#### 2800902

https://www.phoenixcontact.com/au/products/2800902

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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	2800902
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLA134
Product key	CLA134
Catalog page	Page 382 (C-4-2019)
GTIN	4046356690720
Weight per piece (including packing)	35.2 g
Weight per piece (excluding packing)	21.19 g
Customs tariff number	85362010
Country of origin	DE

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### Technical data

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.

### **Product properties**

Product type	Device circuit breakers
Product family	CBE
Туре	Male
Number of positions	1
No. of channels	1
Insulation characteristics	
Pollution degree	2

### Electrical properties

#### General

Operating voltage	24 V DC
	18 V DC 30 V DC
Nominal current I <sub>N</sub>	2 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	0.61 W (Nominal operation)
Temperature derating	2 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	4 A DC
Contact switching type	without electrical isolation
oad circuit	
Shutdown time	400 ms (see time/current characteristic curve)
Undervoltage switch-off	< 14 V (typ. OFF)



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	> 17 V (typ. ON)	
Max. capacitive load	20000 µF	
Switch-on delay	typ. 2 ms	
uxiliary 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

Connection method

pluggable

#### Dimensions

Dimensional drawing	
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

U	pproval	
	lentification	

Identification	UL Listed UL 508



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	UL Recognized UL 2367
Shipbuilding approval	
Identification	DNV GL
andards and regulations	
Standard designation	EMV
	EN 04000 0 0
Standards/specifications	EN 61000-6-3
Standards/specifications Note	Interference emission
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Note	Interference emission

### Mounting

Mounting type on base element



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### Drawings



The figure shows the complete module consisting of a base element and connector





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Trigger characteristic





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### Approvals

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### Classifications

### ECLASS

	ECLASS-13.0	27140401	
ETIM			
	ETIM 9.0	EC003538	
UNSPSC			
	UNSPSC 21.0	39121400	

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### Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	c29c8852-5be8-43f4-b91c-bd56e046296b
EF3.0 Climate Change	
CO2e kg	2.684 kg CO2e

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PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au

