

CB TM2 0.5A M1 P - Thermal-magnetic device circuit breaker



2800879

<https://www.phoenixcontact.com/us/products/2800879>

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Thermal-magnetic device circuit breaker, 2-pos., tripping characteristic M1 (medium-blow), 2 changeover contacts, plug for base element.

Product description

Thermal-magnetic device circuit breaker

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2800879 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL04 |
| Product key | CLA124 |
| GTIN | 4046356690409 |
| Weight per piece (including packing) | 72.3 g |
| Weight per piece (excluding packing) | 72.3 g |
| Customs tariff number | 85362010 |
| Country of origin | ID |

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Technical data

Notes

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

Product properties

| | |
|---------------------|--|
| Product type | Thermomagnetic device circuit breakers |
| Product family | CB TM |
| Type | Male |
| Number of positions | 2 |
| No. of channels | 1 |

Insulation characteristics

| | |
|---------------------|---|
| Degree of pollution | 2 |
|---------------------|---|

Electrical properties

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

General

| | |
|--|---|
| Rated voltage | 80 V DC (IEC 60934) |
| | 80 V DC (UL 1077) |
| | 80 V DC (UL 508 - with plug-in base) |
| | 240 V AC (U _e 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 | 0.5 A (IEC 60934) |
| | 0.5 A AC (inductive load according to UL 1077) |
| | 0.5 A DC (low-induction load according to UL 1077) |
| | 0.5 A AC (inductive load according to UL 508 - with plug-in base) |
| | 0.5 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 (thermal-magnetic) |
| Tripping level | Trip-free mechanism (positive) |
| Device resistance | 4.9 Ω |
| Required backup fuse | ≥ 15 A (I > I _{cn}) |
| Rated short-circuit switching capacity I _{cn} | 400 A (240 V AC) |

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| | |
|----------------------------------|---|
| | 600 A (80 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) |
| | 1500 V AC (Position to position) |
| Switching cycles, max. | 6000 (240 V AC / 1 x I _n) |
| | 3000 (80 V DC/1 x I _n) |
| Fuse | M1 (normal blow) |
| Power dissipation | 1.25 W (in nominal operation per channel) |
| Voltage drop | 2.5 V (at 1 x I _n) |
| Contact switching type | 2 changeover contacts |

Auxiliary contact

| | |
|---|-------|
| Minimum operating voltage U _{min} DC | 10 V |
| Maximum operating voltage U _{max} DC | 240 V |
| Maximum operating voltage U _{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

| | |
|---------------------|---------|
| Dimensional drawing | |
| Width | 24.6 mm |
| Height | 45 mm |
| Depth | 52 mm |

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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Mechanical data

| | |
|-----------------|----|
| 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 (IEC 60068-2-27, Test Ea) |
| Vibration (operation) | 8g (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 |
|----------------|--------|

Standards and regulations

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

Mounting

| | |
|---------------|-----------------|
| Mounting type | on base element |
|---------------|-----------------|

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Drawings

Dimensional drawing



The figure shows the complete module consisting of a base element and connector

Application drawing



The figure shows the single-position versions

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Application drawing



Diagram



Trigger characteristic
 Gray: DC range, blue: AC range

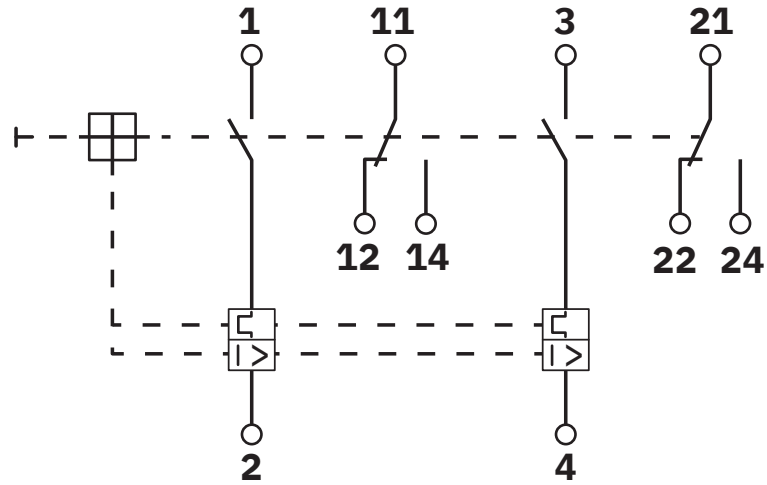
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Circuit diagram



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Approvals

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cUL Recognized
Approval ID: FILE E 140459



UL Recognized
Approval ID: FILE E 140459



DNV GL
Approval ID: TAE00003C7



VDE Zeichengenehmigung
Approval ID: 40034683



CCC
Approval ID: 2025010307749779



CSA
Approval ID: 2786957



KC
Approval ID: SW05012-15005

UAE-RoHS

Approval ID: 22-09-50937

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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, 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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|--------------|
| CO2e kg | 8.87 kg CO2e |
|---------|--------------|

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com