

CB E1 24DC/4A S-C P - Electronic circuit breaker



2800925

<https://www.phoenixcontact.com/au/products/2800925>

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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
- Protective plug with fixed nominal current value as protection against unintentional changes
- 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	2800925
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLA134
Product key	CLA134
Catalog page	Page 383 (C-4-2019)
GTIN	4046356690812
Weight per piece (including packing)	35.5 g
Weight per piece (excluding packing)	35.5 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

Type	Male
Product type	Device circuit breakers
Product family	CB E
Number of positions	1
No. of channels	1

Insulation characteristics

Degree of pollution	2
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Electrical properties

General

Operating voltage	24 V DC
	18 V DC ... 30 V DC
Nominal current I_N	4 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. $1.25 \times I_N$
Fuse	electronic
Closed circuit current I_0	typ. 8 mA (When switched on)
	typ. 11 mA (With status output)
Power dissipation	0.66 W (Nominal operation)
Temperature derating	4 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	6 A DC

Load circuit

Shutdown time	200 ms (see time/current characteristic curve)
Undervoltage switch-off	< 14 V (typ. OFF)
	> 17 V (typ. ON)

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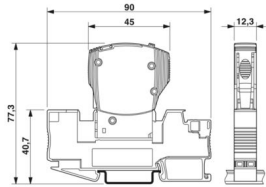
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Max. capacitive load	20000 µF
Auxiliary contact	
Contact connection type	Positive-switching signal output
Status output	
Output voltage	24 V DC
Output current	max. 0.2 A (Short-circuit-proof)

Connection data

Connection method	pluggable
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Dimensions

Dimensional drawing	
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	
Identification	UL Listed UL 508
	UL Recognized UL 2367

Shipbuilding approval	
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Identification	DNV GL
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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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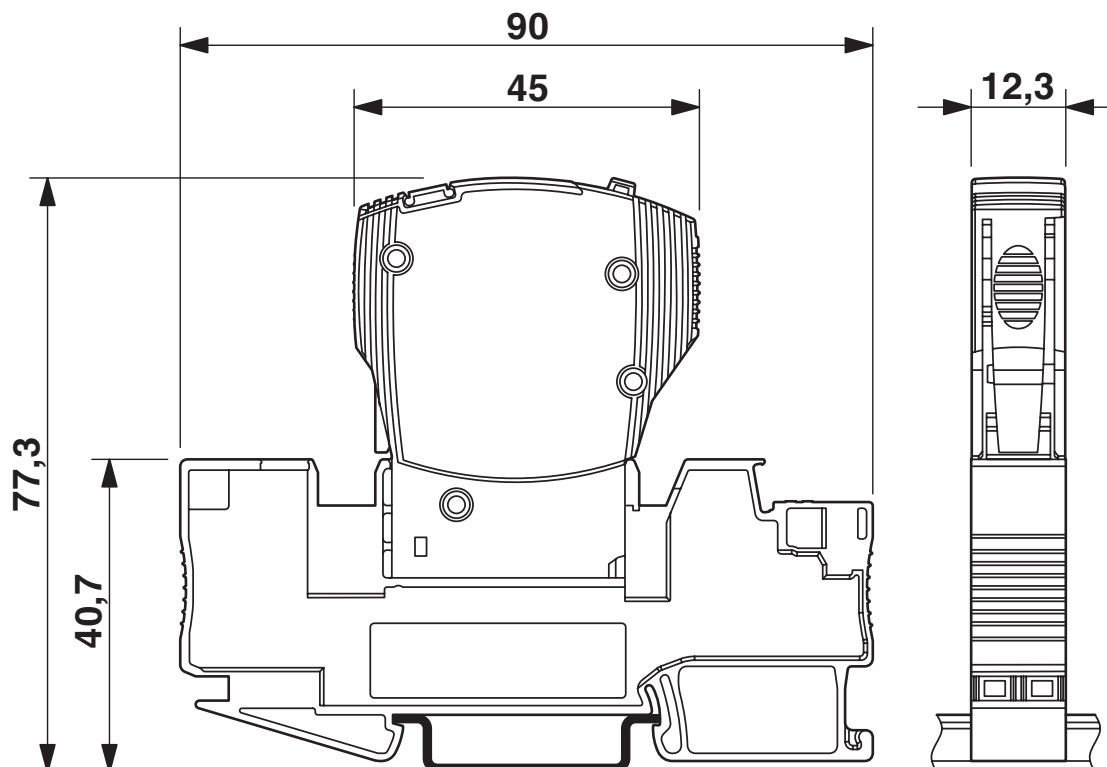
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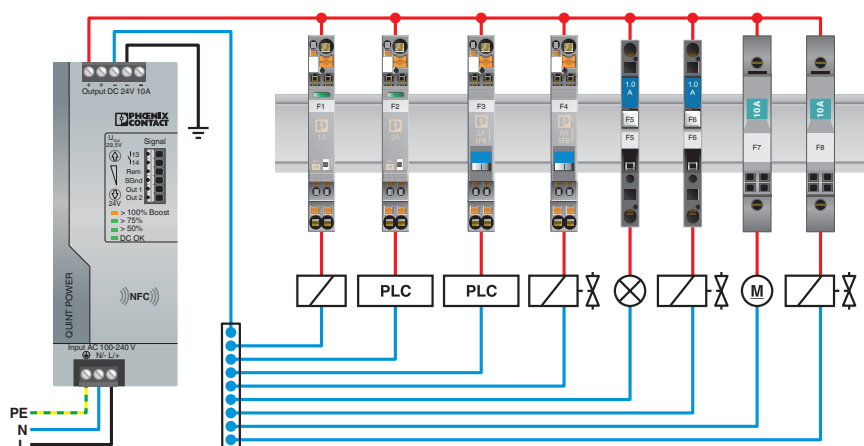
Drawings

