

Thermomagnetic device circuit breaker - TMC 83D 50A



1010284

<https://www.phoenixcontact.com/us/products/1010284>

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Thermomagnetic device circuit breaker, number of positions: 3, connection method: Screw, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: DIN rail, Color: gray



Commercial Data

Item number	1010284
Packing unit	1 pc
Note	Made to Order (non-returnable)
Sales Key	C29
Product Key	CLA125
GTIN	4055626483832
Weight per Piece (including packing)	423.65 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
Number of positions	3
Mechanical service life	20000

Electrical properties

Service life electrical	6000
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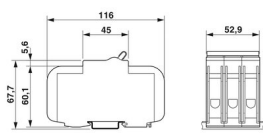
General

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	D

Connection data

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

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

Ambient temperature (operation)	-35 °C ... 70 °C
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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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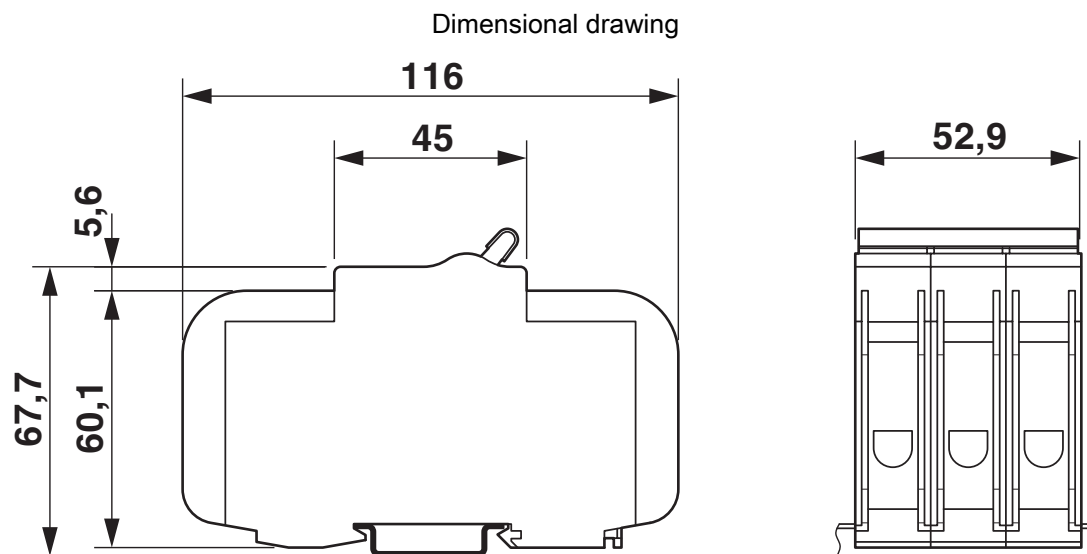
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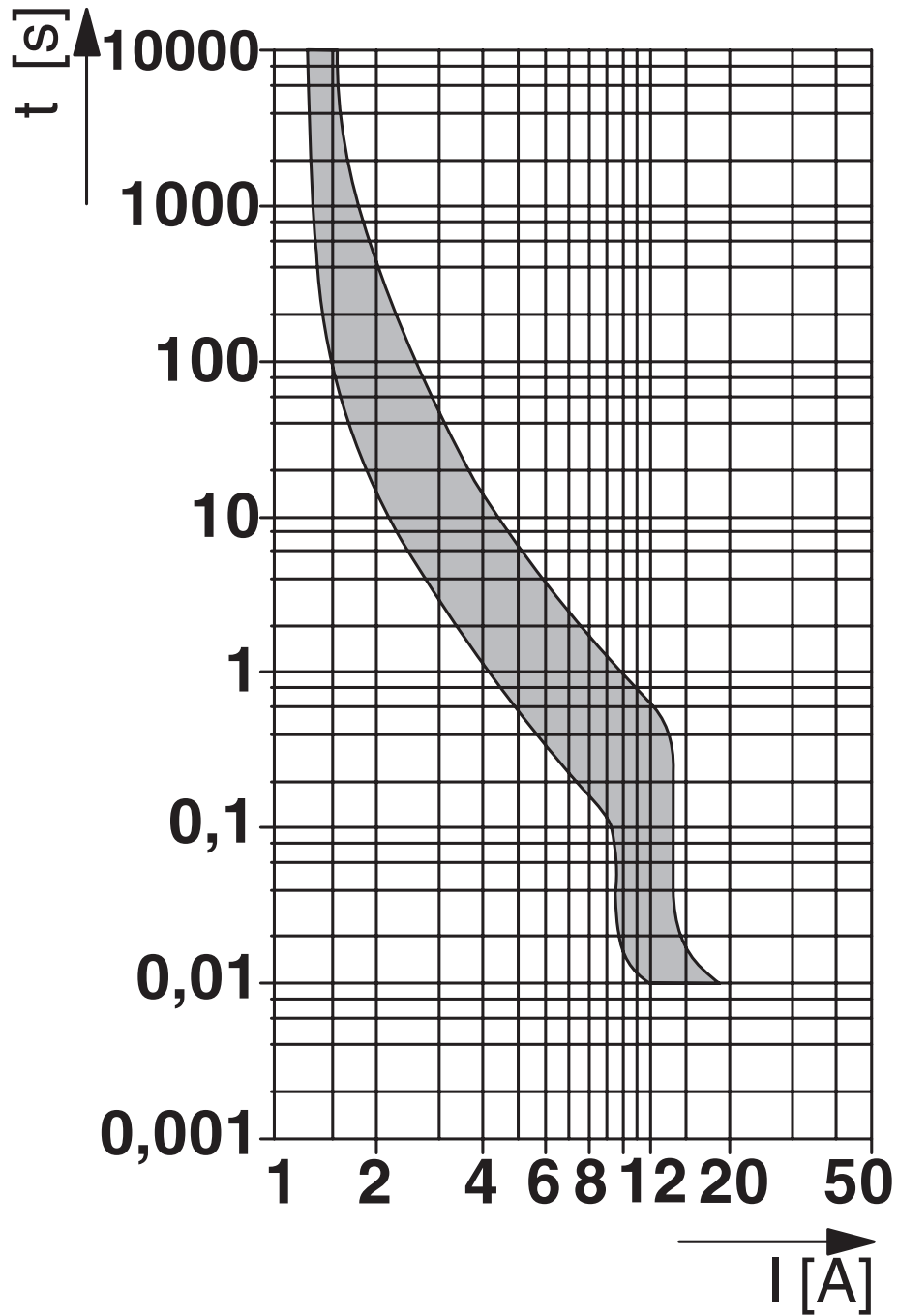
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Drawings



