

1441495

https://www.phoenixcontact.com/au/products/1441495

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Single-channel, electronic device protection for 12-24 V DC loads. Nominal current adjustable from 0.1-0.63 A. With remote signaling and active current limitation. Can be combined with CLIPLINE terminal blocks. For installation on DIN rails.

Your advantages

- · Precise fault localization and fast recovery thanks to status message and local and remote reset options
- · Effortless system planning with precise shutdown, low voltage losses, and adjustable current values
- · More space in the control cabinet due to integrated potential distribution of positive and negative in 6 mm
- · Simple application setup due to bridging option to CLIPLINE complete terminal block system

Commercial data

| Item number | 1441495 |
|--------------------------------------|---------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CLA135 |
| Product key | CLA135 |
| GTIN | 4063151823214 |
| Weight per piece (including packing) | 32.08 g |
| Weight per piece (excluding packing) | 25.81 g |
| Customs tariff number | 85363010 |
| Country of origin | DE |



1441495

https://www.phoenixcontact.com/au/products/1441495

Technical data

Notes

General

| Note | Connection for signal line tested in accordance with EN 61000-4-4 with 1 kV; if necessary, customer must provide appropriate protective measures |
|------|--|
| | Repeated hard short circuits can reduce the melting integral of the integrated backup fuse. |

Product properties

| Product type | Device circuit breakers |
|----------------------------|----------------------------|
| Product family | PTCB |
| Туре | DIN rail module, one-piece |
| Number of positions | 1 |
| No. of channels | 1 |
| Insulation characteristics | |

| Protection class | III |
|------------------|-----|
| Pollution degree | 2 |

Electrical properties

General

| Operating voltage | 10 V DC 30 V DC |
|---------------------------------------|--|
| Rated voltage | 12 V DC |
| | 24 V DC |
| Rated current I _N | 15 A DC (Total current input) |
| | 0.5 A DC (Rated current output) |
| Rated current I _N | 0.1 / 0.2 / 0.315 / 0.4 / 0.5 / 0.63 A DC (adjustable) |
| Rated current (pre-adjusted) | 0.5 A |
| Rated surge voltage | 0.5 kV |
| Tripping method | E (electronic) |
| Feedback resistance | max. 35 V DC |
| Required backup fuse | Only required if I _{max} of the power supply > the short-circuit switching capacity. Integrated failsafe element. |
| Short-circuit switching capacity | 300 A |
| Dielectric strength | max. 35 V DC (Load circuit) |
| Active current limitation | \leq 1,2 x I _N , depending on the current setting |
| Fuse | electronic |
| Efficiency | > 98.5 % |
| Closed circuit current I ₀ | typ. 5 mA |
| Power dissipation | typ. 0.1 W (No-load operation) |
| | < 0.7 W (Nominal operation) |
| Module initialization time | 40 ms |



1441495

https://www.phoenixcontact.com/au/products/1441495

| Waiting time after switch off of a channel | 5 s (at overload / short circuit) |
|--|---|
| Measuring tolerance I | ± 17 % (Depending on the nominal current setting) |
| Temperature derating | 15 A (Total current at 60°C) |
| | 20 A (Total current at 50°C) |
| MTBF (IEC 61709, SN 29500) | 28409090 h (at 25 °C with 21 % load) |
| | 11519410 h (at 40°C with 34.25% load) |
| | 1577983 h (at 60°C with 100% load) |
| Voltage drop | ≤ 0.35 V (Depending on the nominal current setting) |
| Fail-safe element | 4 A DC |
| Contact switching type | without electrical isolation |
| ad circuit | |
| Shutdown time | ≤ 600 ms |
| | ≥ 12 ms (Depending on the current setting and the available load) |
| | Shutdown ≤ 1.2 x I _N , depending on the nominal current setting |
| Undervoltage switch-off | ≤ 9.2 V DC (active) |
| | ≥ 10.2 V DC (inactive) |
| Overvoltage switch-off | ≥ 30.5 V DC (active) |
| | ≤ 29.5 V DC (inactive) |
| Max. capacitive load | 4.7 mF (Depending on the current setting and the short-circuit current available) |
| dicator/remote signaling | |
| Connection name | Remote indication circuit |
| Switching function | N/O contact |
| Operating voltage | 0 V DC 30 V DC |
| Operating current | 100 mA DC |

