

0903033

https://www.phoenixcontact.com/pc/products/0903033

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Electronic circuit breaker, signal contact: 1 N/C contact, nominal current: 2 A

Your advantages

- · Error-free short-circuit detection even across long cable paths with the electronics characteristic curve
- · Active current limitation to improve the capacity of the upstream power supply
- Increased system transparency with integrated floating remote indication contact (N/O)

Commercial data

| Item number | 0903033 |
|--------------------------------------|---------------------|
| Packing unit | 6 pc |
| Minimum order quantity | 1 pc |
| Product key | CLA131 |
| Catalog page | Page 386 (C-4-2019) |
| GTIN | 4046356328081 |
| Weight per piece (including packing) | 68.033 g |
| Weight per piece (excluding packing) | 68.033 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 | EC-E |
| Туре | DIN rail module, one-piece |
| Number of positions | 1 |
| No. of channels | 1 |
| Insulation characteristics | |
| Degree of pollution | 2 |

Electrical properties

| Fuse type | Automatic device |
|------------------------------------|---------------------------|
| 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 | 2 A |
| Rated surge voltage | 0.5 kV |
| Tripping method | E (electronic) |
| Required backup fuse | not required, integrated failsafe element |
| Dielectric strength | max. 32 V DC (Load circuit) |
| Switch off | Typ. 1.8 x I _N |
| Active current limitation | active |
| Fuse | electronic |
| Closed-circuit current range I0 | typ. 25 mA ±5 mA (When switched on) |
| MTBF (IEC 61709, SN 29500) | 7430000 h (at 25 °C with 80 % load) |
| | 6590000 h (at 40 °C with 80 % load) |
| Voltage drop | 130 mV (at I _N) |

Load circuit

| Max. capacitive load | 20000 μF |
|----------------------|----------|
| | |

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 |
| dicator/remote signaling | |
| Connection name | Auxiliary contact |
| Switching function | N/C contact |
| nnection data | |
| Nominal cross section | 16.00 mm² |
| ne+ / LOAD+ /0V | |
| Screw thread | M4 |
| Tightening torque | 1.2 Nm |
| Stripping length | 10 mm |
| Conductor cross section rigid | 0.5 mm ² 16 mm ² |
| Cross section AWG | 20 6 (converted acc. to IEC) |
| Conductor cross section flexible | 0.5 mm² 16 mm² |
| Conductor cross section, flexible [AWG] | 20 6 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² 10 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.5 mm² 10 mm² |
| 2 conductors with same cross section, solid | 0.5 mm² 4 mm² |
| 2 conductors with the same cross-section AWG rigid | 20 12 (converted acc. to IEC) |
| 2 conductors with same cross section, flexible | 0.5 mm² 4 mm² |
| 2 conductors with the same cross-section AWG flexible | 20 12 (converted acc. to IEC) |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm² 2.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² 6 mm² |
| Nominal cross section | 16 mm² |
| uxiliary contact | |
| Screw thread | M3 |
| Tightening torque | 0.5 Nm |
| Stripping length | 8 mm |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² 2.5 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.25 mm² 2.5 mm² |
| ne+/LOAD+/0V | |
| Connection method | Screw connection |
| Screw thread | M4 |
| Tightening torque | 1.2 Nm |
| Stripping length | 10 mm |
| , | |



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| Conductor cross section rigid | 0.5 mm² 16 mm² |
|---|--|
| Conductor cross section AWG | 20 6 |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.5 mm² 10 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.5 mm ² 10 mm ² |

Auxiliary contact

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| Connection method | Screw connection |
|---|------------------|
| Screw thread | M3 |
| Tightening torque | 0.5 Nm |
| Stripping length | 8 mm |
| Conductor cross section AWG | 24 14 |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² 2.5 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm² 2.5 mm² |

Dimensions

| Width | 12.5 mm |
|------------------|---------|
| Height | 83 mm |
| Height NS 35/15 | 90.5 mm |
| Height NS 35/7,5 | 83 mm |
| Depth | 80 mm |

Material specifications

| Color | black (RAL 9005) |
|--|------------------|
| Flammability rating according to UL 94 | V0 |

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP20 (Housing) |
|---|-----------------------------|
| 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 |

Standards and regulations

| Standards/specifications | UL 508 |
|--------------------------|----------|
| Standards/specifications | CSA 22.2 |
| Note | No. 14 |
| Standards/specifications | UL 2367 |
| Standards/specifications | CSA 22.2 |
| Note | No. 142 |
| Standards/specifications | CSA 22.2 |
| Note | No. 213 |
| Standards/specifications | UL 1604 |



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Mounting

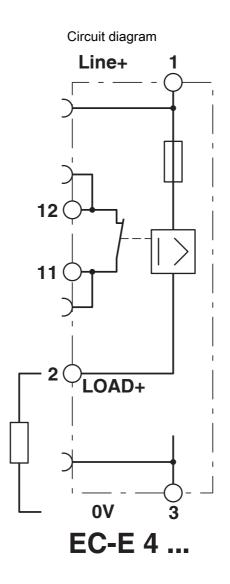
| Mounting type | DIN rail: 35 mm |
|---------------|-----------------|
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Drawings





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Approvals

🎨 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/0903033



UL Recognized

Approval ID: FILE E 317172



DNV GL

Approval ID: TAE00002HC



UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324



UL Recognized

Approval ID: FILE E 324415



CSA

Approval ID: 2840117

cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

| 27140401 |
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| 27140401 |
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| EC003538 |
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39121400



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Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes |
|---|---|
| Exemption | 6(c), 7(a), 7(c)-l |
| China RoHS | |
| Environment 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: 7439-92-1) |
| SCIP | cd7d2aa4-1335-419b-b71d-9b2f9c873bf1 |
| | |

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