

2800844

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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	2800844
Packing unit	1 pc
Sales key	CL04
Product key	CLA124
Catalog page	Page 391 (C-4-2019)
GTIN	4046356689953
Weight per piece (including packing)	43.4 g
Weight per piece (excluding packing)	40.3 g
Customs tariff number	85362010
Country of origin	ID



When mounted in rows, the nominal device current can be

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### Technical data

General

Notes
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		limited to just 80% or must be overdimensioned accordingly.
Prod	duct properties	
	Туре	Male
	Product type	Thermomagnetic device circuit breakers
	Product family	CB TM
	Number of positions	1
	No. of channels	1
Ins	sulation characteristics	
	Degree of pollution	2
Elec	etrical properties	
	Fuse type	Automatic device

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>	12 A (IEC 60934)
	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 <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	11 mΩ
Required backup fuse	48 A (I > I <sub>cn</sub> )
Rated short-circuit switching capacity $\mathbf{I}_{\mathrm{cn}}$	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)



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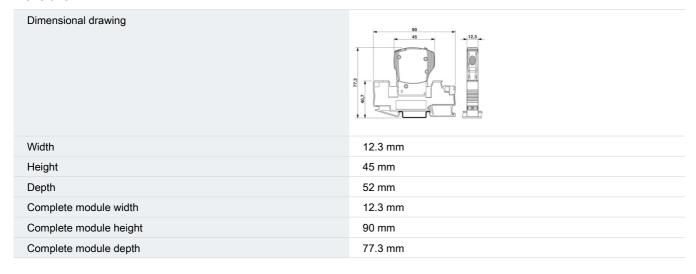
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	1000 V AC (Open auxiliary circuit)
Switching cycles, max.	6000 (at 1 x I <sub>n</sub> )
Fuse	SFB
Power dissipation	2.88 W (in nominal operation per channel)
Voltage drop	0.13 V (at 1 x I <sub>n</sub> )
Auxiliary contact	40.1/
Minimum operating voltage 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 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

Wiedrich data	
Open side panel	No

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP30 (Actuation area)
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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)
pprovals  UL approval	
Identification	UL Listed UL 508
	UL/C-UL Recognized UL 1077

### Identification

St	andards and regulations	
	Standards/specifications	EN 60934

DNV GL

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

#### Mounting

CSA

Identification

Shipbuilding approval

Mounting type	on base element	



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### Classifications

UNSPSC 21.0

#### **ECLASS**

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

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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