

# TMC 83B 50A - Thermomagnetic device circuit breaker



1010307

<https://www.phoenixcontact.com/us/products/1010307>

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Thermomagnetic device circuit breaker, number of positions: 3, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: DIN rail, Color: gray



## Commercial Data

Item number	1010307
Packing unit	1 pc
Note	Made to Order (non-returnable)
Sales Key	CL08
Product Key	CLA125
GTIN	4055626484211
Weight per Piece (including packing)	222.222 g
Weight per Piece (excluding packing)	222.222 g
Customs tariff number	85362010
Country of origin	CN

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## Technical Data

### Product properties

Type	DIN rail module, one-piece
Product type	Thermomagnetic device circuit breakers
Product family	TMC 8
Number of positions	3
Mechanical service life	20000

### Electrical properties

Service life electrical	6000
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#### General

Operating voltage	240 V AC (Delta)
Rated current $I_N$	50 A
Tripping method	TM (thermomagnetic)
Rated short-circuit switching capacity $I_{cn}$	10 kA (IC)
Fuse	B

### Connection data

Tightening torque	... 2 Nm
Conductor cross section rigid	1 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Cross section AWG	18 ... 2 (converted acc. to IEC)
Conductor cross section flexible	1 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Connection method	Screw
Tightening torque, min	2 Nm
Conductor cross section flexible max.	35 mm <sup>2</sup>
Conductor cross section, rigid max.	35 mm <sup>2</sup>

### Dimensions

Dimensional drawing	
Width	52.9 mm
Height	116 mm
Depth	65.7 mm

### Material specifications

Color	gray
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### Environmental and real-life conditions

#### Ambient conditions

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Ambient temperature (operation)	-35 °C ... 70 °C
Humidity test	48 h, 95% RH, 40°C (IEC 60068-2-78)
Shock (operation)	30g (11 ms) (IEC 60068-2-11)
Vibration (operation)	±0.38 mm (10-57 Hz), 5g (57...500 Hz) (IEC 60068-2-6, Fc, sine)

## Standards and regulations

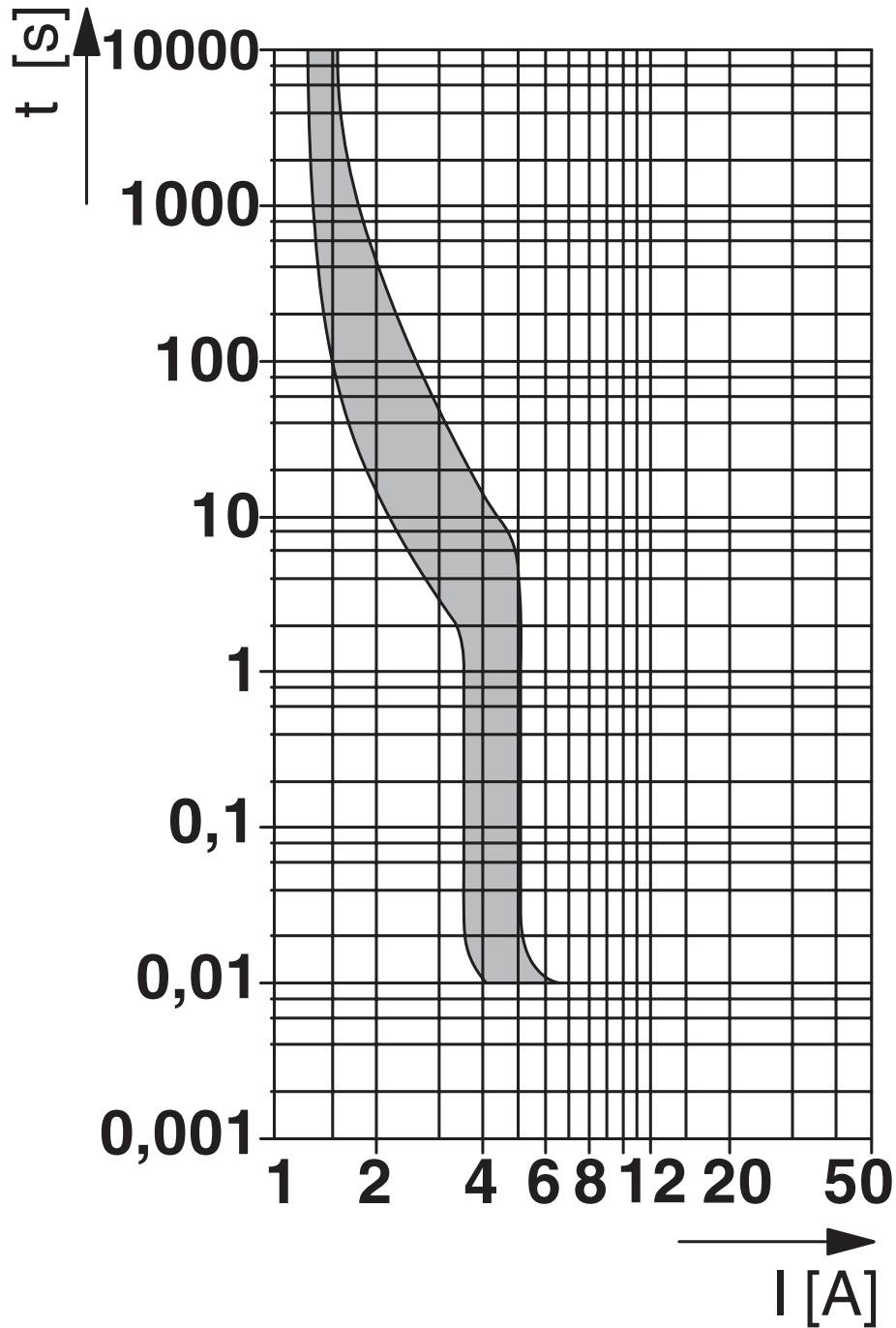
Standards/specifications	UL 489
Standards/specifications	IEC 60947-2

