

CB E1 24DC/6A NO P - Electronic circuit breaker



2800905

<https://www.phoenixcontact.com/us/products/2800905>

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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	2800905
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA134
Catalog page	Page 382 (C-4-2019)
GTIN	4046356690751
Weight per piece (including packing)	35.2 g
Weight per piece (excluding packing)	21.4 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

Pollution degree	2
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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. $1.25 \times I_N$
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)
	> 17 V (typ. ON)

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Max. capacitive load	20000 μ F
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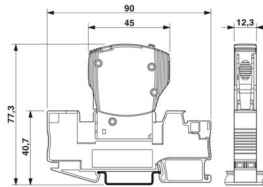
Auxiliary contact

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	
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
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Shipbuilding approval

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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