

#### 2800850

https://www.phoenixcontact.com/us/products/2800850

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Thermomagnetic device circuit breaker, 1-pos., tripping characteristic M1 (medium-blow), 1 changeover contact, plug for base element.

## Your advantages

- · Individually adjustable with protective plugs
- · Switch higher starting currents with the aid of the M1 characteristic curve
- · Protective plug with fixed nominal current value as protection against unintentional changes
- · Increased safety with electrical isolation in the event of errors

### Commercial data

Item number	2800850
Packing unit	1 pc
Sales key	CL04
Product key	CLA124
Catalog page	Page 392 (C-4-2019)
GTIN	4046356690010
Weight per piece (including packing)	45.2 g
Weight per piece (excluding packing)	45.2 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 overdimensioned accordingly.
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### Product properties

uit breakers

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#### Degree of pollution

### Electrical properties

Fuse type	Automatic device
eneral	
Rated voltage	50 V DC (IEC 60934)
	50 V DC (UL 1077)
	50 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 <sub>i</sub>	277 V AC (UL 1077)
	250 V AC (IEC 60934)
Rated current I <sub>N</sub>	4 A (IEC 60934)
	4 A AC (inductive load according to UL 1077)
	4 A DC (low-induction load according to UL 1077)
	4 A AC (inductive load according to UL 508 - with plug-in base)
	4 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 <sub>iso</sub>	> 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	90 mΩ
Required backup fuse	16 A (I > I <sub>cn</sub> )
Rated short-circuit switching capacity I <sub>cn</sub>	300 A (240 V AC)



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Ne ant airea it an itakina ana arita	4000 A AC (077) ( AC)
Short-circuit switching capacity	1000 A AC (277 V AC)
	1000 A DC (50 V DC)
electric 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)
Switching cycles, max.	6000 (at 1 x I <sub>n</sub> )
Fuse	M1 (normal blow)
Power dissipation	1.44 W (in nominal operation per channel)
Voltage drop	0.34 V (at 1 x I <sub>n</sub> )
xiliary contact	
Minimum operating voltage U <sub>min</sub> DC	10 V
Maximum operating voltage U <sub>max</sub> DC	240 V
Maximum operating voltage U <sub>max.</sub> AC	240 V
Minimum operating current I <sub>min</sub>	10 mA
Max. operating current I <sub>max</sub>	1 A

Connection method	pluggable
Connection method	pluggable

#### Dimensions

Dimensional drawing	
Width	12.3 mm
Height	45 mm
Depth	52 mm
Complete module width	12.3 mm
Complete module height	90 mm
Complete module depth	77.3 mm

#### Material specifications

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

### Mechanical properties



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Mechanical data	
Open side panel	No
vironmental 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 (According to IEC 60068-2-27, Test Ea)
Vibration (operation)	8g (in accordance with IEC 60068-2-6, Test Fc)
provals	
	UL Listed UL 508
L approval	UL Listed UL 508 UL/C-UL Recognized UL 1077
JL approval Identification	
JL approval Identification	
JL approval Identification CSA Identification	UL/C-UL Recognized UL 1077
JL approval Identification CSA Identification	UL/C-UL Recognized UL 1077
CSA Identification Shipbuilding approval	UL/C-UL Recognized UL 1077 CSA CAN/CSA-C22.2 No. 235-04
JL approval Identification CSA Identification Shipbuilding approval Identification	UL/C-UL Recognized UL 1077 CSA CAN/CSA-C22.2 No. 235-04

#### Mounting

Mounting type

on base element



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# Classifications

### ECLASS

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

### ETIM

	ETIM 9.0	EC003538
UN	NSPSC	
	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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com