

2800904

https://www.phoenixcontact.com/us/products/2800904

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Electronic circuit breaker, 1-pos., active current limitation, 1 N/O contact, 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
- · Increased system transparency with integrated remote message function

#### Commercial data

Item number	2800904
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA134
Catalog page	Page 382 (C-4-2019)
GTIN	4046356690744
Weight per piece (including packing)	35.2 g
Weight per piece (excluding packing)	35.2 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	
Pollution degree	2

#### Electrical properties

Shutdown time

Undervoltage switch-off

#### 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. 17 mA (With alarm output)
Power dissipation	0.81 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

200 ms (see time/current characteristic curve)

< 14 V (typ. OFF) > 17 V (typ. ON)



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Max. capacitive load	20000 μF
Auxiliary contact	
Contact connection type	floating signal contact
Minimum operating voltage U <sub>min</sub> DC	10 V DC
Maximum operating voltage U <sub>max</sub> DC	30 V DC
Minimum operating current I <sub>min</sub>	10 mA
Max. operating current I <sub>max</sub>	0.5 A

#### Connection data

#### **Dimensions**

Dimensional drawing	90 45 12.3 F.L. Zop
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

#### 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)

#### Approvals

#### UL approval

Identification	UL Listed UL 508
	UL Recognized UL 2367



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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

UNSPSC 21.0

#### **ECLASS**

27140401
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EC003538

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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