

2800911

https://www.phoenixcontact.com/us/products/2800911

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Electronic circuit breaker, 1-pos., active current limitation, status output and reset input, plug for base element.

## Your advantages

- · Individually adjustable with protective plugs
- · Protective plug with fixed nominal current value as protection against unintentional changes
- · Active current limitation to improve the capacity of the upstream power supply
- · Remote reconnection with the reset function
- Increased system transparency with integrated remote message function

#### Commercial data

Item number	2800911
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA134
Catalog page	Page 383 (C-4-2019)
GTIN	4046356690980
Weight per piece (including packing)	34.8 g
Weight per piece (excluding packing)	34.8 g
Customs tariff number	85362010
Country of origin	DE



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## Technical data

#### Notes

General	When mounted in rows without convection cooling, the nominal device current should only be led to a maximum of 80% due to the thermal effect during continuous operation (100% operating factor).  Special precautionary measures must be taken in systems or machines, to prevent components from restarting (e.g., use of a safety PLC).  Parallel connection of multiple circuit breakers is not permitted.
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### Product properties

Туре	Male
Product type	Device circuit breakers
Product family	CB E
Number of positions	1
No. of channels	1
Insulation characteristics	
Degree of pollution	2

### Electrical properties

#### General

Operating voltage	24 V DC
	18 V DC 30 V DC
Nominal current I <sub>N</sub>	4 A
Rated surge voltage	0.5 kV
Tripping method	E (electronic)
Required backup fuse	not required, integrated failsafe element
Dielectric strength	max. 30 V DC (Load circuit)
Active current limitation	typ. 1.25 x I <sub>N</sub>
Fuse	electronic
Closed circuit current I <sub>0</sub>	typ. 8 mA (When switched on)
	typ. 11 mA (With status output)
Power dissipation	0.66 W (Nominal operation)
Temperature derating	4 A (at 50 °C)
MTBF (IEC 61709, SN 29500)	8320000 h (at 25 °C with 80 % load)
	7410000 h (at 40 °C with 80 % load)
Voltage drop	100 mV (at I <sub>N</sub> )
Fail-safe element	6 A DC

#### Load circuit

Shutdown time	200 ms (see time/current characteristic curve)
Undervoltage switch-off	< 14 V (typ. OFF)
	> 17 V (typ. ON)



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Max. capacitive load	20000 μF
Auxiliary contact	
Contact connection type	Positive-switching signal output
Reset	
Input voltage range	7 V DC 30 V DC (Reset with falling edge)
Current consumption	typ. 2.6 mA (at 24 V DC)
Pulse length	min. 20 ms
Voltage	< 3 V DC (Low state)
	> 8 V DC (High state)
Status output	
Output voltage	24 V DC
Output current	max. 0.2 A (Short-circuit-proof)
onnection data	
Connection method	pluggable
imensions	
Dimensional drawing	90 12.3
Width	12.3 mm
Height	45 mm
Depth	52 mm
Complete module width	12.3 mm
Complete module height	90 mm

## Material specifications

Complete module depth

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

77.3 mm

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP30 (Actuation area)
Ambient temperature (operation)	-25 °C 50 °C (non-condensing)
Ambient temperature (storage/transport)	-40 °C 70 °C
Humidity test	96 h, 95 % RH, 40 °C
Vibration (operation)	3g (according to IEC 60068-2-6, Test Fc)



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## Approvals

UL	approva

Fr	
Identification	UL Listed UL 508
	UL Recognized UL 2367
Shipbuilding approval	
Identification	DNV GL

## Standards and regulations

Standard designation	EMV
Standards/specifications	EN 61000-6-3
Note	Interference emission
Standard designation	EMV
Standards/specifications	EN 61000-6-2
Note	Noise immunity

## 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	
UNSPSC			
	UNSPSC 21.0	39121400	



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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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