

# ECP 8 - Electronic circuit breaker



0912019

<https://www.phoenixcontact.com/us/products/0912019>

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Electronic circuit breaker, 1-position, connection method: pluggable, tripping characteristic: electronic, fuse type: Automatic device, mounting type: on base element

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 0912019       |
| Packing unit                         | 1 pc          |
| Sales key                            | CL04          |
| Product key                          | CLA132        |
| GTIN                                 | 4046356014342 |
| Weight per piece (including packing) | 75.99 g       |
| Weight per piece (excluding packing) | 72.82 g       |
| Customs tariff number                | 85362010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Device circuit breakers |
| Product family      | ECP                     |
| Type                | Male                    |
| Number of positions | 1                       |
| Number of rows      | 1                       |
| No. of channels     | 1                       |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 2  |

### Electrical properties

|                             |  |
|-----------------------------|--|
| Fuse type                   | Automatic device                                 |
| Switch-on delay             | 300.00 ms  |
| Short-circuit current       | Active current limitation, max. $1.8 \times I_N$ |
| Service life electrical     | 10000 cycles in the case of $1 \times I_N$       |
| Switching capacity $I_{CN}$ | Active current limitation                        |
| Fuse                        | electronic                                       |

### General

|                              |   |
|------------------------------|---|
| Operating voltage            | 24 V DC                                   |
|                              | 18 V DC ... 32 V DC                       |
| Nominal current $I_N$        | 8 A                                       |
| Rated surge voltage          | 0.5 kV                                    |
| Tripping method              | E (electronic)                            |
| 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)    |
| Switch off                   | typ. $1.5 \times I_N$                     |
| Active current limitation    | active                                    |
| Fuse                         | electronic                                |
| Closed circuit current $I_0$ | typ. 13 mA                                |
| Voltage drop                 | 220 mV (at $I_N$ )                        |
| Contact switching type       | With electrical isolation                 |

### Load circuit

|                      |  |
|----------------------|--|
| Shutdown time        | typ. 5 s (for electrical insulation when $I_{Load} > 1.1 \times I_N$ ) |
| Max. capacitive load | 20000 $\mu$ F  |
| Switch-on delay      | typ. 0.3 s   |

### Auxiliary contact

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|   |                         |
|---|-------------------------|
| Contact connection type                 | floating signal contact |
| Minimum operating voltage $U_{\min}$ DC | 10 V DC                 |
| Maximum operating voltage $U_{\max}$ DC | 30 V DC                 |
| Minimum operating current $I_{\min}$    | 10 mA                   |
| Max. operating current $I_{\max}$       | 0.5 A                   |

## Connection data

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

## Dimensions

|                        |          |
|------------------------|----------|
| Width                  | 12.5 mm  |
| Height                 | 60 mm    |
| Height NS 35/15        | 151.5 mm |
| Height NS 35/7,5       | 144 mm   |
| Depth                  | 70 mm    |
| Complete module width  | 38 mm    |
| Complete module height | 115 mm   |
| Complete module depth  | 147.5 mm |

## Material specifications

|  |      |
|--|------|
| Flammability rating according to UL 94 | V0   |
| Insulating material group              | IIIa |
| Insulating material                    | PPS  |

## Environmental and real-life conditions

### Ambient conditions

|   |                                 |
|---|---------------------------------|
| Degree of protection                    | IP30 (Actuation area)           |
| Ambient temperature (operation)         | 0 °C ... 50 °C (non-condensing) |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C                |
| Humidity test                           | 96 h, 95 % RH, 40 °C            |

## Mounting

|               |                 |
|---------------|-----------------|
| Mounting type | on base element |
|---------------|-----------------|