## Mounting

Mounting type	DIN rail
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Drawings

Diagram



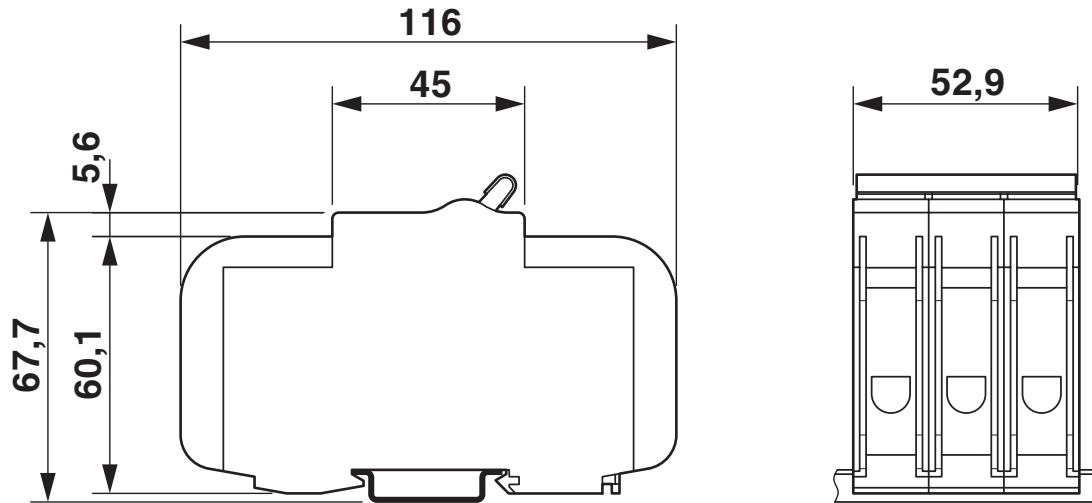
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Dimensional drawing



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## Approvals



**UL Listed**

Approval ID: FILE E 320373



**cUL Listed**

Approval ID: FILE E 320373



**TÜV Rheinland**

Approval ID: R 50531587

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## Classifications

### ECLASS

ECLASS-11.0	27141116
ECLASS-12.0	27141116
ECLASS-13.0	27250113

### ETIM

ETIM 7.0	EC000899
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### UNSPSC

UNSPSC 21.0	39121410
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## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
	Cadmium oxide 1306-19-0



