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Electronic device circuit breaker - CB E1 24DC/3A NO P - 2800903

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Electronic device circuit breaker, 1-pos., active current limitation, 1 N/O contact, plug for base element.

The figure shows the CB E1
24DC/1A NO P version

Why buy this product

- Compact design with precise nominal current levels
- Modular expansion possible thanks to the uniform, plug-in housing concept
- Sophisticated remote signaling concept enables monitoring from any location
- N/O contact for remote signaling of the operating state
- Active current limitation, even when switching capacitive loads
- Supply/remote signaling can be bridged with CLIPLINE complete accessories

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 690737

Technical data

Dimensions

Height	45 mm
Width	12.3 mm
Depth	52 mm
Complete module height	90 mm
Complete module width	12.3 mm
Complete module depth	77.3 mm

Ambient conditions

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
Degree of protection	IP30 (Actuation area)

General

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Technical data

General

Installation instructions	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.
Flammability rating according to UL 94	V0
Mounting type	On base element
Color	gray
Number of positions	1
Degree of pollution	2
Type	Male

Electrical data

Fuse type	Electronic
Rated surge voltage	0.5 kV
Operating voltage	24 V DC
	18 V DC ... 30 V DC
Nominal current I_N	3 A
Required backup fuse	not required, integrated failsafe element
Active current limitation	typ. $1.25 \times I_N$
Contact type	Without electrical isolation
Closed circuit current I_0	typ. 8 mA (When switched on)
	typ. 17 mA (With alarm output)
Power dissipation	0.77 W (Nominal operation)
Temperature derating	3 A (at 50°C)
Tripping method	E (electronic)
Dielectric strength	max. 30 V DC (Load circuit)
Voltage drop	120 mV (at I_N)
Contact type	Without electrical isolation
Shutdown time load circuit	300 ms (see time/current characteristic curve)
Undervoltage shutdown load circuit	< 14 V (typ. OFF)
	> 17 V (typ. ON)
Max. capacitive load load circuit	20000 μ F
Auxiliary type of contact	floating signal contact
Minimum auxiliary contact operating voltage	10 V DC
Maximum auxiliary contact operating voltage	30 V DC
Minimum auxiliary contact operating current	10 mA
Maximum auxiliary contact operating current	0.5 A

Standards and Regulations

Standards/specifications	UL 2367 UL recognized
	UL 508 UL/C-UL listed

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Standards and Regulations

	EMV EN 61000-6-3 Noise emission
	EMV EN 61000-6-2 Noise immunity

Classifications

eCl@ss

eCl@ss 4.0	27141116
eCl@ss 4.1	27141116
eCl@ss 5.0	27141116
eCl@ss 5.1	27141116
eCl@ss 6.0	27141116
eCl@ss 7.0	27141116
eCl@ss 8.0	27141116

ETIM

ETIM 3.0	EC000899
ETIM 4.0	EC000899
ETIM 5.0	EC000899

UNSPSC

UNSPSC 6.01	30211812
UNSPSC 7.0901	39121411
UNSPSC 11	39121411
UNSPSC 12.01	39121411
UNSPSC 13.2	39121411

Approvals

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UL Recognized / GL / UL Listed / cUL Listed / EAC / EAC / cULus Listed


