

# Electronic device circuit breaker - CB E1 24DC/3A NC P - 2800917

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

The figure shows the CB E1 24DC/1A NC 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/C 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	0
Minimum order quantity	1
GTIN	 4 046356 690669
Custom tariff number	85363010
Country of origin	GERMANY

## 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.
Height	45 mm
Width	12.3 mm
Depth	52 mm
Höhe Kompletmodul	90 mm

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## Technical data

### General

Breite Komplettdmodul	12.3 mm
Tiefe Komplettdmodul	77.3 mm
Ambient temperature (operation)	0 °C ... 50 °C (without condensation)
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Degree of protection	IP30 (Actuation area)
Mounting type	On base element
Color	gray
Number of positions	1
Pollution degree	2
Design	Male

### Technical data

Fuse type	Electronic
Rated surge voltage	0.5 kV
Operating voltage	24 V DC
Operating voltage	18 V DC ... 30 V DC
Nominal current $I_N$	3 A
Kontaktart des Hilfskontaktes	potenzialfreier Signalkontakt
minimale Betriebsspannung Hilfskontakt	10 V DC
maximale Betriebsspannung Hilfskontakt	30 V DC
minimaler Betriebsstrom Hilfskontakt	10 mA
maximaler Betriebsstrom Hilfskontakt	0.5 A
Tripping method	E (electronic)
Required backup fuse	(not required, integrated failsafe element)
Dielectric strength	max. 30 V DC (Load circuit)
Voltage drop	120 mV (at $I_N$ )
Switch off	typ. $1.25 \times I_N$
Current limitation	active
Contact type	Without electrical isolation
Closed circuit current $I_0$	Typ. 8 mA (When switched on)
Closed circuit current $I_0$	Typ. 17 mA (With alarm output)

### Standards

Standard - Electrical safety	UL 2367
Standard - Electrical safety	UL 508
Standard - Electrical safety	CSA 22.2 No. 14
Standard - Electrical safety	EMV EN 61000-6-3 Noise emission
Standard - Electrical safety	EMV EN 61000-6-2 Noise immunity

## Classifications

### ETIM

ETIM 3.0	EC000899
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## Classifications

### ETIM

ETIM 4.0	EC000899
ETIM 5.0	EC000899

### UNSPSC

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

### 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

## Accessories

### Accessories

#### Bridges

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, Number of positions: 2, Color: red

Plug-in bridge - FBS 3-6 - 3030242



Plug-in bridge, Number of positions: 3, Color: red

Plug-in bridge - FBS 4-6 - 3030255



Plug-in bridge, Number of positions: 4, Color: red

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## Accessories

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Plug-in bridge - FBS 5-6 - 3030349



Plug-in bridge, Number of positions: 5, Color: red

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Plug-in bridge - FBS 10-6 - 3030271



Plug-in bridge, Number of positions: 10, Color: red

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Plug-in bridge - FBS 20-6 - 3030365



Plug-in bridge, Number of positions: 20, Color: red

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Plug-in bridge - FBS 50-6 - 3032224



Plug-in bridge, Number of positions: 50, Color: red

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## Marking

Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735



Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 12 mm, Lettering field: 5.15 x 12.15 mm

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### Accessories

Zack Marker strip, flat - ZBF 12 CUS - 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: 5.15 x 12.15 mm

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### Tools

Cable-cutting tool - CUTFOX-FBS - 1212124



Cutting tool, for separating individual jumper bars from FBS ... plug-in bridges and EB ... insertion bridges

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Jumper - CB PT BRIDGE - 2801014



Bridge plugs for the CB 1/6-2/4 PT-BE base element

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### Additional products

Base element - CB 1/6-2/4 PT-BE - 2800929



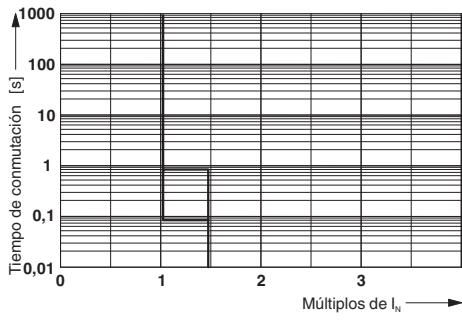
Base element with push-in connection technology for CB ... device circuit breakers

