

# Thermomagnetic device circuit breaker - CB TM2 8A SFB

## P - 2800875

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Thermomagnetic device circuit breaker, 2-pos., tripping characteristic SFB, 2 PDT contacts, plug for base element.

The figure shows the CB TM2  
0.5A SFB P version

### Product description

Thermomagnetic device circuit breaker



### Key commercial data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 0                                                                                                       |
| Minimum order quantity | 1                                                                                                       |
| GTIN                   | <br>4 046356 690317 |
| 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 oversized accordingly. |
| Height                                  | 45 mm                                                                                                         |
| Width                                   | 24.6 mm                                                                                                       |
| Depth                                   | 52 mm                                                                                                         |
| Ambient temperature (operation)         | -30 °C ... 60 °C                                                                                              |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                                                                                              |
| Inflammability class according to UL 94 | V0                                                                                                            |
| Degree of protection                    | IP30 (Actuation area)                                                                                         |
| Mounting type                           | On base element                                                                                               |
| Color                                   | gray                                                                                                          |
| Number of positions                     | 2                                                                                                             |
| Insulating material group               | II                                                                                                            |
| Pollution degree                        | 2                                                                                                             |

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### Technical data

#### Technical data

|                                                 |                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------|
| Fuse type                                       | SFB                                                                 |
| Rated surge voltage                             | 2.5 kV (Increased insulation in actuation area)                     |
| Rated voltage                                   | 240 V AC (Ue according to IEC 60934)                                |
| Rated voltage                                   | 277 V AC (UL 1077)                                                  |
| Rated voltage                                   | 277 V AC (UL 508 - with plug-in base)                               |
| Rated voltage                                   | 80 V DC (IEC 60934)                                                 |
| Rated voltage                                   | 80 V DC (UL 1077)                                                   |
| Rated voltage                                   | 80 V DC (UL 508 - with plug-in base)                                |
| Rated current $I_n$                             | 8 A (IEC 60934)                                                     |
| Rated current $I_n$                             | 8 A AC (inductive load according to UL 1077)                        |
| Rated current $I_n$                             | 8 A DC (low-induction load according to UL 1077)                    |
| Rated current $I_n$                             | 8 A AC (inductive load according to UL 508 - with plug-in base)     |
| Rated current $I_n$                             | 8 A DC (low-induction load according to UL 508 - with plug-in base) |
| Rated insulation voltage $U_i$                  | 277 V AC (UL 1077)                                                  |
| Rated insulation voltage $U_i$                  | 250 V AC (IEC 60934)                                                |
| Insulation resistance $R_{iso}$                 | > 100 MΩ (500 V DC)                                                 |
| Auxiliary circuit                               | 277 V AC / 0.5 A (Low-induction)                                    |
| Auxiliary circuit                               | 277 V AC / 1 A (Low-induction, maximum of 2000 cycles)              |
| Auxiliary circuit                               | 50 V DC / 1 A (Low-induction)                                       |
| 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 $I_{cn}$ | 400 A (240 V AC)                                                    |
| Rated short-circuit switching capacity $I_{cn}$ | 600 A (80 V DC)                                                     |
| Dielectric strength                             | 3000 V AC (Actuation area)                                          |
| Dielectric strength                             | 1500 V AC (Main to auxiliary circuit)                               |
| Dielectric strength                             | 1500 V AC (Open main circuit)                                       |
| Dielectric strength                             | 1000 V AC (Open auxiliary circuit)                                  |
| Dielectric strength                             | 1500 V AC (Position to position)                                    |
| Voltage drop                                    | 0.14 V (at 1 x $I_n$ )                                              |
| Cycles, max.                                    | 6000 (240 V AC/1 x $I_n$ )                                          |
| Cycles, max.                                    | 3000 (80 V DC/1 x $I_n$ )                                           |
| Contact type                                    | 2 PDT                                                               |

#### Standards

|                              |                      |
|------------------------------|----------------------|
| Standard - Electrical safety | EN 60934             |
| Standard - Electrical safety | UL 1077              |
| Standard - Electrical safety | UL 508               |
| Standard - Electrical safety | CSA 22.2 No. 235-041 |

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## Classifications

### ETIM

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

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 11     | 39121411 |
| UNSPSC 12.01  | 39121411 |
| UNSPSC 13.2   | 39121411 |
| UNSPSC 6.01   | 30211812 |
| UNSPSC 7.0901 | 39121411 |

### 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 |

## Approvals

### Approvals

#### Approvals

VDE Zeichengenehmigung / UL Recognized / cUL Recognized / cULus Recognized

#### Ex Approvals

#### Approvals submitted

### Approval details

VDE Zeichengenehmigung 

UL Recognized 

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## Approvals

cUL Recognized 

cULus Recognized 

## Accessories

### Additional products

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



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

Jumper - CB PT BRIDGE - 2801014



Bridge plugs for the CB 1/6-2/4 PT-BE base element

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, Number of positions: 2, Color: red

Plug-in bridge - FBS 3-6 - 3030242



Plug-in bridge, Number of positions: 3, Color: red

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### Accessories

Plug-in bridge - FBS 4-6 - 3030255



Plug-in bridge, Number of positions: 4, Color: red

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Plug-in bridge - FBS 5-6 - 3030349