Diagram



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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

cULus Listed

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Classifications

ECLASS

ECLASS-9.0	27141116
ECLASS-10.0.1	27141116
ECLASS-11.0	27141116

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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Accessories

Wiring bridge

Wiring bridge - TMC 8 B3 80 57 C - 2907996

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

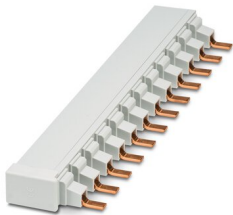


Bus bar for TMC 83... circuit breakers (three phase) 17.8 mm pitch, up to 57 positions. Rated for 80 A (end feed) 600 V AC/DC. UL 508 Listed for connection of UL 489 rated circuit breakers.

Wiring bridge

Wiring bridge - TMC 8 B3 80 48 CA - 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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Terminal adapter

Terminal adapter - TMC 8 B TERM PIN - 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.



Wiring bridge end cover

Wiring bridge end cover - TMC 8 B END CAP - 2907999

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

Protective end covers for TMC 8 bus bars



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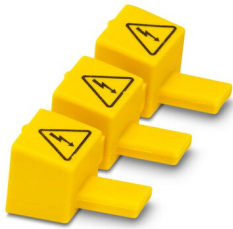
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Protective cover

Protective cover - TMC 8 B BUS CAP - 2908000

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



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

Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - TMC 7/8 AUX - 2908219

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



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - TMC 7/8 ALARM - 2908220

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



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - TMC 7/8 12VDC SHNT - 2908221

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



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - TMC 7/8 24VDC SHNT - 2908222

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



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - TMC 7/8 48VDC SHNT - 2908224

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



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - TMC 7/8 125VDC SHNT - 2908225

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



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - TMC 7/8 120VAC SHNT - 2908226

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



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - TMC 7/8 240VAC SHNT - 2908227

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



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - TMC 7/8 277VAC SHNT - 2908228

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



Thermomagnetic device circuit breaker, number of positions: 1, connection method: Screw, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: Snaps on to side of circuit breaker, Color: gray

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Label

Label - EML (10X4)R - 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

Marker strip

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