) |
| Auxiliary circuit | 277 V AC / 0.5 A (Low-induction) |
| | 277 V AC / 1 A (Low-induction, maximum of 2000 cycles) |
| | 50 V DC / 1 A (Low-induction) |
| Type of actuation | S type |
| Tripping method | TM (thermomagnetic) |
| Tripping level | Trip-free mechanism (positive) |
| Device resistance | 60 mΩ |
| Required backup fuse | 20 A (I > I _{cn}) |
| Rated short-circuit switching capacity I _{cn} | 300 A (240 V AC) |
| | |

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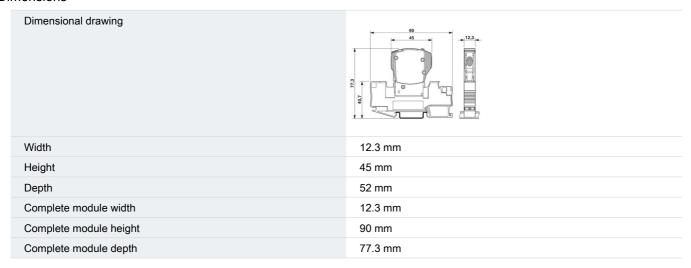
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| | 600 A (50 V DC) |
|--|--|
| Short-circuit switching capacity | 1000 A AC (277 V AC) |
| | 1000 A DC (50 V DC) |
| Dielectric strength | 3000 V AC (Actuation area) |
| | 1500 V AC (Main to auxiliary circuit) |
| | 1500 V AC (Open main circuit) |
| | 1000 V AC (Open auxiliary circuit) |
| Switching cycles, max. | 6000 (at 1 x I _n) |
| Fuse | M1 (normal blow) |
| Power dissipation | 1.5 W (in nominal operation per channel) |
| Voltage drop | 0.31 V (at 1 x I _n) |
| ixiliary contact | |
| Minimum operating voltage \mathbf{U}_{\min} DC | 10 V |
| Maximum operating voltage \mathbf{U}_{max} DC | 240 V |
| Maximum operating voltage $U_{\text{max.}}$ AC | 240 V |
| Minimum operating current I _{min} | 10 mA |
| Max. operating current I _{max} | 1 A |

Connection data

| Connection method | pluggable |
|-------------------|-----------|
| Connection method | pluggable |

Dimensions



Material specifications

| Color | gray (RAL 7042) |
|--|------------------|
| | black (RAL 9005) |
| Flammability rating according to UL 94 | V-0 |
| Insulating material group | II |

Mechanical properties

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| NΛ | ect | an | ıcal | l di | ata |
|----|-----|----|------|------|-----|

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

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP30 (Actuation area) |
|---|--|
| Ambient temperature (operation) | -30 °C 60 °C |
| Ambient temperature (storage/transport) | -40 °C 80 °C |
| Humidity test | 240 h, 95 % RH, 40 °C |
| Shock (operation) | 30g (According to IEC 60068-2-27, Test Ea) |
| Vibration (operation) | 8g (in accordance with IEC 60068-2-6, Test Fc) |

Approvals

UL approval

| Identification | UL Listed UL 508 |
|-----------------------|------------------------------|
| | UL/C-UL Recognized UL 1077 |
| CSA | |
| Identification | CSA CAN/CSA-C22.2 No. 235-04 |
| Shipbuilding approval | |
| Identification | DNV GL |
| Identification | DNV GL |

Standards and regulations

| Standards/specifications | EN 60934 |
|--------------------------|----------|
|--------------------------|----------|

Mounting

| Mounting type | on base element |
|-------------------|-----------------|
| Connection method | pluggable |

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