

CB TM2 10A M1 P - Thermomagnetic device circuit breaker

2800887

<https://www.phoenixcontact.com/pc/products/2800887>

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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	2800887
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CLA124
Catalog page	Page 392 (C-4-2019)
GTIN	4046356690485
Weight per piece (including packing)	71.4 g
Weight per piece (excluding packing)	68.2 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 oversized accordingly.
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Product properties

Type	Male
Product type	Thermomagnetic device circuit breakers
Product family	CB TM
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 (U _e 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	10 A (IEC 60934)
	10 A AC (inductive load according to UL 1077)
	10 A DC (low-induction load according to UL 1077)
	10 A AC (inductive load according to UL 508 - with plug-in base)
	10 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 MΩ (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	13 mΩ
Required backup fuse	≥ 40 A (I > I _{cn})
Rated short-circuit switching capacity I _{cn}	400 A (240 V AC)

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	600 A (80 V DC)
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 W (in nominal operation per channel)
Voltage drop	0.13 V (at 1 x I _n)

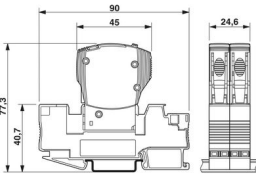
Auxiliary contact

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
Connection method	pluggable

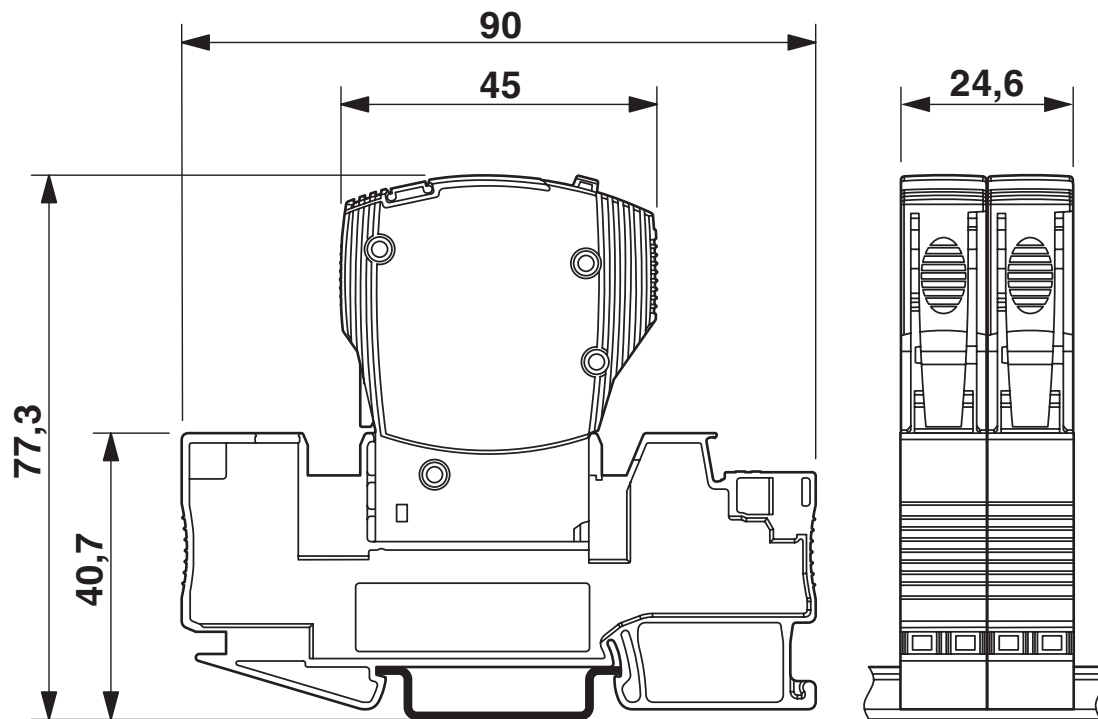
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Drawings