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### Drawings

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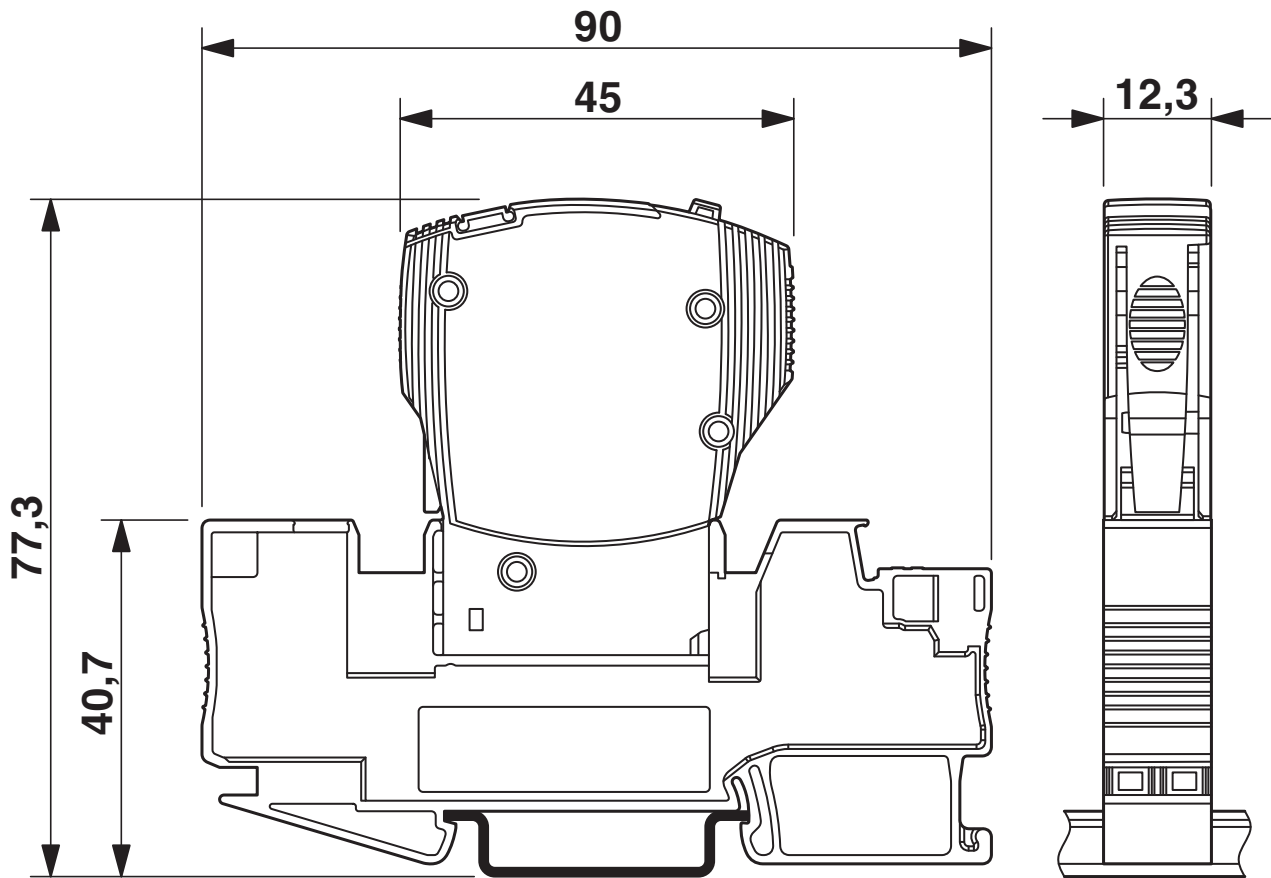
Diagram



Trigger characteristic

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Dimensioned drawing



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



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