

## Electronic device circuit breaker - ECP-E2-4A - 0900430

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Electronic device circuit breaker, number of positions: 1, connection method: Screw connection, width: 12.5 mm, fuse type: electronic, fuse type: Automatic device, mounting type: on base element, Color: black

### Your advantages

- ✓ Includes the advantages of current limitation
- ✓ Output voltage of switched-mode power supply unit remains stable
- ✓ Sufficient supply of all error-free load circuits
- ✓ In addition, the ECP-E2 can be controlled remotely by the control input (12), e.g., by means of a PLC
- ✓ Responds faster than switched-mode power supply unit to overload and short circuit
- ✓ Application - all aspects of the switched-mode power supply unit

**RoHS**

### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 5 pc                                                                                 |
| GTIN         |  |
| GTIN         | 4046356106948                                                                        |

### 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. |
| Mounting type                          | on base element                                                                                                                                                                                                                                                                                                                                                                                              |
| Color                                  | black                                                                                                                                                                                                                                                                                                                                                                                                        |
| Number of positions                    | 1                                                                                                                                                                                                                                                                                                                                                                                                            |
| Overvoltage category                   | II                                                                                                                                                                                                                                                                                                                                                                                                           |
| Insulating material                    | PA66/6                                                                                                                                                                                                                                                                                                                                                                                                       |
| Flammability rating according to UL 94 | V0                                                                                                                                                                                                                                                                                                                                                                                                           |

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## Technical data

### Electrical data

|                                    |                                                         |
|------------------------------------|---------------------------------------------------------|
| Fuse                               | electronic                                              |
| Fuse type                          | Automatic device                                        |
| Rated surge voltage                | 0.5 kV                                                  |
| Operating voltage                  | 24 V DC                                                 |
|                                    | 24 V DC (at 50 °C (UL 2367, UL 508, ANSI/ISA 12.12.01)) |
|                                    | 18 V DC ... 32 V DC                                     |
| Nominal current $I_N$              | 4 A                                                     |
| Required backup fuse               | not required, integrated failsafe element               |
| Dielectric strength                | max. 32 V DC (Load circuit)                             |
| Degree of pollution                | 2                                                       |
| Overvoltage category               | II                                                      |
| Insulating material group          | I                                                       |
| Switching capacity $I_{CN}$        | Active current limitation                               |
| Closed-circuit current range $I_O$ | typ. 25 mA $\pm$ 5 mA (When switched on)                |

### Dimensions

|                        |          |
|------------------------|----------|
| Height                 | 60 mm    |
| Width                  | 12.5 mm  |
| Depth                  | 70 mm    |
| Height NS 35/7,5       | 144 mm   |
| Height NS 35/15        | 151.5 mm |
| Complete module height | 115 mm   |
| Complete module width  | 38 mm    |
| Complete module depth  | 112.5 mm |

### Ambient conditions

|                                 |                                 |
|---------------------------------|---------------------------------|
| Degree of protection            | IP30 (Actuation area)           |
| Ambient temperature (operation) | 0 °C ... 50 °C (non-condensing) |

### Connection data

|                   |                  |
|-------------------|------------------|
| Connection method | Screw connection |
|-------------------|------------------|

### Standards and Regulations

|                          |                 |
|--------------------------|-----------------|
| Standards/specifications | UL 2367         |
|                          | UL 508          |
|                          | CSA 22.2 No. 14 |

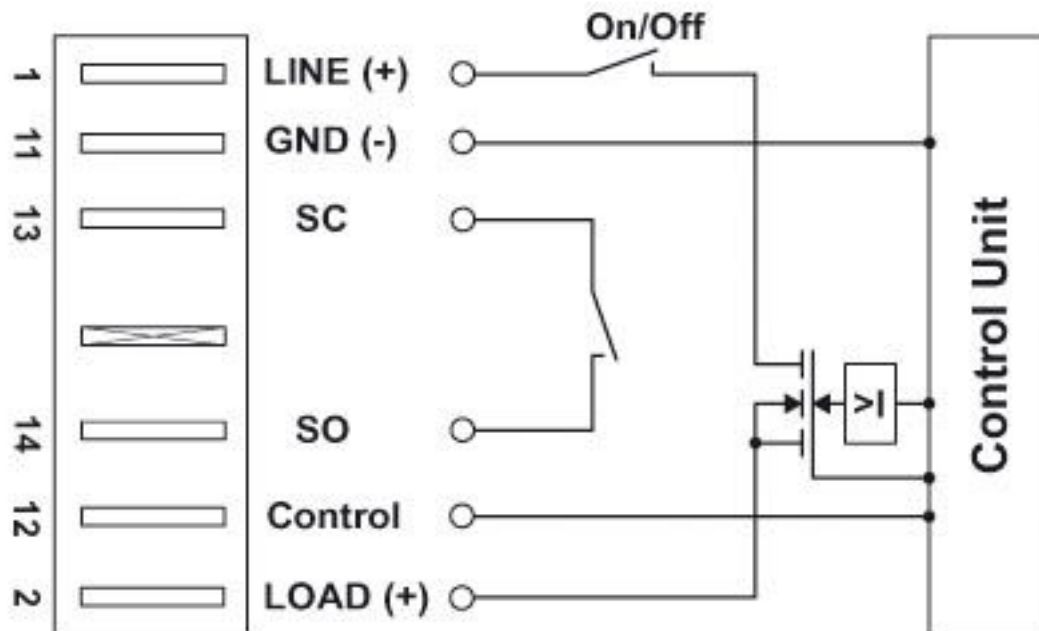
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