Connection data

Main circuit IN+

| Connection method | Push-in connection |
|---|---|
| Stripping length | 8 mm |
| Conductor cross section flexible | 0.2 mm ² 2.5 mm ² |
| Conductor cross section rigid | 0.2 mm² 4 mm² |
| Conductor cross section AWG | 24 12 |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.2 mm² 2.5 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.2 mm² 2.5 mm² |

Main circuit IN-

| Connection method | Push-in connection |
|----------------------------------|--------------------|
| Stripping length | 8 mm |
| Conductor cross section flexible | 0.2 mm² 2.5 mm² |
| Conductor cross section rigid | 0.2 mm² 4 mm² |
| Conductor cross section AWG | 24 12 |



1441495

https://www.phoenixcontact.com/au/products/1441495

| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.2 mm² 2.5 mm² |
|---|---|
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.2 mm² 2.5 mm² |
| Main circuit OUT | |
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross section flexible | 0.2 mm ² 2.5 mm ² |
| Conductor cross section rigid | 0.2 mm ² 4 mm ² |
| Conductor cross section AWG | 24 12 |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.2 mm ² 2.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.2 mm² 2.5 mm² |
| Remote indication circuit | |
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross section flexible | 0.2 mm ² 2.5 mm ² |
| Conductor cross section rigid | 0.2 mm ² 4 mm ² |
| Conductor cross section AWG | 24 14 |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.2 mm² 2.5 mm² |
| Conductor cross section flexible, with ferrule without plastic | 0.2 mm² 2.5 mm² |

Signaling

sleeve

| Channel LED off | off (Channel switched off) |
|--------------------|--|
| Channel LED yellow | flashing (Programming mode active) |
| Channel LED green | lit (Channel switched on) |
| Channel LED red | lit (Channel switched off, over- or undervoltage active) |
| | ON temporarily (Channel switched off, 5 s cool-down phase, overload or short-circuit release) |
| | flashing (Channel switched off, ready to be switched back on, overload or short-circuit release) |
| | flashing quickly (Channel switched off, external voltage at the output, possible installation error) |

Dimensions

| Dimensional drawing | 988 |
|---------------------|---------------------------------|
| Width | 6.2 mm |
| Height | 105.8 mm |
| Depth | 55.6 mm (incl. DIN rail 7.5 mm) |

Material specifications



1441495

https://www.phoenixcontact.com/au/products/1441495

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

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP20 |
|---|---|
| Ambient temperature (operation) | -30 °C 60 °C |
| Ambient temperature (storage/transport) | -40 °C 70 °C |
| Altitude | ≤ 3000 m up to 52 °C (amsl) |
| | ≤ 4000 m up to 46 °C (amsl) |
| Humidity test | 96 h, 95 % RH, 40 °C |
| Shock (operation) | 30g (IEC 60068-2-27, Test Ea) |
| Vibration (operation) | 10 Hz 59.6 Hz (Amplitude ±0.35 mm; in accordance with IEC 60068-2-6, Test Fc) |
| | 59.6 Hz 150 Hz (Acceleration 5g; in accordance with IEC 60068-2-6, Test Fc) |
| | 5 Hz 100 Hz (Resonance search 4g; resonance frequency 4g; 90 min in accordance with DNV GL Class B) |

Approvals

UL approval

| • • | |
|-------------------------------|---|
| Identification | UL/C-UL Listed UL 508 |
| | UL Recognized UL 2367 |
| | NEC Class 2 according to UL 1310 |
| | UL/C-UL Listed ANSI/UL 121201 Class I, Division 2, Groups A, B, C, D (Hazardous Location) |
| DNV GL | |
| Identification | Shipbuilding approval |
| Corrosive gas test | |
| Identification | ISA S71.04.2013 G3 Harsh Group A |
| | |
| Shipbuilding data | |
| Shipbuilding data Temperature | A |
| | A B |
| Temperature | |