Plug-in bridge, Number of positions: 5, Color: red

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Plug-in bridge - FBS 10-6 - 3030271



Plug-in bridge, Number of positions: 10, Color: red

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Plug-in bridge - FBS 20-6 - 3030365



Plug-in bridge, Number of positions: 20, Color: red

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Plug-in bridge - FBS 50-6 - 3032224



Plug-in bridge, Number of positions: 50, Color: red

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## Accessories

Cable-cutting tool - CUTFOX-FBS - 1212124

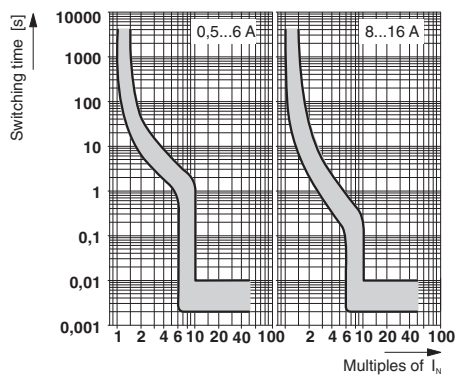


Cutting tool, for separating individual jumper bars from FBS ... plug-in bridges and EB ... insertion bridges

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## Drawings

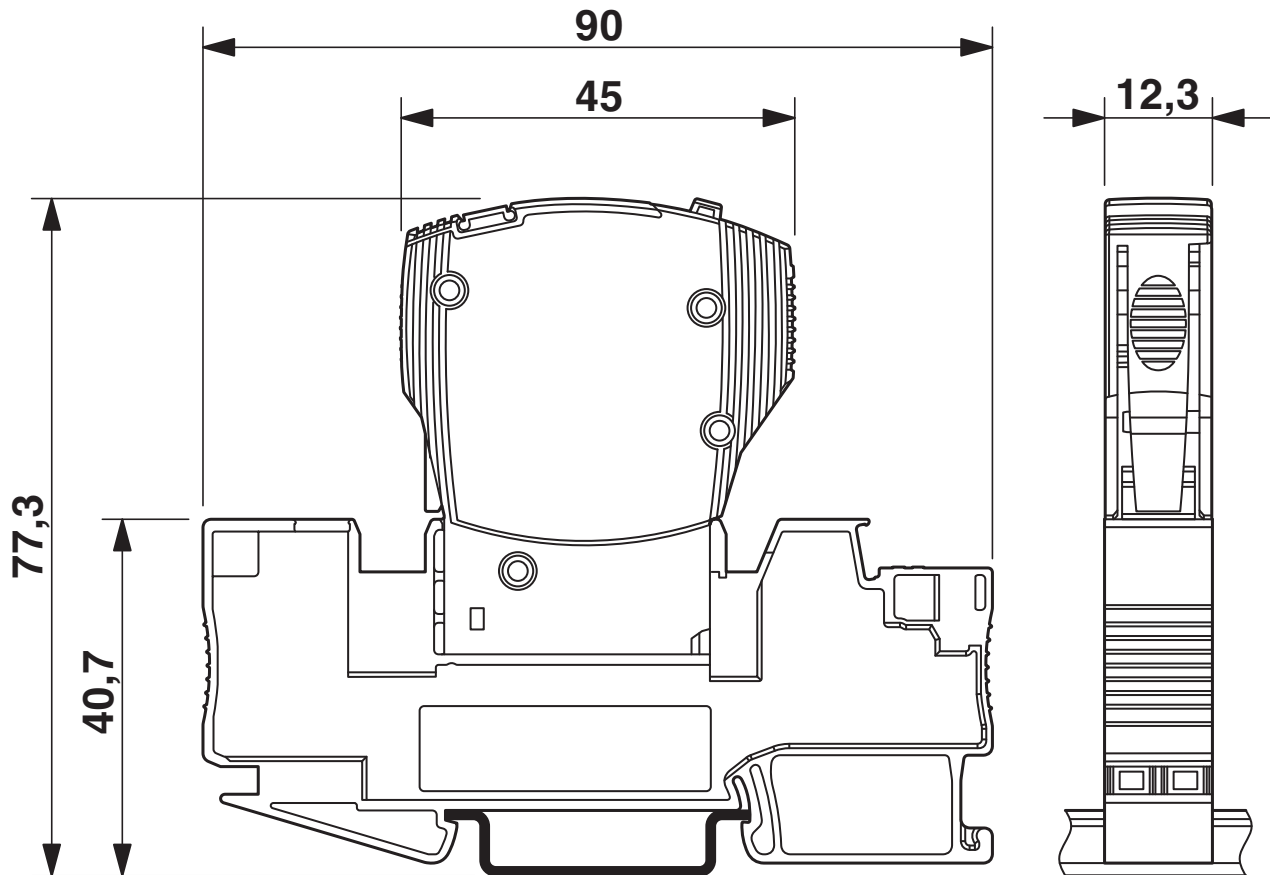
### Diagram



Trigger characteristic in the DC range

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Dimensioned drawing



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