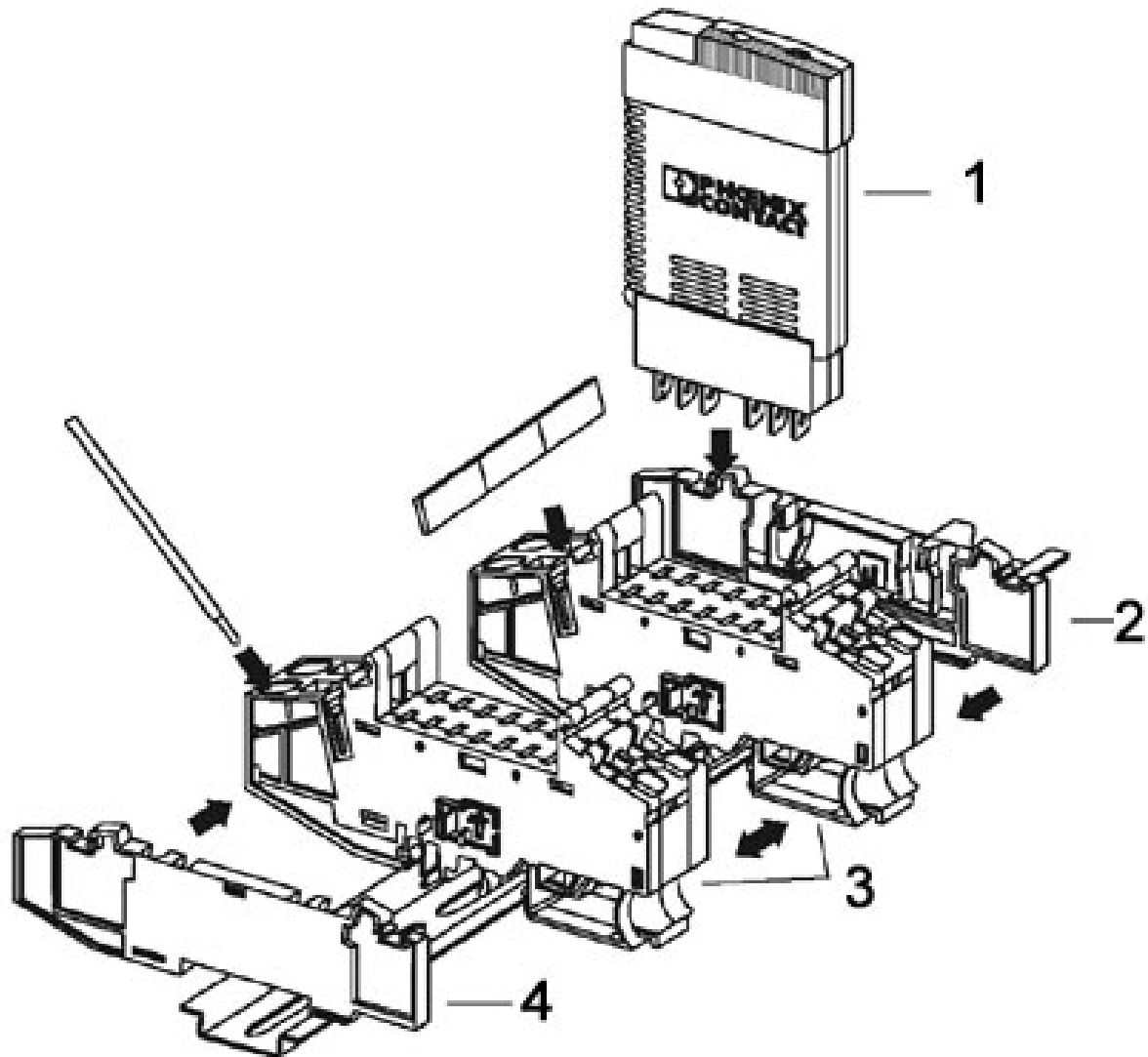
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