# Electronic circuit breaker - PTCB E1 24DC/1A NO

2909902

https://www.phoenixcontact.com/us/products/2909902

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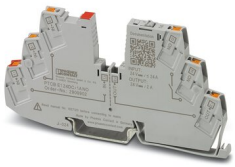


1-channel, electronic circuit breaker for protecting loads at 24 V DC against overload and short circuit. Easy potential distribution with components from the CLIPLINE complete terminal block system. With fixed nominal current. For installation on DIN rails.

## Your advantages

- Simple application setup due to bridging option to CLIPLINE complete terminal block system
- More space in the control cabinet: narrowest protection on just 6 mm width
- Individual setup for suitable protection, exactly according to your requirements
- Optimum protection for cables and sensors as well as NEC Class 2 circuits by means of an additional internal output fuse

## Commercial Data

| | |
|---|---|
| Item number | 2909902 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to Order (non-returnable) |
| Sales Key | C32 |
| Product Key | CLA135 |
| Catalog Page | Page 378 (C-4-2019) |
| GTIN | 4055626408705 |
| Weight per Piece (including packing) | 44 g |
| Weight per Piece (excluding packing) | 27.64 g |
| Customs tariff number | 85363010 |
| Country of origin | DE |

# Technical Data

## Notes

### General

| | |
|---|---|
| Note | EN 50121-3-2: Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock – Apparatus |
| | 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

| | |
|---|---|
| Type | DIN rail module, one-piece |
| Product type | Device circuit breakers |
| Number of positions | 1 |
| No. of channels | 1 |

### Insulation characteristics

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

## Electrical properties

| | |
|---|---|
| No. of channels | 1 |

### General

| | |
|---|---|
| Operating voltage | 18 V DC ... 30 V DC |
| Rated voltage | 24 V DC |
| Rated current $I_N$ | 24 A DC (Total current input) |
| | 1 A DC (Rated current output) |
| Rated current (pre-adjusted) | 1 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) |
| Fuse | electronic |
| Efficiency | > 99 % |
| Closed circuit current $I_0$ | typ. 12 mA |
| Power dissipation | typ. 0.3 W (No-load operation) |
| | < 0.8 W (Nominal operation) |
| Module initialization time | 1 s |
| Waiting time after switch off of a channel | 5 s (at overload / short circuit) |

| | |
|---|---|
| Measuring tolerance I | ± 15 % |
| Temperature derating | 21 A (Total current at 60°C) |
| | 24 A (Total current at 50°C) |
| | 1 A (Channel current at 60°C) |
| | 1 A (Channel current at 50°C) |
| MTBF (IEC 61709, SN 29500) | 28571428 h (at 25 °C with 21 % load) |
| | 14084507 h (at 40°C with 34.25% load) |
| | 2053388 h (at 60°C with 100% load) |
| Voltage drop | 0.06 V (at 2 A) |
| Fail-safe element | 4 A DC |

Load circuit

| | |
|---|---|
| Shutdown time | ≤ 10 ms (for short circuit > 2.0 x $I_N$) |
| | 1 s (1.2 ... 2.0 x $I_N$) |
| Undervoltage switch-off | ≤ 17.8 V DC (active) |
| | ≥ 18.8 V DC (inactive) |
| Overvoltage switch-off | ≥ 30.5 V DC (active) |
| | ≤ 29.5 V DC (inactive) |
| Max. capacitive load | 15000 µF (Depending on the available short-circuit current) |

Indicator/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 mm² ... 2.5 mm² |
| Conductor cross section solid | 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 solid | 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 | 0.2 mm² ... 2.5 mm² |

| | |
|---|---|
| sleeve | |

Main circuit OUT

| | |
|---|---|
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section solid | 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 |

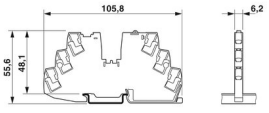
Remote indication circuit

| | |
|---|---|
| Connection method | Push-in connection |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section solid | 0.2 mm² ... 4 mm² |
| 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 sleeve | 0.2 mm² ... 2.5 mm² |

## LED signaling

| | |
|---|---|
| Channel LED off | off (Channel switched off) |
| Channel LED yellow | lit (Channel switched on, channel load > 80% ) |
| | 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 |  |
| Width | 6.2 mm |
| Height | 105.8 mm |
| Depth | 55.6 mm (incl. DIN rail 7.5 mm) |

## Material specifications

| | |
|---|---|
| Color | traffic grey A RAL 7042 |
| Material | PBT (Housing) |

| | |
|---|---|
| | PBT (Pusher) |
| 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 (above mean sea level)) |
| | ≤ 4000 m up to 46 °C (amsl (above mean sea level)) |
| 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) |

## Approval data

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; T4 (Hazardous Location) |

Shipbuilding approval

| | |
|---|---|
| Identification | DNV GL |

DNV GL data

| | |
|---|---|
| Temperature | D |
| Humidity | B |
| Vibration | B |
| EMC | B |
| Enclosure | A |

## Standards and regulations

| | |
|---|---|
| Standards/specifications | EN 61000-6-2 |
| Standards/specifications | EN 61000-6-3 |
| Standards/specifications | EN 60068-2-78 |
| Standards/specifications | EN 50178 |
| Standards/specifications | EN 60068-2-6 |
| Standards/specifications | EN 60068-2-27 |
| Standards/specifications | EN 60068-2-30 |

