

CB TM2 12A M1 P - Thermomagnetic device circuit breaker

2800888

<https://www.phoenixcontact.com/in/products/2800888>

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Thermomagnetic device circuit breaker, 2-pos., tripping characteristic M1 (medium-blow), 2 changeover contacts, plug for base element.

Product description

Thermomagnetic device circuit breaker

Commercial data

Item number	2800888
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLA
Product key	CLA124
Catalog page	Page 392 (C-4-2019)
GTIN	4046356690492
Weight per piece (including packing)	70.1 g
Weight per piece (excluding packing)	70.1 g
Customs tariff number	85362010
Country of origin	ID

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Technical data

Notes

General	When mounted in rows, the nominal device current can be limited to just 80% or must be overdimensioned accordingly.
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Product properties

Product type	Thermomagnetic device circuit breakers
Product family	CB TM
Type	Male
Number of positions	2
No. of channels	1

Insulation characteristics

Degree of pollution	2
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Electrical properties

Fuse type	Automatic device
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General

Rated voltage	80 V DC (IEC 60934)
	80 V DC (UL 1077)
	80 V DC (UL 508 - with plug-in base)
	240 V AC (Ue according to IEC 60934)
	277 V AC (UL 1077)
	277 V AC (UL 508 - with plug-in base)
Rated insulation voltage U_i	277 V AC (UL 1077)
	250 V AC (IEC 60934)
Rated current I_N	12 A (IEC 60934)
	12 A AC (inductive load according to UL 1077)
	12 A DC (low-induction load according to UL 1077)
	12 A DC (low-induction load according to UL 508 - with plug-in base)
Rated surge voltage	2.5 kV (Increased insulation in actuation area)
Insulation resistance R_{iso}	> 100 M Ω (500 V DC)
Auxiliary circuit	277 V AC / 0.5 A (Low-induction)
	277 V AC / 1 A (Low-induction, maximum of 2000 cycles)
	50 V DC / 1 A (Low-induction)
Type of actuation	S type
Tripping method	TM (thermomagnetic)
Tripping level	Trip-free mechanism (positive)
Device resistance	11 m Ω
Required backup fuse	≥ 48 A ($I > I_{cn}$)
Rated short-circuit switching capacity I_{cn}	400 A (240 V AC)
	600 A (80 V DC)

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Short-circuit switching capacity	1000 A AC (277 V AC)
	1000 A DC (50 V DC)
Dielectric strength	3000 V AC (Actuation area)
	1500 V AC (Main to auxiliary circuit)
	1500 V AC (Open main circuit)
	1000 V AC (Open auxiliary circuit)
	1500 V AC (Position to position)
Switching cycles, max.	6000 (240 V AC / 1 x I _n)
	3000 (80 V DC/1 x I _n)
Fuse	M1 (normal blow)
Power dissipation	2.88 W (in nominal operation per channel)
Voltage drop	0.13 V (at 1 x I _n)
Contact switching type	2 changeover contacts

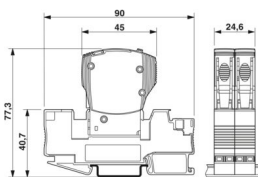
Auxiliary contact

Minimum operating voltage U _{min} DC	10 V
Maximum operating voltage U _{max} DC	240 V
Maximum operating voltage U _{max} AC	240 V
Minimum operating current I _{min}	10 mA
Max. operating current I _{max}	1 A

Connection data

Connection method	pluggable
Connection method	pluggable

Dimensions

Dimensional drawing	
Width	24.6 mm
Height	45 mm
Depth	52 mm

Material specifications

Color	gray (RAL 7042)
	black (RAL 9005)
Flammability rating according to UL 94	V-0
Insulating material group	II

