

## Electronic device circuit breaker - CB E1 24DC/1A NC P - 2800915

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

### 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                   | <br>4 046356 690645 |
| 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).<br>Special precautionary measures must be taken in systems or machines, to prevent components from restarting (e.g., use of a safety PLC).<br>Parallel connection of multiple circuit breakers is not permitted. |
| Height                    | 45 mm                                                                                                                                                                                                                                                                                                                                                                                                              |
| Width                     | 12.3 mm                                                                                                                                                                                                                                                                                                                                                                                                            |
| Depth                     | 52 mm                                                                                                                                                                                                                                                                                                                                                                                                              |
| Höhe Kompletmodul         | 90 mm                                                                                                                                                                                                                                                                                                                                                                                                              |
| Breite Kompletmodul       | 12.3 mm                                                                                                                                                                                                                                                                                                                                                                                                            |

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## Technical data

### General

|                                         |                                       |
|-----------------------------------------|---------------------------------------|
| Tiefe Kompletmodul                      | 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 $I_N$                  | 1 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                           | 140 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)                |
| 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 |
| ETIM 4.0 | EC000899 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| 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

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

# Electronic device circuit breaker - CB E1 24DC/1A NC P - 2800915

Diagram



Trigger characteristic

## Electronic device circuit breaker - CB E1 24DC/1A NC P - 2800915

Dimensioned drawing



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



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