

2800862

https://www.phoenixcontact.com/us/products/2800862

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Thermomagnetic device circuit breaker, 1-pos., tripping characteristic F1 (fast-blow), 1 changeover contact, plug for base element.

### Your advantages

- · Individually adjustable with protective plugs
- Fast tripping in the event of an error with the aid of the F1 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	2800862
Packing unit	1 pc
Sales key	CL04
Product key	CLA124
Catalog page	Page 393 (C-4-2019)
GTIN	4046356690225
Weight per piece (including packing)	44.9 g
Weight per piece (excluding packing)	41.7 g
Customs tariff number	85362010
Country of origin	ID



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

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### Technical data

General

#### Notes

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

### Electrical properties

Fuse type	Automatic device
General	
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>	5 A (IEC 60934)
	inductive load according to UL 1077
	5 A DC (low-induction load according to UL 1077)
	5 A DC (inductive load according to UL 508 - with plug-in base)
	5 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	60 mΩ
Switch-on delay	typ. 2 ms
Required backup fuse	20 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)



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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)
Switching cycles, max.	6000 (at 1 x I <sub>n</sub> )
Fuse	F1 (fast blow)
Power dissipation	1.5 W (in nominal operation per channel)
Voltage drop	0.31 V (at 1 x I <sub>n</sub> )
uxiliary contact	
Minimum operating voltage $\mathbf{U}_{\min}$ DC	10 V
	040.14
Maximum operating voltage U <sub>max</sub> DC	240 V
Maximum operating voltage U <sub>max.</sub> AC	240 V 240 V
max	

### Connection data

Connection method	pluggable
Connection method	pluggable

#### **Dimensions**

Dimensional drawing	90 45 12.3 FLL Z'0p
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

### Mechanical data

Open side panel	No
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### Environmental and real-life conditions

Ambient conditions	Ambient	conditions
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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)	15g (IEC 60068-2-27, Test Ea)
Vibration (operation)	5g (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
Shipbuilding approval	
Identification	DNV GL

### Standards and regulations

Standards/specifications	EN 60934
Otaliaa as/specifications	LI 1 0000

### Mounting

Mounting type	on base element
mounting type	on base cioment



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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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