

2800926

https://www.phoenixcontact.com/us/products/2800926

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Electronic circuit breaker, 1-pos., active current limitation, status output and control input, plug for base element.

Your advantages

- · Individually adjustable with protective plugs
- · Individually adjustable with protective plugs
- Active current limitation to improve the capacity of the upstream power supply
- · Remote switch-on and switch-off thanks to the controller function
- Increased system transparency with integrated remote message function

Commercial data

Item number	2800926
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA134
Catalog page	Page 383 (C-4-2019)
GTIN	4046356690829
Weight per piece (including packing)	34.6 g
Weight per piece (excluding packing)	34.6 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		
Degree of pollution	2	

Electrical properties

No. of channels	1
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General

Operating voltage	24 V DC
	18 V DC 30 V DC
Nominal current I _N	6 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. 11 mA (With status output)
Power dissipation	1.04 W (Nominal operation)
Temperature derating	5 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	130 mV (at I _N)
Fail-safe element	10 A DC

Load circuit

Shutdown time	130 ms (see time/current characteristic curve)
Undervoltage switch-off	< 14 V (typ. OFF)



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UL approval Identification

Shipbuilding approval

Identification

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Max. capacitive load	> 17 V (typ. ON) 20000 µF
uxiliary contact	Docitive quitables simply and the
Contact connection type	Positive-switching signal output
tatus output	
Output voltage	24 V DC
Output current	max. 0.2 A (Short-circuit-proof)
nnection data	
Connection method	pluggable
nensions Dimensional drawing	
	90 45 12.3 12.3 12.3 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
terial specifications	
Flammability rating according to UL 94	V-0
vironmental and real-life 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)

UL Listed UL 508

DNV GL

UL Recognized UL 2367



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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

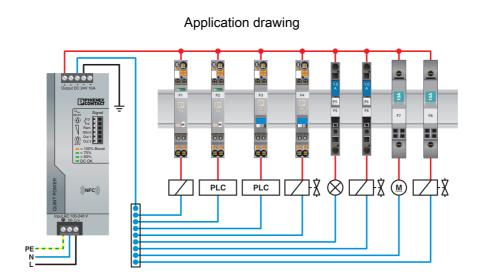
Mounting type	on base element



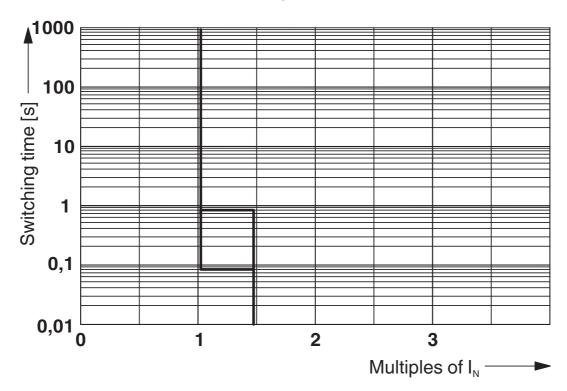
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Drawings





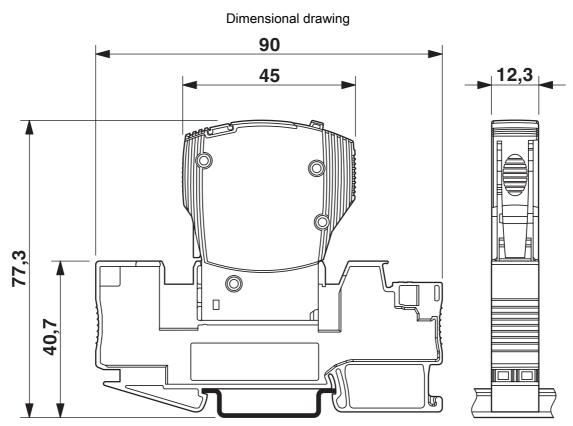


Trigger characteristic



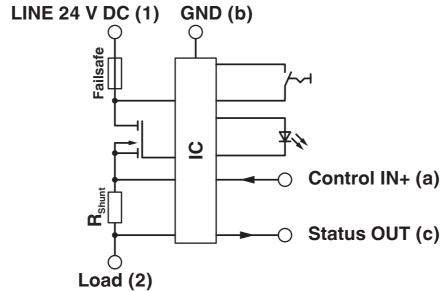
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The figure shows the complete module consisting of a base element and connector

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2800926



UL Recognized

Approval ID: FILE E 317172



DNV GL

Approval ID: TAE00003KA



UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324

cULus Listed



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Classifications

ECLASS

	ECLASS-11.0	27140401		
	ECLASS-12.0	27140401		
	ECLASS-13.0	27140401		
ETIM				
	ETIM 8.0	EC003538		
UNSPSC				
	UNSPSC 21.0	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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Mandatory accessories

CB 1/6-2/4 PT-BE - Base element

2800929

https://www.phoenixcontact.com/us/products/2800929

Base element with push-in connection technology for CB ... device circuit breakers



CB 1/10-1/10 UT-BE - Base element

2801305

https://www.phoenixcontact.com/us/products/2801305

Base element with screw connection technology for CB... device circuit breakers





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CB S-BE - Base element

2905067

https://www.phoenixcontact.com/us/products/2905067



Solder base element for PCB mounting for accommodating CB TM... or CB E... device circuit breakers

Accessories

ZBF 12:UNBEDRUCKT - Zack Marker strip, flat

0809735

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Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5



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ZBF 12 CUS - Zack Marker strip, flat

0825018

https://www.phoenixcontact.com/us/products/0825018



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5

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