

# Thermomagnetic device circuit breaker - CB TM1 5A SFB P - 2800840

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

## Why buy this product

- ✓ 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	0
Minimum order quantity	1
GTIN	 4 046356 689915
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.
Height	45 mm
Width	12.3 mm
Depth	52 mm
Höhe Kompletmodul	90 mm
Breite Kompletmodul	12.3 mm
Tiefe Kompletmodul	77.3 mm
Ambient temperature (operation)	-30 °C ... 60 °C

# Thermomagnetic device circuit breaker - CB TM1 5A SFB P - 2800840

## Technical data

### General

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	1
Insulating material group	II
Pollution degree	2
Design	Male

### Technical data

Fuse type	SFB
Rated surge voltage	2.5 kV (Increased insulation in actuation area)
Rated voltage	240 V AC (U <sub>e</sub> according to IEC 60934)
Rated voltage	277 V AC (UL 1077)
Rated voltage	277 V AC (UL 508 - with plug-in base)
Rated voltage	50 V DC (IEC 60934)
Rated voltage	50 V DC (UL 1077)
Rated voltage	50 V DC (UL 508 - with plug-in base)
Rated current I <sub>n</sub>	5 A (IEC 60934)
Rated current I <sub>n</sub>	5 A AC (inductive load according to UL 1077)
Rated current I <sub>n</sub>	5 A DC (low-induction load according to UL 1077)
Rated current I <sub>n</sub>	5 A AC (inductive load according to UL 508 - with plug-in base)
Rated current I <sub>n</sub>	5 A DC (low-induction load according to UL 508 - with plug-in base)
Rated insulation voltage U <sub>i</sub>	277 V AC (UL 1077)
Rated insulation voltage U <sub>i</sub>	250 V AC (IEC 60934)
Insulation resistance R <sub>iso</sub> :	> 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	20 A
Rated short-circuit switching capacity I <sub>cn</sub>	300 A (240 V AC)
Rated short-circuit switching capacity I <sub>cn</sub>	600 A (50 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)
Voltage drop	0.31 V (at 1 x I <sub>n</sub> )

# Thermomagnetic device circuit breaker - CB TM1 5A SFB P - 2800840

## Technical data

### Technical data

Cycles, max.	6000 (at 1 x I <sub>n</sub> )
Contact type	1 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

## 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

---

# Thermomagnetic device circuit breaker - CB TM1 5A SFB P - 2800840

## Approvals


Approvals submitted


---

### Approval details

VDE Zeichengenehmigung 

UL Recognized 

cUL Recognized 

cULus Recognized 

## Accessories

Accessories

Bridges

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

# Thermomagnetic device circuit breaker - CB TM1 5A SFB P - 2800840

## Accessories

Plug-in bridge - FBS 4-6 - 3030255



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

---

Plug-in bridge - FBS 5-6 - 3030349



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

---

Plug-in bridge - FBS 10-6 - 3030271



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

---

Plug-in bridge - FBS 20-6 - 3030365



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

---

Plug-in bridge - FBS 50-6 - 3032224



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

---

## Marking

# Thermomagnetic device circuit breaker - CB TM1 5A SFB P - 2800840

## Accessories

Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735



Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 12 mm, Lettering field: 5.15 x 12.15 mm

Zack Marker strip, flat - ZBF 12 CUS - 0825018



Zack Marker strip, flat, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 12 mm, Lettering field: 5.15 x 12.15 mm

## Tools

Cable-cutting tool - CUTFOX-FBS - 1212124



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

Jumper - CB PT BRIDGE - 2801014



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

## Additional products

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

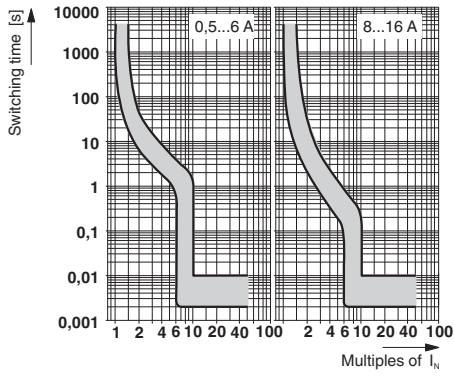


Base element with push-in connection technology for CB ... device circuit breakers

