

Thermomagnetic device circuit breaker - CB TM1 8A SFB P - 2800842

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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 PDT contact, plug for base element.

The figure shows the CB TM1 0.5A SFB P version

Product Features

- ✓ Compact design with precise nominal current levels
- ✓ Modular expansion possible thanks to the uniform, plug-in housing concept
- ✓ Sophisticated remote signaling concept enables monitoring from any location
- ✓ Maximum overcurrent protection across long cable paths via SFB trigger characteristic
- ✓ Supply/remote signaling can be bridged with CLIPLINE complete accessories



Key commercial data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 40.0 GRM |
| Custom tariff number | 85363010 |
| Country of origin | Germany |

Technical data

General

| | |
|---|---|
| Installation instructions | When mounted in rows, the nominal device current can be limited to just 80% or must be overdimensioned accordingly. |
| Inflammability class according to UL 94 | V0 |
| Mounting type | On base element |
| Color | gray |
| Number of positions | 1 |
| Insulating material group | II |
| Pollution degree | 2 |
| Type | Male |

Thermomagnetic device circuit breaker - CB TM1 8A SFB P - 2800842

Technical data

Electrical data

| | |
|--|---|
| Fuse type | SFB |
| Rated surge voltage | 2.5 kV (Increased insulation in actuation area) |
| Rated voltage | 240 V AC (U _e according to IEC 60934) |
| | 277 V AC (UL 1077) |
| | 277 V AC (UL 508 - with plug-in base) |
| | 50 V DC (IEC 60934) |
| | 50 V DC (UL 1077) |
| | 50 V DC (UL 508 - with plug-in base) |
| Rated current I _n | 8 A (IEC 60934) |
| | 8 A AC (inductive load according to UL 1077) |
| | 8 A DC (low-induction load according to UL 1077) |
| | 8 A AC (inductive load according to UL 508 - with plug-in base) |
| | 8 A DC (low-induction load according to UL 508 - with plug-in base) |
| Rated insulation voltage U _i | 277 V AC (UL 1077) |
| | 250 V AC (IEC 60934) |
| 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) |
| Minimum auxiliary contact operating voltage | 10 V |
| Maximum auxiliary contact operating voltage | 240 V |
| | 240 V |
| Minimum auxiliary contact operating current | 10 mA |
| Maximum auxiliary contact operating current | 1 A |
| Type of actuation | S type |
| Tripping method | TM (thermomagnetic) |
| Tripping level | Trip-free mechanism (positive) |
| Required backup fuse | 32 A |
| Rated short-circuit switching capacity I _{cn} | 300 A (240 V AC) |
| | 600 A (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) |
| Voltage drop | 0.14 V (at 1 x I _n) |
| Cycles, max. | 6000 (at 1 x I _n) |
| Contact type | 1 PDT |

Thermomagnetic device circuit breaker - CB TM1 8A SFB P - 2800842

Technical data

Dimensions

| | |
|------------------------|---------|
| Height | 45 mm |
| Width | 12.3 mm |
| Depth | 52 mm |
| Complete module height | 90 mm |
| Complete module width | 12.3 mm |
| Complete module depth | 77.3 mm |

Ambient conditions

| | |
|---|-----------------------|
| Ambient temperature (operation) | -30 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Degree of protection | IP30 (Actuation area) |

Standards and Regulations

| | |
|--------------------------|----------------------|
| Standards/specifications | EN 60934 |
| | UL 1077 |
| | UL 508 |
| | CSA 22.2 No. 235-041 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27141116 |
| eCl@ss 4.1 | 27141116 |
| eCl@ss 5.0 | 27141116 |
| eCl@ss 5.1 | 27141116 |
| eCl@ss 6.0 | 27141116 |
| eCl@ss 7.0 | 27141116 |
| eCl@ss 8.0 | 27141116 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC000899 |
| ETIM 4.0 | EC000899 |
| ETIM 5.0 | EC000899 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211812 |
| UNSPSC 7.0901 | 39121411 |
| UNSPSC 11 | 39121411 |
| UNSPSC 12.01 | 39121411 |

Thermomagnetic device circuit breaker - CB TM1 8A SFB P - 2800842

Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121411 |
|-------------|----------|

Approvals

Approvals

Approvals

VDE Zeichengenehmigung / UL Recognized / cUL Recognized / GL / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

VDE Zeichengenehmigung

UL Recognized

cUL Recognized

GL

cULus Recognized

Accessories

Required add-on products

Thermomagnetic device circuit breaker - CB TM1 8A SFB P - 2800842

Accessories

Base element - CB 1/6-2/4 PT-BE - 2800929



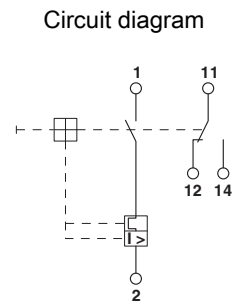
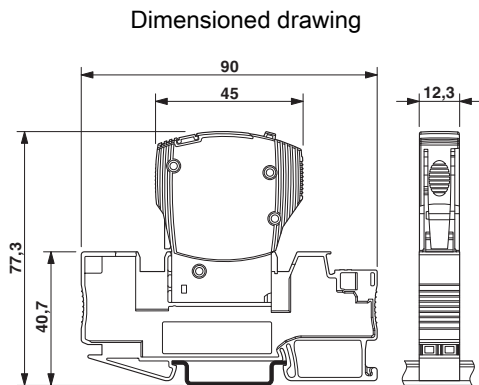
Base element with push-in connection technology for CB ... device circuit breakers

Base element - CB 1/10-1/10 UT-BE - 2801305



Base element with screw connection technology for CB... device circuit breakers

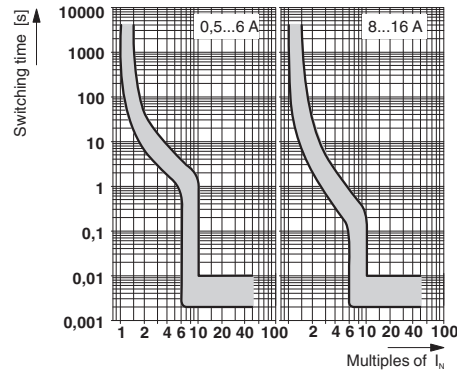
Drawings



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

Thermomagnetic device circuit breaker - CB TM1 8A SFB P - 2800842

Diagram



Trigger characteristic in the DC range

Application drawing