Ex Approvals

Approvals submitted

Approval details

Electronic device circuit breaker - CB E1 24DC/3A NO P - 2800903

Approvals

UL Recognized 

GL

UL Listed 

cUL Listed 

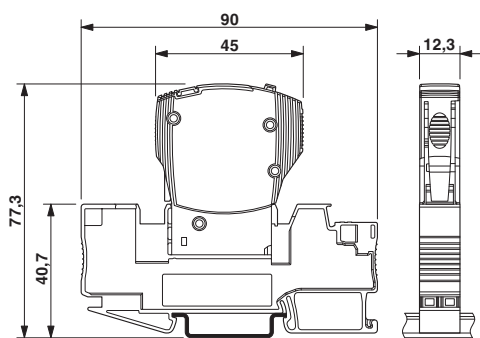
EAC

EAC

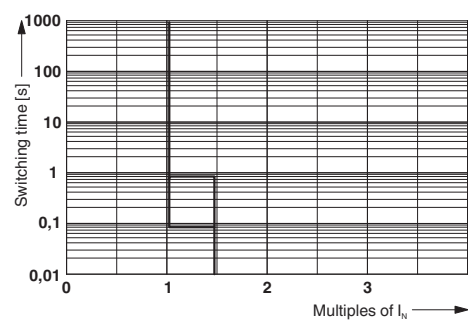
cULus Listed 

Drawings

Dimensional drawing

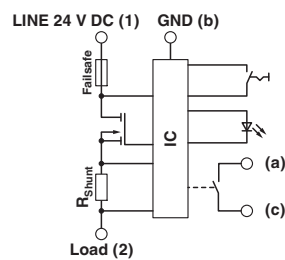


Diagram

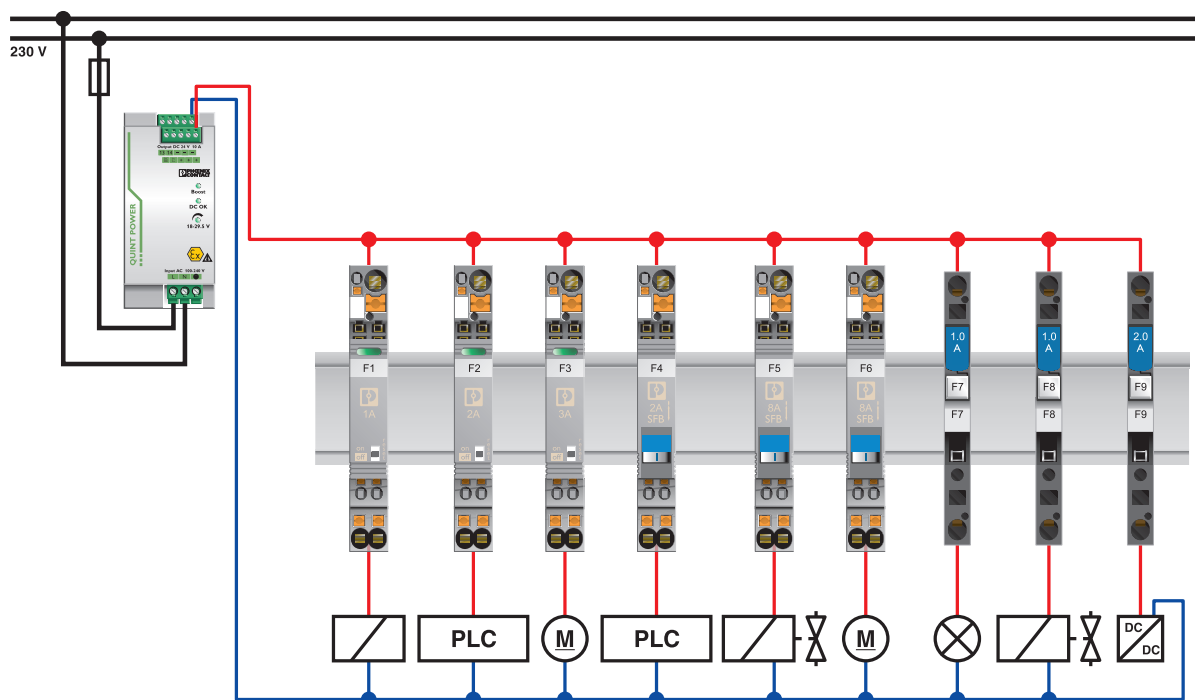


The figure shows the complete module consisting of a base element and Trigger characteristic connector

Circuit diagram



Application drawing



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Product	Code	Reference	Product link
Electronic device circuit breaker, 1-pos., active current limitation, 1 N/O contact, plug for base element.	2800903	CB E1 24DC/3A NO P	Buy on EAN