

2800916

https://www.phoenixcontact.com/us/products/2800916

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Electronic circuit breaker, 1-pos., active current limitation, 1 N/C 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	2800916
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA134
GTIN	4046356690652
Weight per piece (including packing)	34.7 g
Weight per piece (excluding packing)	34.5 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

Product type	Device circuit breakers
Product family	CB E
Туре	Male
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 _N	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 _N
Fuse	electronic
Closed circuit current I ₀	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 _N)
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)



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	> 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 _{min} DC	10 V DC
Maximum operating voltage U _{max} DC	30 V DC
Minimum operating current I _{min}	10 mA
Max. operating current I _{max}	0.5 A

Connection data

Connection method	pluggable
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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

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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
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	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



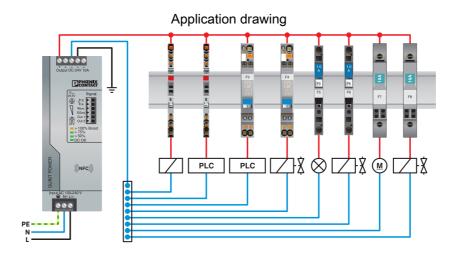
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Drawings

Dimensional drawing 90 45 12,3

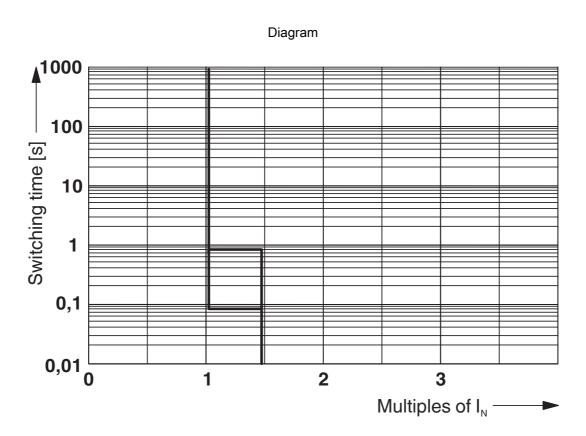
The figure shows the complete module consisting of a base element and connector



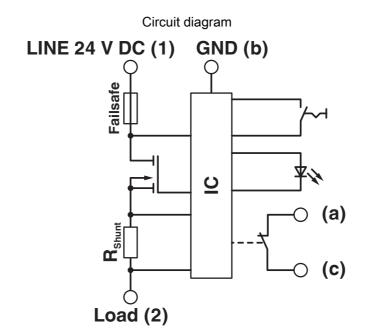


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Trigger characteristic





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Approvals

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UL Recognized

Approval ID: FILE E 317172



DNV GL

Approval ID: TAE00003KA



cULus Listed

Approval ID: E123528



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Classifications

ECLASS

	ECLASS-13.0	27140401	
	ECLASS-15.0	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	
nvironment 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	a3df04c9-42df-440b-9448-032633d4a213
EF3.0 Climate Change	
CO2e kg	2.723 kg CO2e

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