Standards and regulations

Enclosure

| Standards/specifications | EN 61000-6-2 |
|--------------------------|-------------------------------------|
| Note | EMC – Immunity for industrial areas |
| Standards/specifications | EN 61000-6-3 |

Α



1441495

https://www.phoenixcontact.com/au/products/1441495

| Note | EMC – Emission for residential, business and commercial properties and small operations |
|--------------------------|---|
| Standards/specifications | EN 60068-2-78 |
| Note | Environmental influences – Moisture and heat, constant |
| Standards/specifications | EN 50178 |
| Note | Equipping power installations with electronic equipment |
| Standards/specifications | EN 60068-2-6 |
| Note | Environmental influences – Vibrations (sinusoidal) |
| Standards/specifications | EN 60068-2-27 |
| Note | Environmental influences – Shocks |
| Standards/specifications | EN 60068-2-30 |
| Note | Environmental influences – Part 2–30: Tests – Test Db: Damp heat, cyclical |

Mounting

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

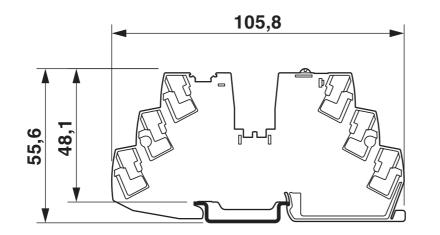


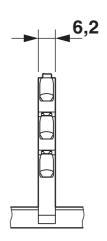
1441495

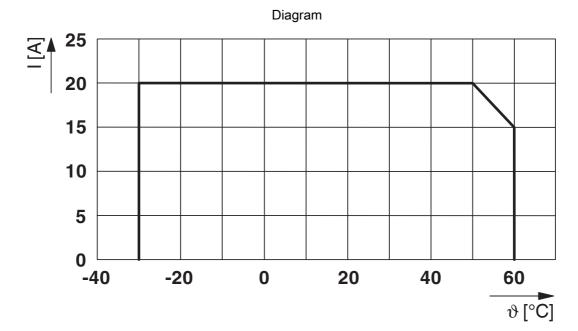
https://www.phoenixcontact.com/au/products/1441495

Drawings

Dimensional drawing







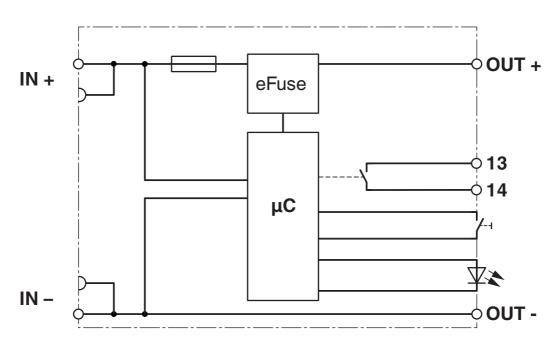
Total current input



1441495

https://www.phoenixcontact.com/au/products/1441495

Block diagram





1441495

https://www.phoenixcontact.com/au/products/1441495

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/1441495



UL Recognized

Approval ID: E317172-20170817



UL Listed

Approval ID: E123528-20170530



cUL Listed

Approval ID: E123528-20170530



DNV GL

Approval ID: TAE00003UT



UL Recognized

Approval ID: E324415-20201030



cUL Listed

Approval ID: E483407-20201030



UL Listed

Approval ID: E483407-20201030



1441495

https://www.phoenixcontact.com/au/products/1441495

Classifications

ETIM 9.0

ECLASS

| | ECLASS-13.0 | 27140401 |
|----|-------------|----------|
| | ECLASS-15.0 | 27140401 |
| ET | TIM | |

EC003538



1441495

https://www.phoenixcontact.com/au/products/1441495

Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes |
|---|---|
| Exemption | 7(a), 7(c)-l |
| 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) |
| SCIP | 928adc82-8101-403f-84df-3a34f62669d6 |
| EF3.0 Climate Change | |
| CO2e kg | 1.27 kg CO2e |
| | |

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au