Dimensional drawing



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

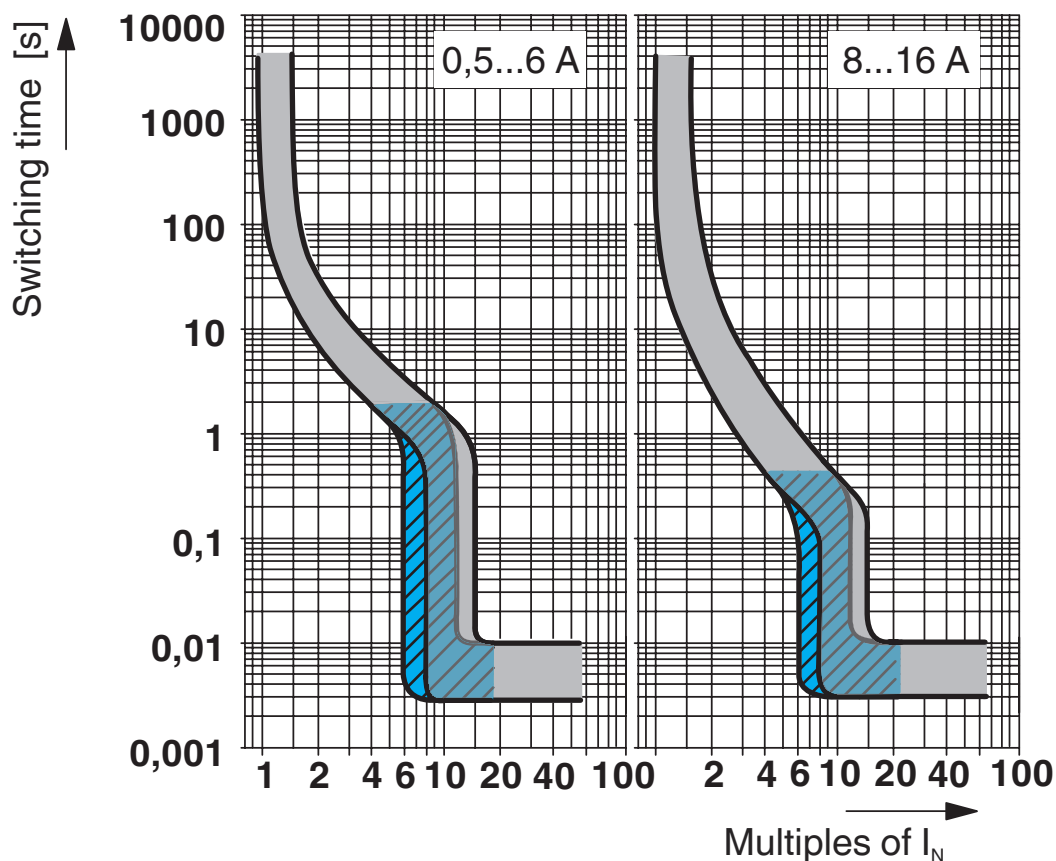
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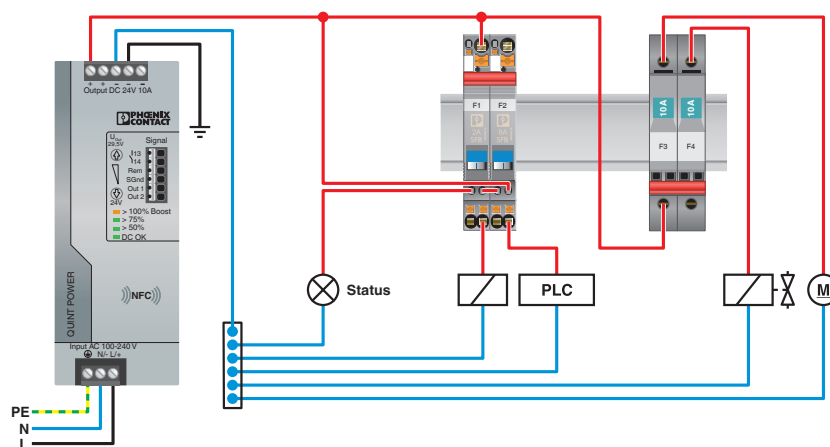
Diagram



Trigger characteristic

Gray: DC range, blue: AC range

Application drawing

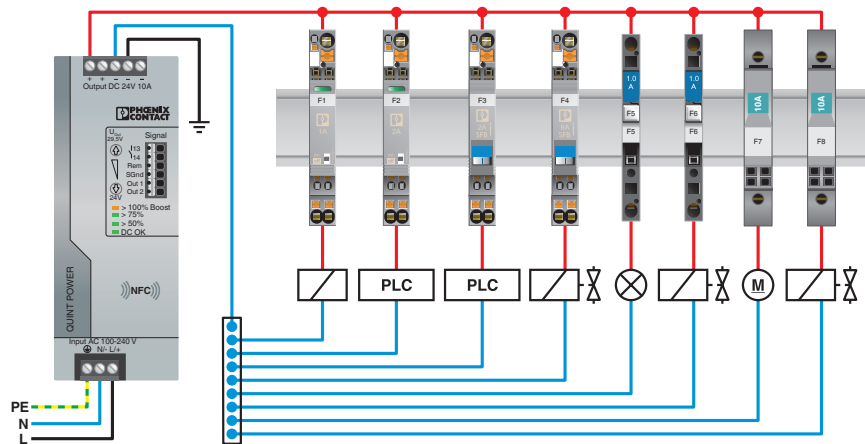


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Application drawing



The figure shows the single-position versions

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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: EAC-Zulassung



DNV GL
Approval ID: TAE00003C7



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



VDE Zeichengenehmigung
Approval ID: 40034683



CCC
Approval ID: 2019010307158887



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

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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