

## Electronic device circuit breaker - ECP 4 - 0912034

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Electronic device circuit breaker, connection method: pluggable, width: 12.5 mm, fuse type: electronic, fuse type: Automatic device, mounting type: on base element, Color: black

### Why buy this product

- ✓ Can be plugged onto TMCP SOCKET M base
- ✓ Design width of just 12.5 mm
- ✓ Selective protection of all 24 V DC load circuits at switched-mode power supply units
- ✓ Capacitive loads can be switched on and loads are only switched off in the event of an overload or short circuit
- ✓ Operating or error state indicated by LED and integrated signal contacts
- ✓ Residual current always limited to 1.8 times the nominal current
- ✓ Combination of active electronic current limitation and proven circuit breaker technology including electrical isolation

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 5 STK                                                                                                   |
| GTIN         | <br>4 046356 174602 |
| GTIN         | 4046356174602                                                                                           |

### 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). Parallel connection of multiple load outputs is not permitted. |
| Number of levels                       | 1                                                                                                                                                                                                                                                                  |
| Mounting type                          | on base element                                                                                                                                                                                                                                                    |
| Color                                  | black                                                                                                                                                                                                                                                              |
| Overvoltage category_GRP               | II                                                                                                                                                                                                                                                                 |
| Insulating material                    | PPS                                                                                                                                                                                                                                                                |
| 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                                   |
|                              | 18 V DC ... 32 V DC                       |
| Nominal current $I_N$        | 4 A                                       |
| Required backup fuse         | not required, integrated failsafe element |
| Dielectric strength          | 1000 V AC (Actuation area)                |
|                              | 500 V AC (Installation area)              |
|                              | 500 V AC (Load circuit signal contact)    |
| Degree of pollution          | 2                                         |
| Overvoltage category_GRP     | II                                        |
| Insulating material group    | IIIa                                      |
| Switching capacity $I_{CN}$  | Active current limitation                 |
| Closed circuit current $I_0$ | typ. 13 mA                                |

### 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  | 147.5 mm |

### Ambient conditions

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

### Connection data

|                   |           |
|-------------------|-----------|
| Connection method | pluggable |
|-------------------|-----------|

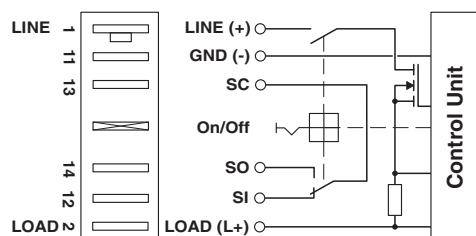
### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

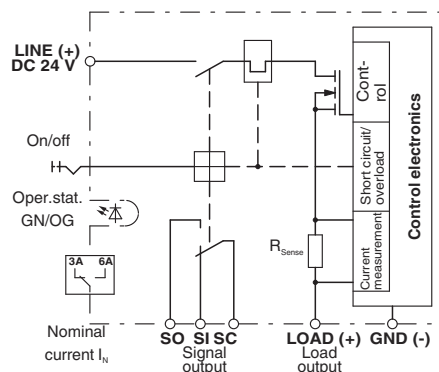
## Drawings

## Electronic device circuit breaker - ECP 4 - 0912034

Block diagram



Circuit diagram



### Approvals

#### Approvals

#### Approvals

VDE Zeichengenehmigung / EAC / EAC

#### Ex Approvals

#### Approval details

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40030007 |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|

|     |                                                                                     |               |
|-----|-------------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-------------------------------------------------------------------------------------|---------------|

|     |                                                                                     |                         |
|-----|-------------------------------------------------------------------------------------|-------------------------|
| EAC |  | RU C-<br>DE.A*30.B01546 |
|-----|-------------------------------------------------------------------------------------|-------------------------|

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