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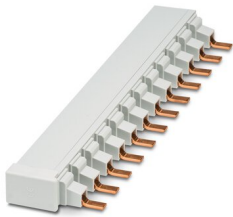
<https://www.phoenixcontact.com/us/products/1010307>

## Accessories

### TMC 8 B3 80 57 C - Wiring bridge

2907996

<https://www.phoenixcontact.com/us/products/2907996>



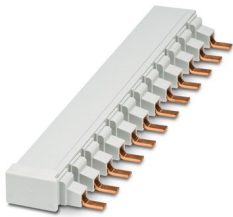
Bus bar for TMC 83... circuit breakers (three phase) 17.8 mm pitch, up to 57 positions. Rated for 80 A (end feed) 600 V AC/DC. UL 508 Listed for connection of UL 489 rated circuit breakers.

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### TMC 8 B3 80 48 CA - Wiring bridge

2907997

<https://www.phoenixcontact.com/us/products/2907997>



Bus bar for TMC 83... circuit breakers (three phase) with auxilliary switch. 17.8 mm pitch, up to 48 positions. Rated for 80 A (end feed) 600 V AC/DC. UL 508 Listed for connection of UL 489 rated circuit breakers.

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## TMC 8 B TERM PIN - Terminal adapter

2907998

<https://www.phoenixcontact.com/us/products/2907998>

Feeder terminal adapter for TMC 8..... circuit breaker bus bars. Rated for 1000 V AC/DC, 115 A. Wire range 14...2 AWG. UL Listed for connection to UL 489 rated circuit breakers.



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## TMC 8 B END CAP - Wiring bridge end cover

2907999

<https://www.phoenixcontact.com/us/products/2907999>

Protective end covers for TMC 8 bus bars



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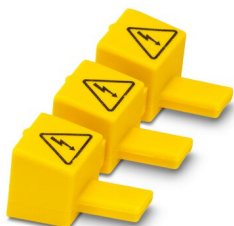
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## TMC 8 B BUS CAP - Protective cover

2908000

<https://www.phoenixcontact.com/us/products/2908000>



Protective covers for TMC 8 bus bars. Cuttable, three positions, yellow.

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## TMC 7/8 AUX - Thermomagnetic device circuit breaker

2908219

<https://www.phoenixcontact.com/us/products/2908219>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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## TMC 7/8 ALARM - Thermomagnetic device circuit breaker

2908220

<https://www.phoenixcontact.com/us/products/2908220>

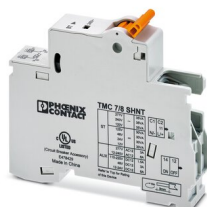


Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

## TMC 7/8 12VDC SHNT - Thermomagnetic device circuit breaker

2908221

<https://www.phoenixcontact.com/us/products/2908221>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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## TMC 7/8 24VDC SHNT - Thermomagnetic device circuit breaker

2908222

<https://www.phoenixcontact.com/us/products/2908222>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

## TMC 7/8 48VDC SHNT - Thermomagnetic device circuit breaker

2908224

<https://www.phoenixcontact.com/us/products/2908224>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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## TMC 7/8 125VDC SHNT - Thermomagnetic device circuit breaker

2908225

<https://www.phoenixcontact.com/us/products/2908225>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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## TMC 7/8 120VAC SHNT - Thermomagnetic device circuit breaker

2908226

<https://www.phoenixcontact.com/us/products/2908226>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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## TMC 7/8 240VAC SHNT - Thermomagnetic device circuit breaker

2908227

<https://www.phoenixcontact.com/us/products/2908227>

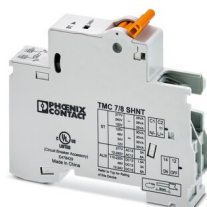


Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

## TMC 7/8 277VAC SHNT - Thermomagnetic device circuit breaker

2908228

<https://www.phoenixcontact.com/us/products/2908228>



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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## EML (10X4)R - Label

0815583

<https://www.phoenixcontact.com/us/products/0815583>



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 10 x 4 mm, Number of individual labels: 10000

## TML (104X3,8)R - Marker strip

0801833

<https://www.phoenixcontact.com/us/products/0801833>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm, Number of individual labels: 2500

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