

2800919

https://www.phoenixcontact.com/us/products/2800919

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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	2800919
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA134
Catalog page	Page 383 (C-4-2019)
GTIN	4046356690683
Weight per piece (including packing)	35.2 g
Weight per piece (excluding packing)	30.6 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

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. 17 mA (With alarm output)
Power dissipation	1.19 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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	> 17 V (typ. ON)
Max. capacitive load	20000 μF
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
onnection data	
Connection method	pluggable
mensions	
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
aterial specifications	
Flammability rating according to UL 94	V-0
vironmental 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

Identification	UL Listed UL 508
	UL Recognized UL 2367
Shipbuilding approval	



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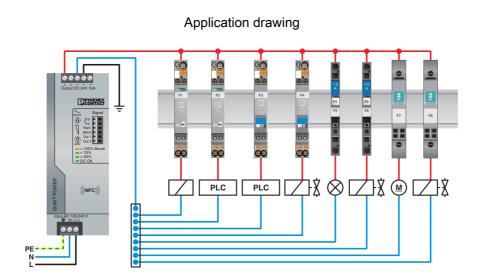
Identification	DNV GL	
Standards and regulations		
Standard designation	EMV	
Standards/specifications	EN 61000-6-3	
Note	Interference emission	
Standard designation	EMV	
Standards/specifications	EN 61000-6-2	
Note	Noise immunity	
Mounting		
Mounting type	on base element	



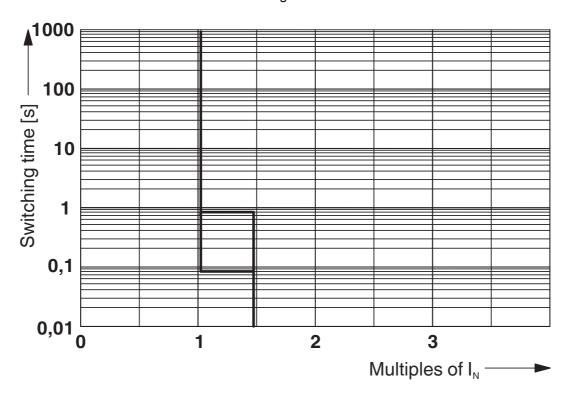
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Drawings







Trigger characteristic



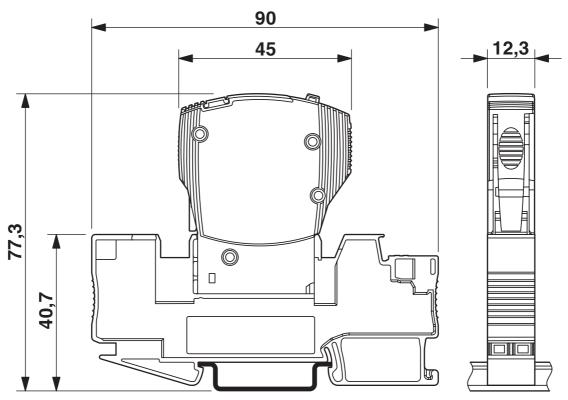
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LINE 24 V DC (1) GND (b)

Dimensional drawing

Load (2)



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



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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: 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
ET	¬IM	
	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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