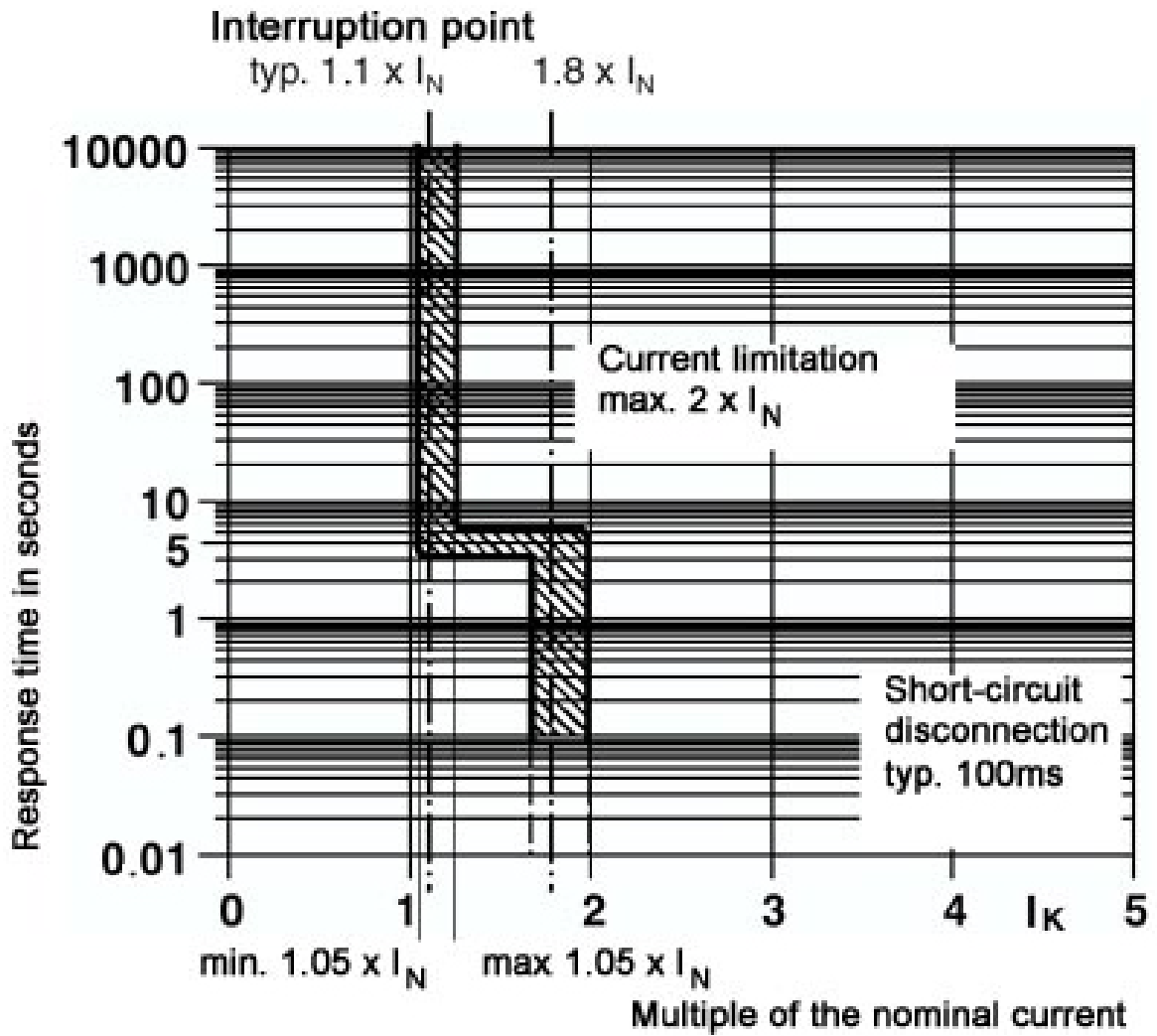
## Drawings