Mechanical properties

Mechanical data

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Open side panel	No
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP30 (Actuation area)
Ambient temperature (operation)	-30 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Humidity test	240 h, 95 % RH, 40 °C
Shock (operation)	30g (IEC 60068-2-27, Test Ea)
Vibration (operation)	8g (IEC 60068-2-6, Test Fc)

Approvals

UL approval

Identification	UL Listed UL 508
	UL/C-UL Recognized UL 1077

CSA

Identification	CSA CAN/CSA-C22.2 No. 235-04
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Shipbuilding approval

Identification	DNV GL
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Standards and regulations

Standards/specifications	EN 60934
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Mounting

Mounting type	on base element
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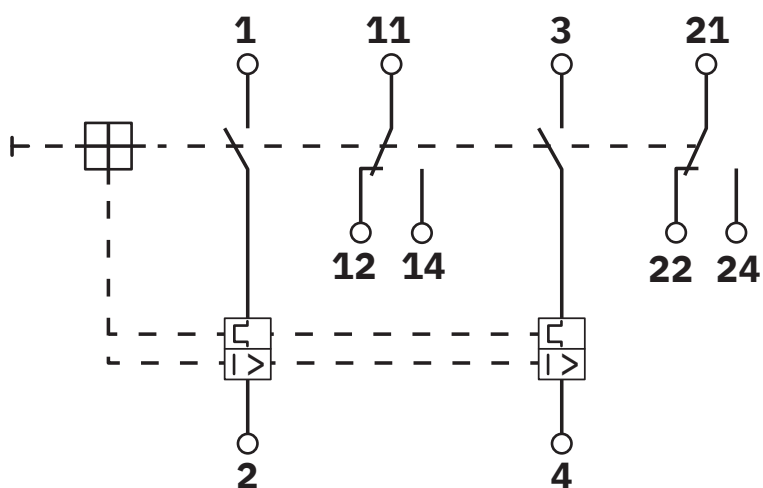


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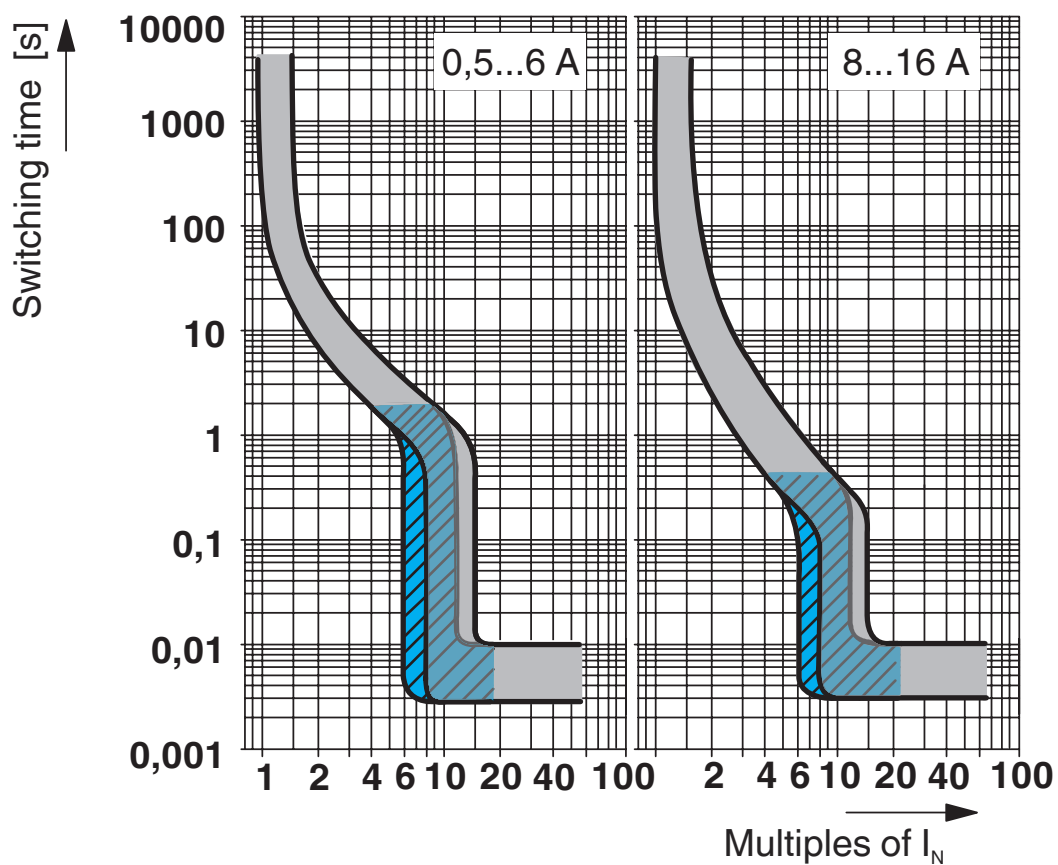
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Drawings

