

2800923

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

Your advantages

- · Individually adjustable with protective plugs
- · Protective plug with fixed nominal current value as protection against unintentional changes
- · Active current limitation to improve the capacity of the upstream power supply
- · Remote switch-on and switch-off thanks to the controller function
- Increased system transparency with integrated remote message function

Commercial data

| Item number | 2800923 |
|--------------------------------------|---------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL04 |
| Product key | CLA134 |
| GTIN | 4046356690799 |
| Weight per piece (including packing) | 34.51 g |
| Weight per piece (excluding packing) | 20.64 g |
| Customs tariff number | 85362010 |
| Country of origin | DE |



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Technical data

Notes

| General | 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. |
|---------|--|
|---------|--|

Product properties

| Product type | Device circuit breakers | |
|----------------------------|-------------------------|--|
| Product family | CB E | |
| Туре | Male | |
| Number of positions | 1 | |
| No. of channels | 1 | |
| Insulation characteristics | | |
| Degree of pollution | 2 | |

Electrical properties

General

| Operating voltage | 24 V DC |
|---------------------------------------|---|
| | 18 V DC 30 V DC |
| Nominal current I _N | 2 A |
| Rated surge voltage | 0.5 kV |
| Tripping method | E (electronic) |
| Required backup fuse | not required, integrated failsafe element |
| Dielectric strength | max. 30 V DC (Load circuit) |
| Active current limitation | typ. 1.25 x I _N |
| Fuse | electronic |
| Closed circuit current I ₀ | typ. 8 mA (When switched on) |
| | typ. 11 mA (With status output) |
| Power dissipation | 0.46 W (Nominal operation) |
| Temperature derating | 2 A (at 50 °C) |
| MTBF (IEC 61709, SN 29500) | 8320000 h (at 25 °C with 80 % load) |
| | 7410000 h (at 40 °C with 80 % load) |
| Voltage drop | 100 mV (at I _N) |
| Fail-safe element | 4 A DC |
| Contact switching type | without electrical isolation |

Load circuit

| Shutdown time | 400 ms (see time/current characteristic curve) |
|-------------------------|--|
| Undervoltage switch-off | < 14 V (typ. OFF) |



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| | > 17 V (typ. ON) | | |
|-------------------------|----------------------------------|--|--|
| Max. capacitive load | 20000 μF | | |
| Switch-on delay | typ. 2 ms | | |
| Auxiliary contact | | | |
| Contact connection type | Positive-switching signal output | | |
| Status output | | | |
| Output voltage | 24 V DC | | |
| Output current | max. 0.2 A (Short-circuit-proof) | | |

Connection data

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

Dimensions

| Dimensional drawing | 90 45 12.3 FL |
|------------------------|------------------------|
| Width | 12.3 mm |
| Height | 45 mm |
| Depth | 52 mm |
| Complete module width | 12.3 mm |
| Complete module height | 90 mm |
| Complete module depth | 77.3 mm |

Material specifications

| Color | gray (RAL 7042) |
|--|------------------|
| | black (RAL 9005) |
| Flammability rating according to UL 94 | V-0 |

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP30 (Actuation area) |
|---|--|
| Ambient temperature (operation) | -25 °C 50 °C (non-condensing) |
| Ambient temperature (storage/transport) | -40 °C 70 °C |
| Humidity test | 96 h, 95 % RH, 40 °C |
| Vibration (operation) | 3g (according to IEC 60068-2-6, Test Fc) |

Approvals

UL approval

| of approval | | |
|-------------|----------------|------------------|
| | Identification | UL Listed UL 508 |



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| | | UL Recognized UL 2367 | |
|-----|---------------------------|-----------------------|--|
| S | hipbuilding approval | | |
| | Identification | DNV GL | |
| Sta | Standards and regulations | | |
| | Standard designation | EMV | |
| | Standards/specifications | EN 61000-6-3 | |
| | Note | Interference emission | |
| | Standard designation | EMV | |
| | Standards/specifications | EN 61000-6-2 | |
| | Note | Noise immunity | |
| Мо | Mounting | | |
| | Mounting type | on base element | |



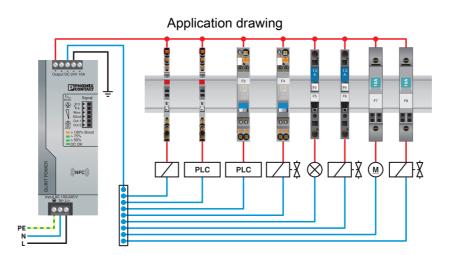
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Drawings

Dimensional drawing 90 45 12,3

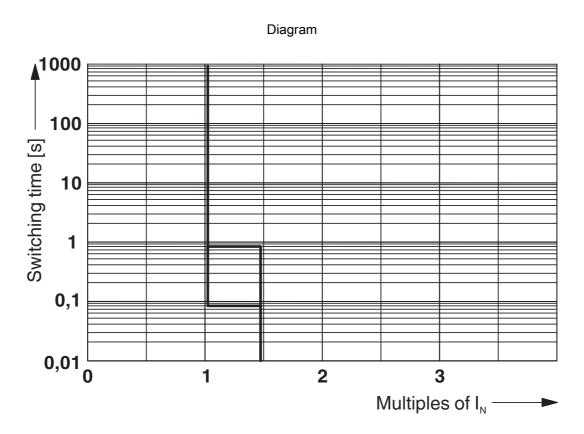
The figure shows the complete module consisting of a base element and connector



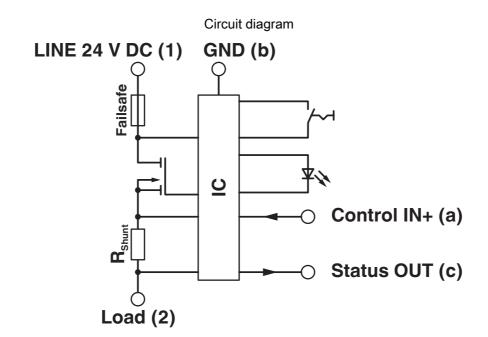


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Trigger characteristic





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Approvals

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UL Recognized

Approval ID: FILE E 317172



DNV GL

Approval ID: TAE00003KA



cULus Listed

Approval ID: E123528



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Classifications

ECLASS

| | ECLASS-13.0 | 27140401 | |
|--------|-------------|----------|--|
| | ECLASS-15.0 | 27140401 | |
| ETIM | | | |
| | ETIM 9.0 | EC003538 | |
| UNSPSC | | | |
| | UNSPSC 21.0 | 39121400 | |



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Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes |
|---|---|
| Exemption | 7(a), 7(c)-I |
| China RoHS | |
| invironment friendly use period (EFUP) | EFUP-25 |
| | 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: n/a) |
| SCIP | 30f5c80b-0cdd-4238-a523-4db58d37c1f0 |
| EF3.0 Climate Change | |
| CO2e kg | 2.98 kg CO2e |

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com