

2800841

https://www.phoenixcontact.com/us/products/2800841

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 changeover contact, plug for base element.

#### Your advantages

- · Individually adjustable with protective plugs
- · Fuse protection for above-average conductor lengths with the aid of the SFB characteristic curve
- · Protective plug with fixed nominal current value as protection against unintentional changes
- · Increased safety with electrical isolation in the event of errors
- · Modular expansion possible thanks to the uniform, plug-in housing concept
- · Compact design with precise nominal current levels
- · Sophisticated remote signaling concept enables monitoring from any location
- Maximum overcurrent protection across long cable paths via SFB trigger characteristic
- · Supply/remote signaling can be bridged with CLIPLINE complete accessories

#### Commercial data

Item number	2800841
Packing unit	1 pc
Sales key	CL04
Product key	CLA124
Catalog page	Page 311 (C-4-2019)
GTIN	4046356689922
Weight per piece (including packing)	43.99 g
Weight per piece (excluding packing)	26.47 g
Customs tariff number	85362010
Country of origin	ID



When mounted in rows, the nominal device current can be

2800841

https://www.phoenixcontact.com/us/products/2800841

#### Technical data

General

Notes
-------

GS.I.G.	limited to just 80% or must be overdimensioned accordingly.
Product properties	
Туре	Male
Product type	Thermomagnetic device circuit breakers
Product family	CB TM
Number of positions	1
No. of channels	1
Insulation characteristics	
Degree of pollution	2

### 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)
Rated insulation voltage U <sub>i</sub>	277 V AC (UL 1077)
	250 V AC (IEC 60934)
Rated current I <sub>N</sub>	6 A (IEC 60934)
	6 A DC (low-induction load according to UL 1077)
	6 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	50 mΩ
Required backup fuse	24 A (I > I <sub>cn</sub> )
Rated short-circuit switching capacity $\rm I_{cn}$	600 A (50 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)



2800841

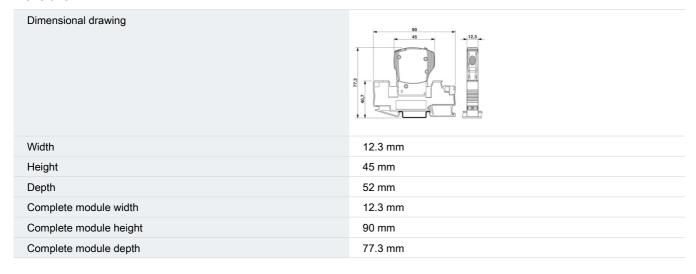
https://www.phoenixcontact.com/us/products/2800841

	1000 V AC (Open auxiliary circuit)
Switching cycles, max.	6000 (at 1 x I <sub>n</sub> )
Fuse	SFB
Power dissipation	1.8 W (in nominal operation per channel)
Voltage drop	0.29 V (at 1 x I <sub>n</sub> )
Auxiliary contact Minimum operating voltage U <sub>min</sub> DC	10 V
Maximum operating voltage $\mathbf{U}_{\text{max}}$ DC	240 V
Maximum operating voltage U <sub>max.</sub> AC	240 V
Maximum operating voltage U <sub>max.</sub> AC  Minimum operating current I <sub>min</sub>	240 V 10 mA

#### Connection data

Connection method	pluggable
Connection method	pluggable

#### **Dimensions**



#### 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

modiumour data		
	Open side panel	No

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP30 (Actuation area)
----------------------	-----------------------



2800841

https://www.phoenixcontact.com/us/products/2800841

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	III Li-t III 500
identification	UL Listed UL 508
	UL/C-UL Recognized UL 1077

Identification

Shipbuilding approval Identification

Sta	andards and regulations	
	Standards/specifications	EN 60934

DNV GL

CSA CAN/CSA-C22.2 No. 235-04

#### Mounting

CSA

Mounting type	on base element
---------------	-----------------



2800841

https://www.phoenixcontact.com/us/products/2800841

### Classifications

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27140401
ECLASS-12.0	27140401
ECLASS-13.0	27140401
ETIM	
ETIM 9.0	EC003538
UNSPSC	

39121400



2800841

https://www.phoenixcontact.com/us/products/2800841

### Environmental product compliance

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

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

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