Circuit diagram



Diagram



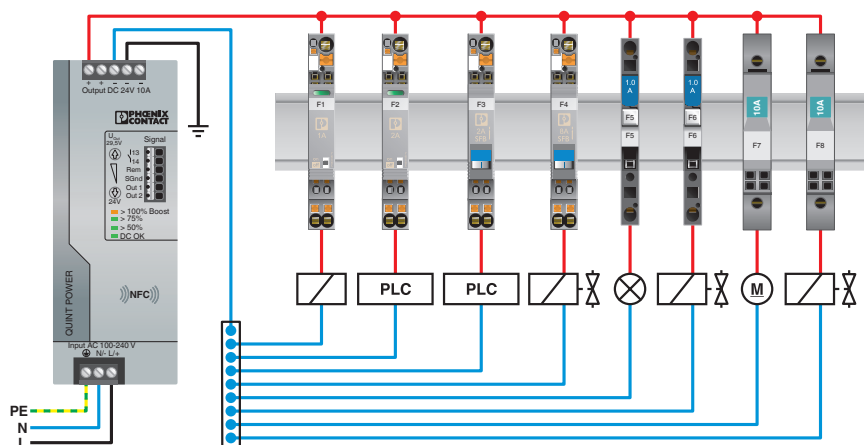
Trigger characteristic
Gray: DC range, blue: AC range

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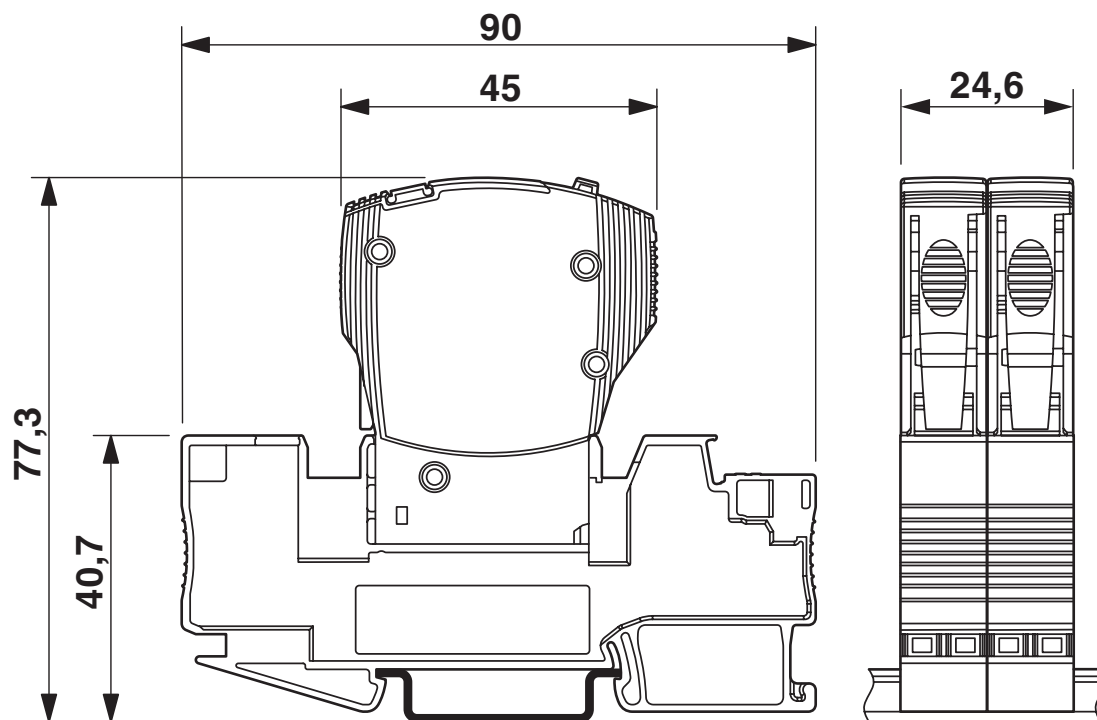
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Application drawing



