

2800901

https://www.phoenixcontact.com/us/products/2800901

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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	2800901
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA134
Catalog page	Page 382 (C-4-2019)
GTIN	4046356690713
Weight per piece (including packing)	35.22 g
Weight per piece (excluding packing)	35.22 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	
Data management status		
Article revision	03	
Insulation characteristics		
Pollution degree	2	

Electrical properties

General

Operating voltage	24 V DC
	18 V DC 30 V DC
Nominal current I _N	1 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	0.55 W (Nominal operation)
Temperature derating	1 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	140 mV (at I _N)
Fail-safe element	2 A DC

Load circuit



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Shutdown time	800 ms (see time/current characteristic curve)
Undervoltage switch-off	< 14 V (typ. OFF)
	> 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 _{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 FL
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



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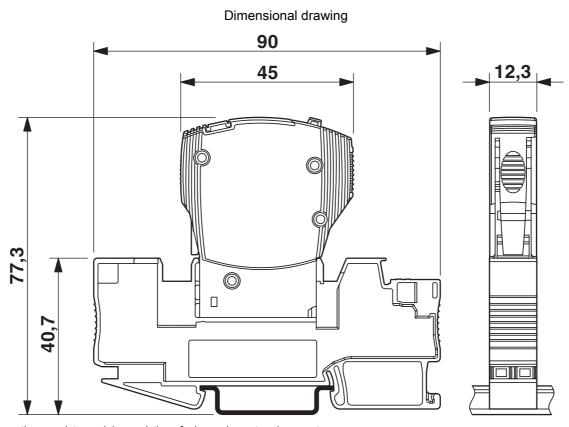
UL	L approval	
	Identification	UL Listed UL 508
		UL Recognized UL 2367
Sh	nipbuilding approval	
	Identification	DNV GL
Standards and regulations		
	Standard designation	EMV
	Standards/specifications	EN 61000-6-3
	Note	Interference emission
	Standard designation	EMV
	Standards/specifications	EN 61000-6-2
	Note	Noise immunity
Mou	unting	
	Mounting type	on base element



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Drawings

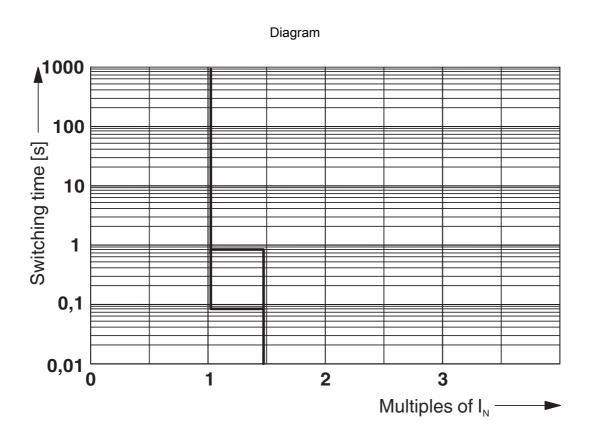


The figure shows the complete module consisting of a base element and connector

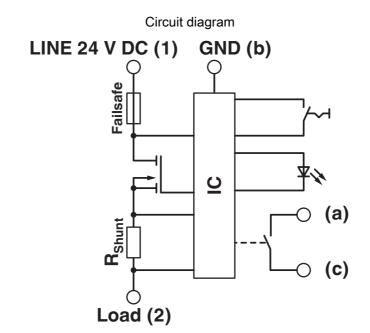


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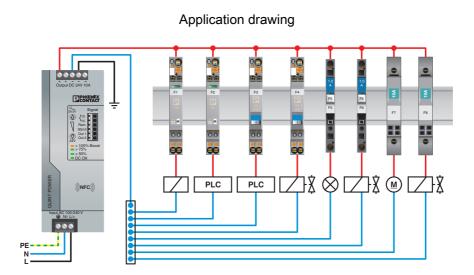
Trigger characteristic





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Approvals

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UL Recognized

Approval ID: FILE E 317172



DNV GL

Approval ID: TAE00003KA



UL Listed

Approval ID: E140324



cUL Listed

Approval ID: E140324

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Classifications

ECLASS

	ECLASS-11.0	27140401		
	ECLASS-12.0	27140401		
	ECLASS-13.0	27140401		
ET	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	c3f5c2f4-3a99-490b-8a57-8c4d5d41500e

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