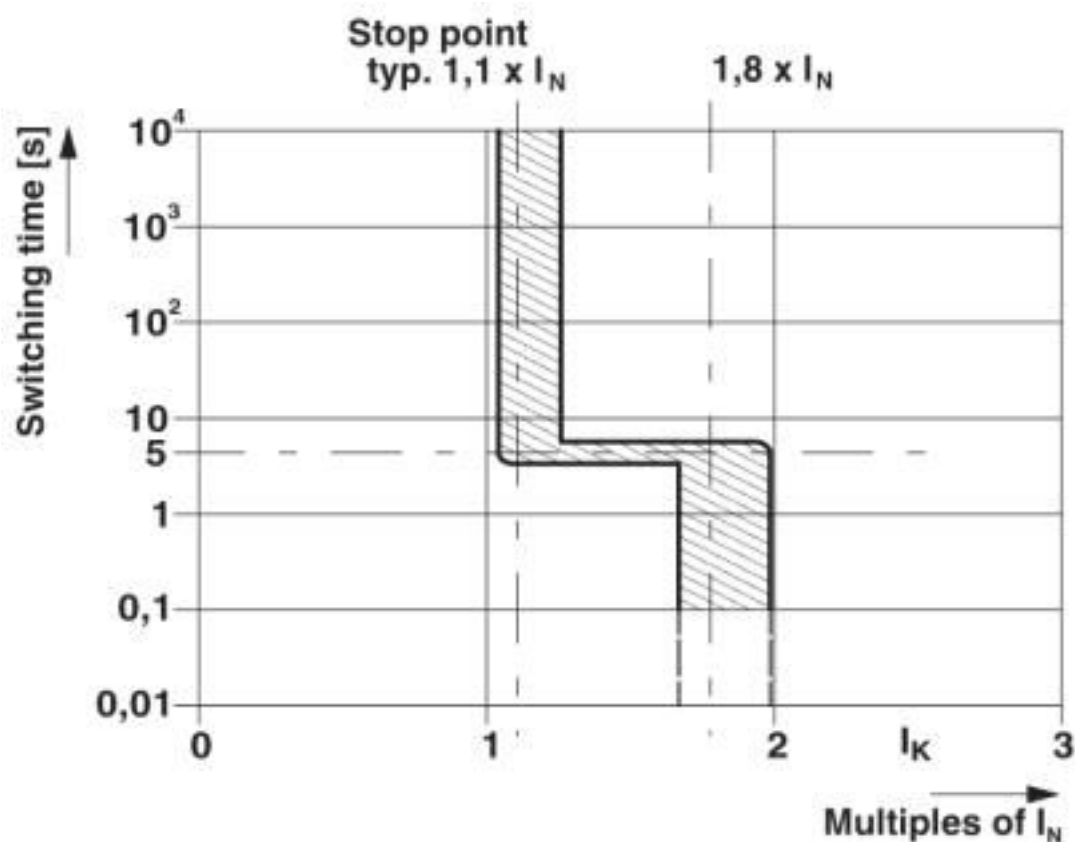
## Electronic device circuit breaker - ECP-E2-4A - 0900430

Block diagram



## Electronic device circuit breaker - ECP-E2-4A - 0900430

Diagram



### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27140401 |
| eCl@ss 4.0    | 27141100 |
| eCl@ss 4.1    | 27141100 |
| eCl@ss 5.0    | 27141100 |
| eCl@ss 5.1    | 27141100 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141116 |
| eCl@ss 8.0    | 27141116 |
| eCl@ss 9.0    | 27141116 |

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000899 |
| ETIM 3.0 | EC000899 |
| ETIM 4.0 | EC000899 |
| ETIM 5.0 | EC000899 |
| ETIM 6.0 | EC000899 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 7.0 | EC000899 |
|----------|----------|

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211812 |
| UNSPSC 7.0901 | 39121411 |
| UNSPSC 11     | 39121411 |
| UNSPSC 12.01  | 39121411 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |
| UNSPSC 20.0   | 39121410 |
| UNSPSC 21.0   | 39121410 |

### Approvals

#### Approvals

#### Approvals

UL Recognized

#### Ex Approvals

UL Recognized / CSA

#### Approval details

|               |                                                                                     |                                                                                                                                                       |               |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 317172 |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

### Accessories

#### Accessories

#### Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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### Accessories

#### Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

### Additional products

Box mounting base - TMCP SOCKET M - 0916589



Modular socket element, 2-position, for holding two circuit breakers, each with a single position

End cover - TMCP CONNECT LR - 0916592



End cover, width: 6 mm, Color: black

# Mouser Electronics

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