The figure shows the single-position versions

Dimensional drawing



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

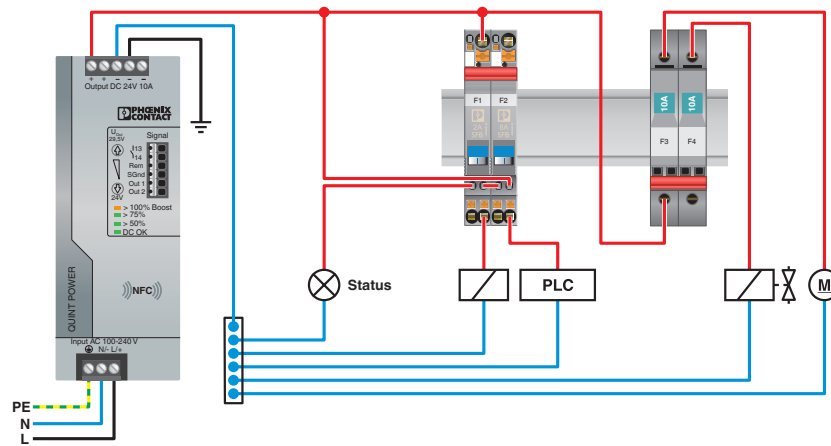
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Application drawing



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Approvals

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cUL Recognized
Approval ID: FILE E 140459



UL Recognized
Approval ID: FILE E 140459



EAC
Approval ID: RU C-DE.*09.B.00169



DNV GL
Approval ID: TAE00003C7



VDE Zeichengenehmigung
Approval ID: 40034683



CCC
Approval ID: 2025010307749779



CSA
Approval ID: 2786957



KC
Approval ID: SW05012-15005

UAE-RoHS

Approval ID: 22-09-50937

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27140401
ECLASS-12.0	27140401
ECLASS-13.0	27140401

ETIM

ETIM 9.0	EC003538
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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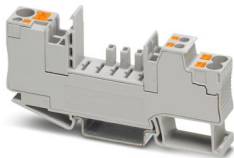
Mandatory accessories

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

2800929

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

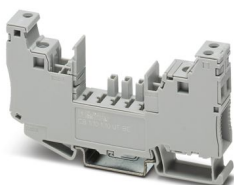


CB 1/10-1/10 UT-BE - Base element

2801305

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Base element with screw connection technology for CB... device circuit breakers



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CB S-BE - Base element

2905067

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Solder base element for PCB mounting for accommodating CB TM... or CB E... device circuit breakers

Accessories

ZBF 12:UNBEDRUCKT - Zack Marker strip, flat

0809735

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Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 12 mm, Number of individual labels: 5, text field height: 12.15 mm, text field width: 5.15 mm

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ZBF 12 CUS - Zack Marker strip, flat

0825018

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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, Number of individual labels: 5, text field height: 12.15 mm, text field width: 5.15 mm

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