## Drawings

# Thermomagnetic device circuit breaker - CB TM1 5A SFB P - 2800840

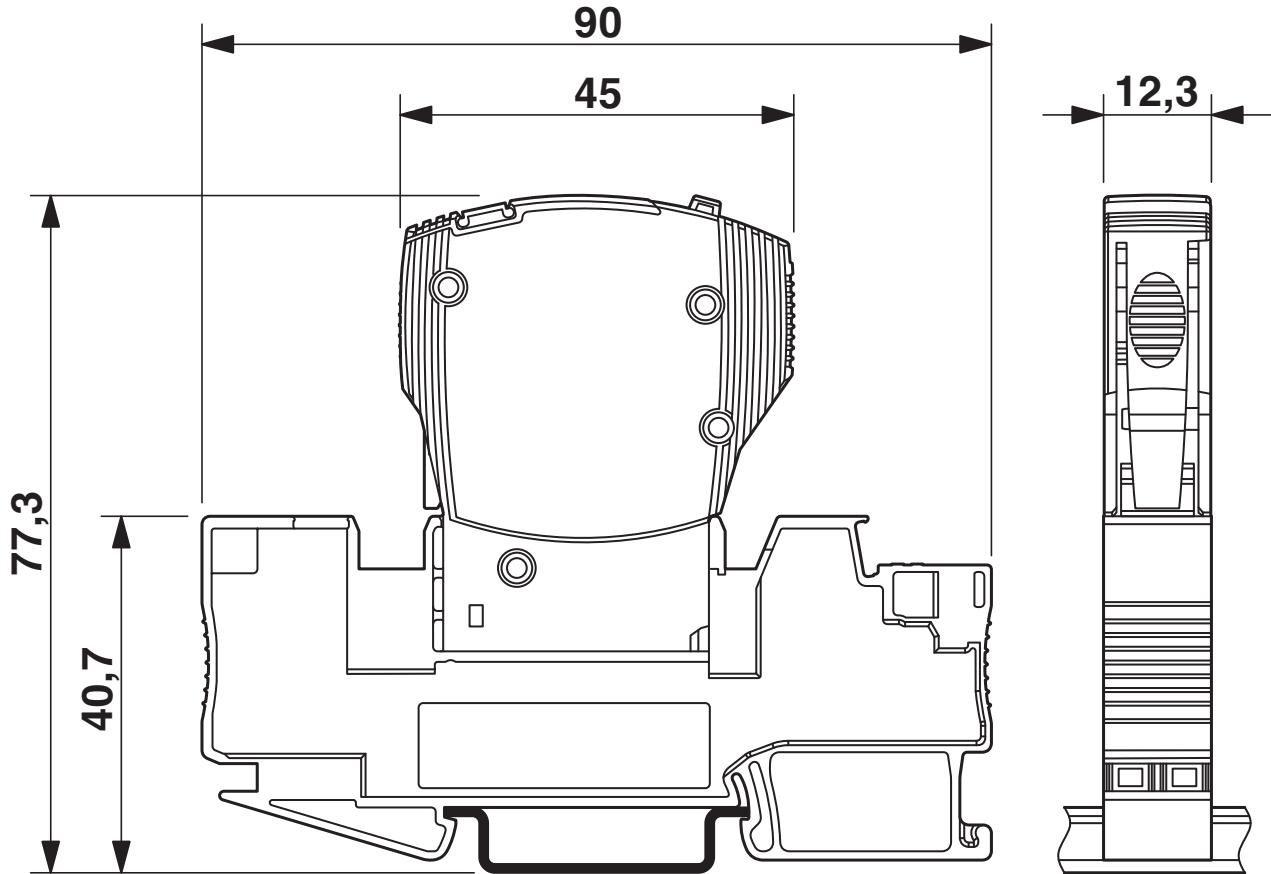
Diagram



Trigger characteristic in the DC range

# Thermomagnetic device circuit breaker - CB TM1 5A SFB P - 2800840

Dimensioned drawing



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



