

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



2800879

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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 |

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



2800879

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

Technical data

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) |
| | 600 A (80 V DC) |
| Short-circuit switching capacity | 1000 A AC (277 V AC) |
| | 1000 A DC (50 V DC) |

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



2800879

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

| | |
|------------------------|---|
| 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

Mechanical data

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

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



2800879

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

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 |
|---------------|-----------------|

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

2800879

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

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

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



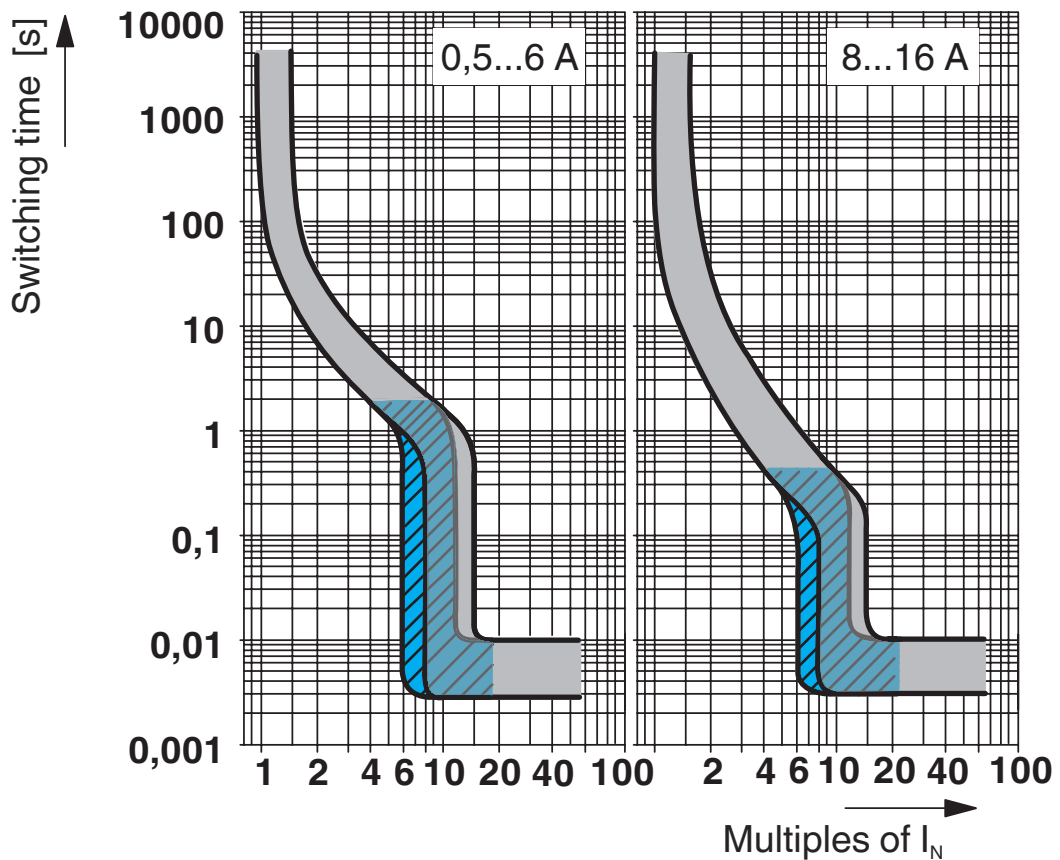
2800879

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

Application drawing



Diagram



Trigger characteristic
 Gray: DC range, blue: AC range

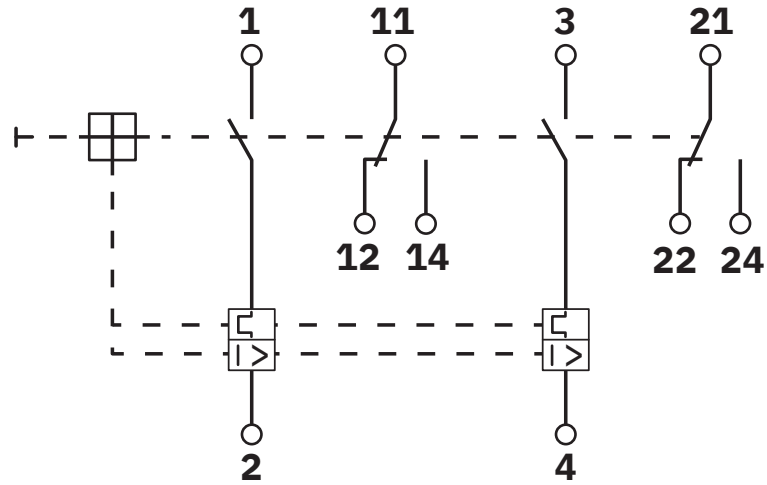
CB TM2 0.5A M1 P - Thermal-magnetic device circuit breaker



2800879

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

Circuit diagram



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



2800879

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

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2800879>



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

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



2800879

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

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

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



2800879

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

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 |
|---------|--------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

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