Functional drawing



- 1 = Selective circuit breaker
- 2 = Socket termination element
- 3 = Modular socket element
- 4 = Socket termination element

Diagram

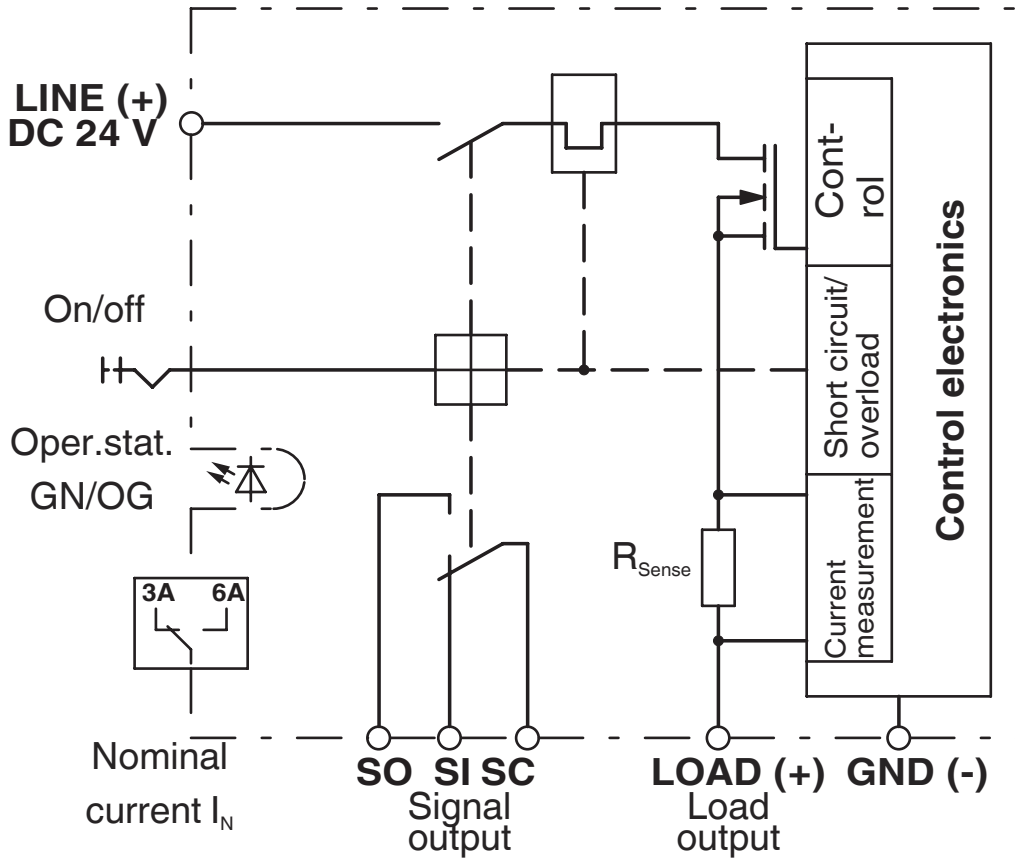


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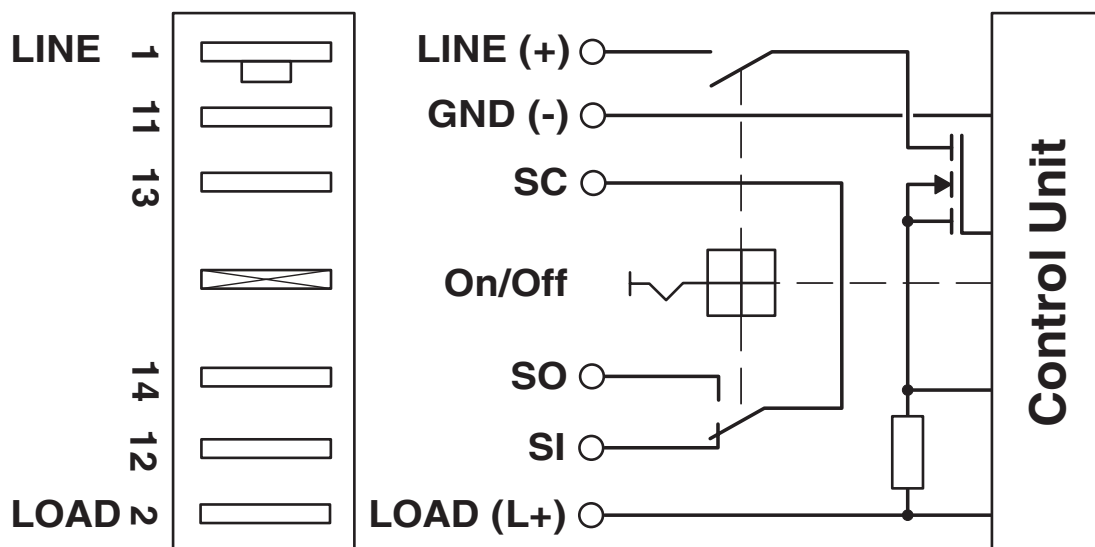
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Circuit diagram



Block diagram



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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121410 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |            |
|---|------------|
| Fulfills EU RoHS substance requirements | Yes        |
| Exemption                               | 6(c), 7(a) |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                      |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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