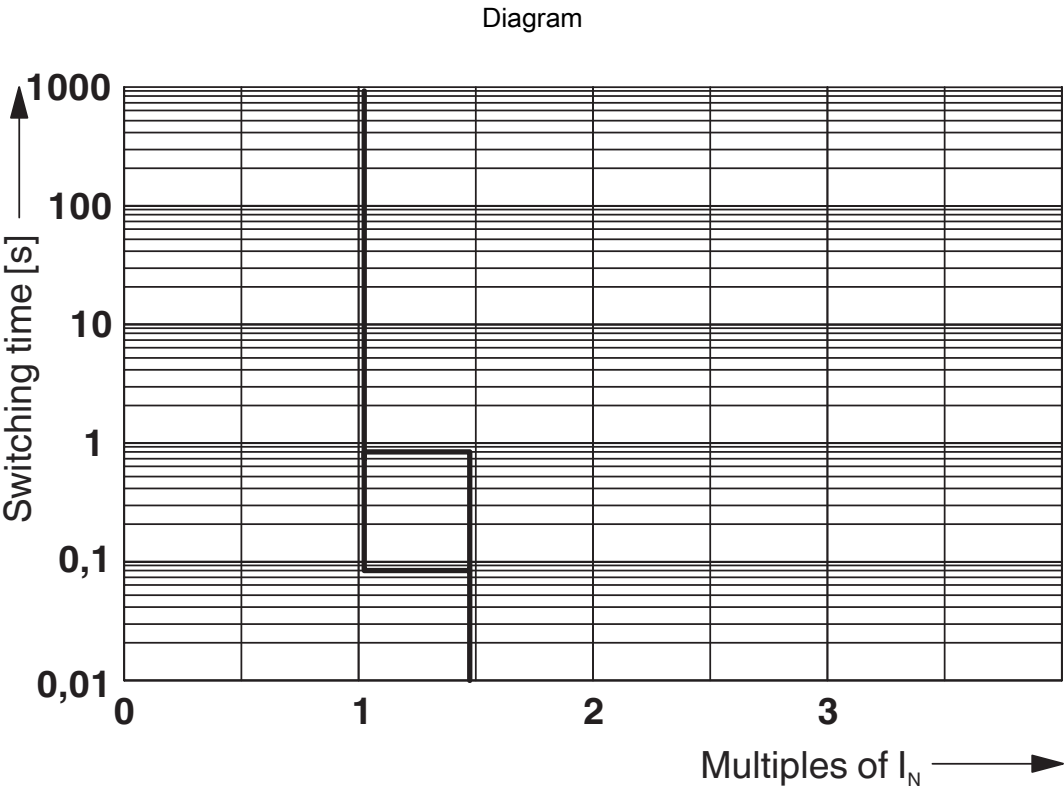
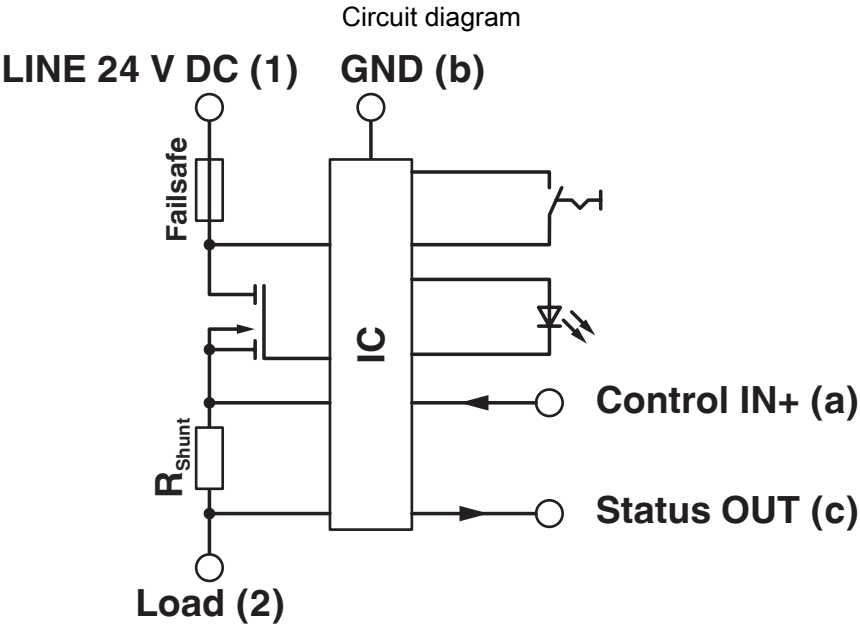
Dimensional drawing



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

Application drawing





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: 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 9.0	EC003538
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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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