

2800902

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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	CL04
Product key	CLA134
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



2800902

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

### 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.
---------	--

### Product properties

Product type	Device circuit breakers	
Product family	CB E	
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

### Load circuit

Shutdown time	400 ms (see time/current characteristic curve)
Undervoltage switch-off	< 14 V (typ. OFF)



2800902

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

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

Connection method	pluggable
-------------------	-----------

### **Dimensions**

Dimensional drawing	90 45 12.3
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



2800902

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

		UL Recognized UL 2367	
S	hipbuilding approval		
	Identification	DNV GL	
Sta	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	
Мо	Mounting		
	Mounting type	on base element	



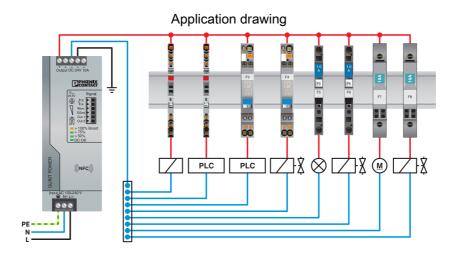
2800902

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

# Drawings

# Dimensional drawing 90 45 12,3

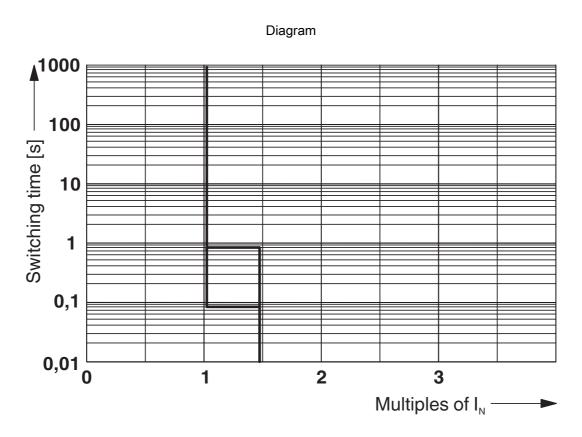
The figure shows the complete module consisting of a base element and connector



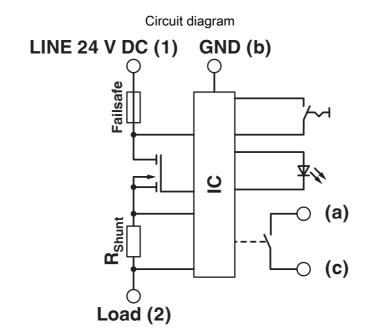


2800902

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



Trigger characteristic





2800902

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

### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2800902



**UL Recognized** 

Approval ID: FILE E 317172



**DNV GL** 

Approval ID: TAE00003KA



**cULus Listed** 

Approval ID: E123528



2800902

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

# Classifications

### **ECLASS**

	ECLASS-13.0	27140401	
	ECLASS-15.0	27140401	
ETIM			
	ETIM 9.0	EC003538	
UNSPSC			
	UNSPSC 21.0	39121400	



2800902

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

## 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

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com