

2800844 Datasheet



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| | |
|------------------------------|---|
| DiGi Electronics Part Number | 2800844-DG |
| Manufacturer | Phoenix Contact |
| Manufacturer Product Number | 2800844 |
| Description | CIR BRKR 12A 277VAC 50VDC |
| Detailed Description | Circuit Breaker Thermal Magnetic 12A 277 V AC 50 V DC Slide Switch Holder |

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Purchase and inquiry

Manufacturer Product Number:

2800844

Series:

CB

Mounting Type:

Holder

Current Rating (Amps):

12A

Voltage Rating - DC:

50 V

Number of Poles:

1

Illumination Voltage (Nominal):

-

Manufacturer:

Phoenix Contact

Product Status:

Active

Breaker Type:

Thermal Magnetic

Voltage Rating - AC:

277 V

Actuator Type:

Slide Switch

Illumination:

-

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.20.0020

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

Thermomagnetic device circuit breaker - CB TM1 12A SFB P - 2800844

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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 689953 |
| 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 12A SFB P - 2800844

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 _e 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 _n | 12 A (IEC 60934) |
| Rated current I _n | 12 A AC (inductive load according to UL 1077) |
| Rated current I _n | 12 A DC (low-induction load according to UL 1077) |
| Rated current I _n | 12 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 | 48 A |
| Rated short-circuit switching capacity I _{cn} | 300 A (240 V AC) |
| Rated short-circuit switching capacity I _{cn} | 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 | 0.13 V (at 1 x I _n) |
| Cycles, max. | 6000 (at 1 x I _n) |

Thermomagnetic device circuit breaker - CB TM1 12A SFB P - 2800844

Technical data

Technical data

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


Approvals submitted

Thermomagnetic device circuit breaker - CB TM1 12A SFB P - 2800844

Approvals

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 12A SFB P - 2800844

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 12A SFB P - 2800844

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

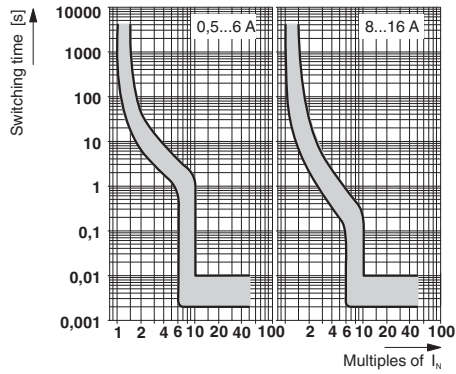


Base element with push-in connection technology for CB ... device circuit breakers

Drawings

Thermomagnetic device circuit breaker - CB TM1 12A SFB P - 2800844

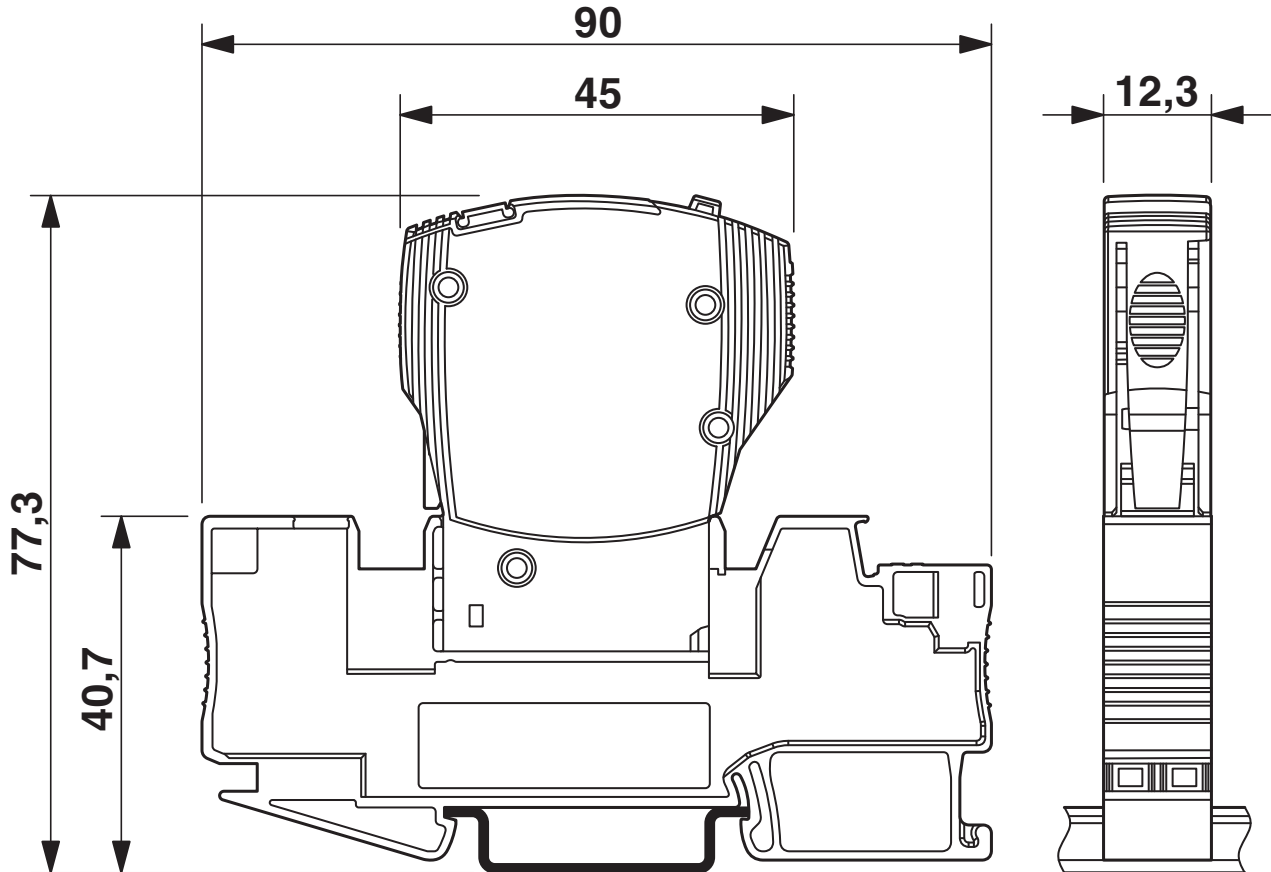
Diagram



Trigger characteristic in the DC range

Thermomagnetic device circuit breaker - CB TM1 12A SFB P - 2800844

Dimensioned drawing



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

<https://www.phoenixcontact.com/us/produkte/2800844>



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