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Electronic device circuit breaker - CB E1 24DC/6A S-R P - 2800912

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The figure shows the CB E1 24DC/1A S-R P version

Electronic device circuit breaker, 1-pos., active current limitation, status output and reset input, plug for base element.

Product Features

☑ 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

☑ The reset input can be switched by means of remote control

☑ Active current limitation, even when switching capacitive loads

☑ Supply/remote signaling can be bridged with CLIPLINE complete accessories

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	0.04 GRM
Custom tariff number	85362010
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.
Inflammability class according to UL 94	V0
Mounting type	On base element
Color	gray

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Technical data

General

Number of positions	1
Pollution degree	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	6 A
Auxiliary contact type	Positive-switching signal output
Tripping method	E (electronic)
Required backup fuse	not required, integrated failsafe element
Dielectric strength	max. 30 V DC (Load circuit)
Voltage drop	130 mV (at I_N)
Switch off	typ. 1.25 x I_N
Current limitation	active
Contact type	Without electrical isolation
Closed circuit current I_0	typ. 8 mA (When switched on)
	typ. 11 mA (With status output)

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)	-20 °C ... 70 °C
Degree of protection	IP30 (Actuation area)

Standards and Regulations

Standards/specifications	UL 2367
	UL 508
	CSA 22.2 No. 14
	EMV EN 61000-6-3 Noise emission

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Technical data

Standards and Regulations

	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

Approvals

Approvals

UL Recognized / GL
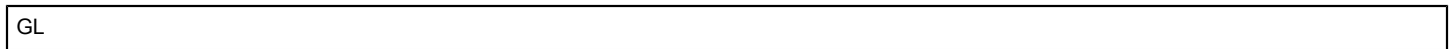
Ex Approvals

Approvals submitted

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Approvals

Approval details

UL Recognized

GL

Accessories

Accessories

Bridge

Jumper - CB PT BRIDGE - 2801014

Bridge plug for bridging contacts 1 to 2 for CB base elements

Jumper - CB RC BRIDGE - 2801616

Bridge plug for bridging contacts 11 to 14 for CB base elements

Cutting tools

Front cutter - CUTFOX-FBS - 1212124

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

Jumper

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Accessories

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

Plug-in bridge - FBS 5-6 - 3030349

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

Plug-in bridge - FBS 10-6 - 3030271

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

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Accessories

Plug-in bridge - FBS 20-6 - 3030365

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

Plug-in bridge - FBS 50-6 - 3032224

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

Labeled terminal marker

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

Terminal marking

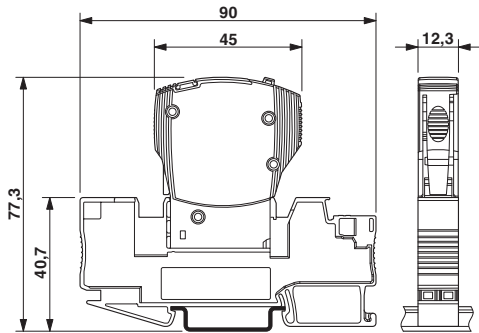Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735

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
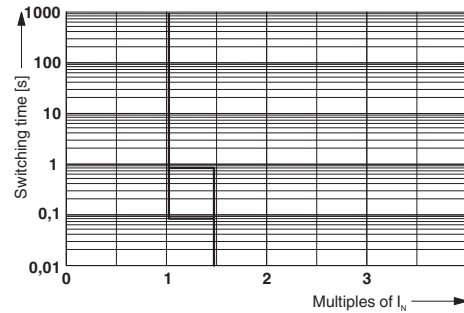
Drawings

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Dimensioned drawing

90
45
12,3
77,3
40,7

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

Diagram

1000
100
10
1
0,1
0,01

Switching time [s]

0   1   2   3

Multiples of I_N

Trigger characteristic

Circuit diagram

LINE 24 V DC (1)   GND (b)

Failsafe

IC

R_shunt

Load (2)

Reset IN+ (a)

Status OUT (c)

Catalog photo

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CB E1 24DC/1A S-R P
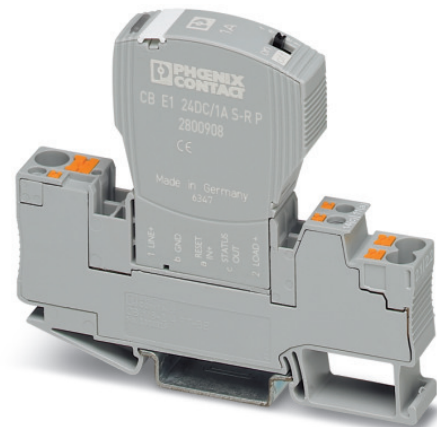2800908
CE
Made in Germany
6347
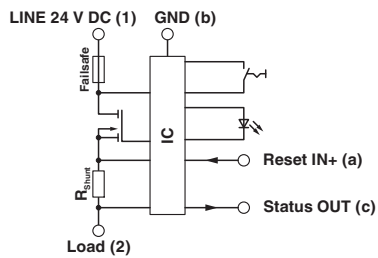
Figure may contain other products.

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Application drawing