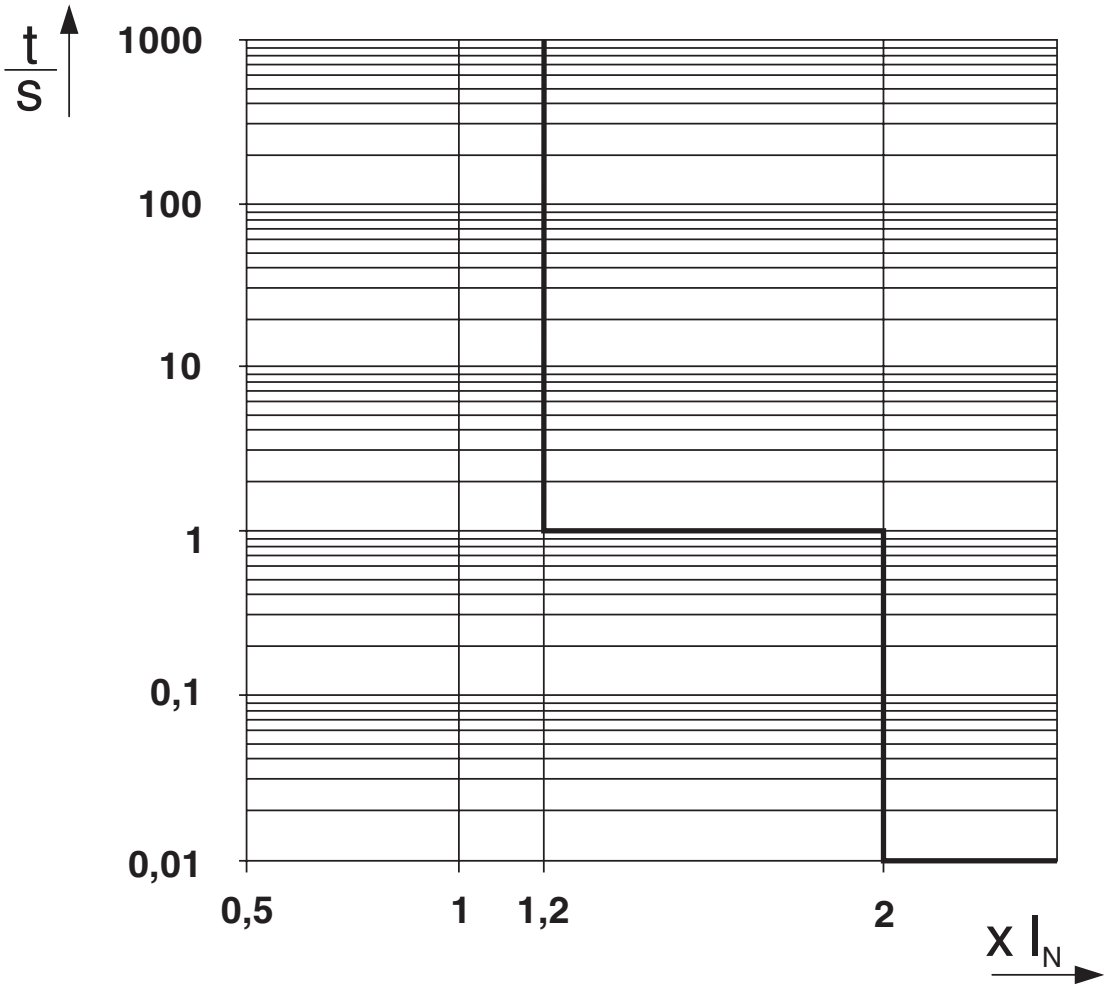
| | |
|---|---|
| Standards/specifications | EN 61373 |
| Standards/specifications | EN 45545-2 |

## Mounting

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

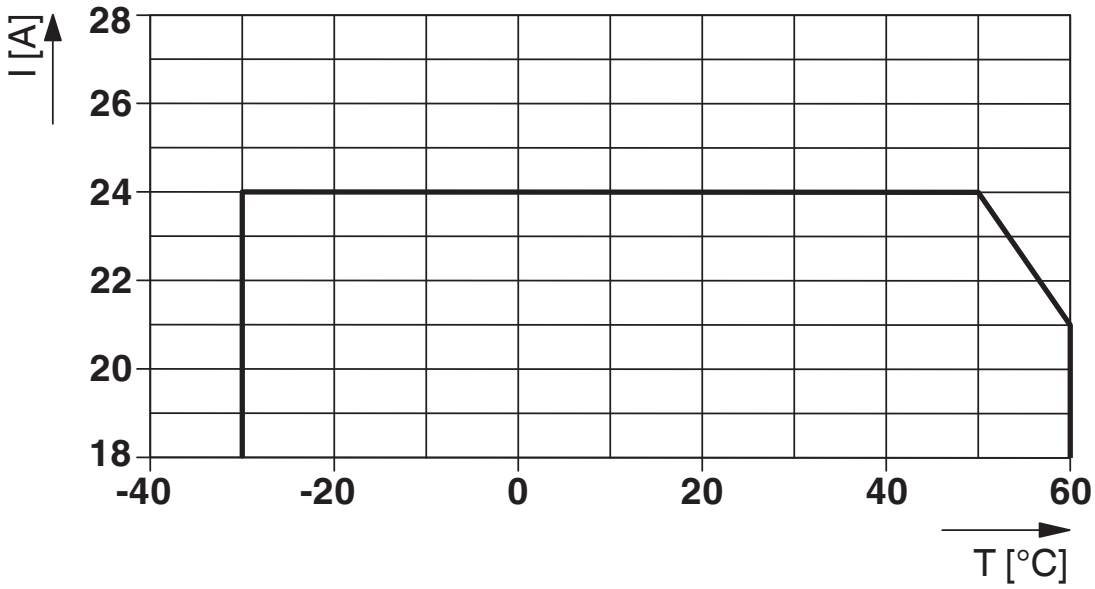
## Drawings

Diagram



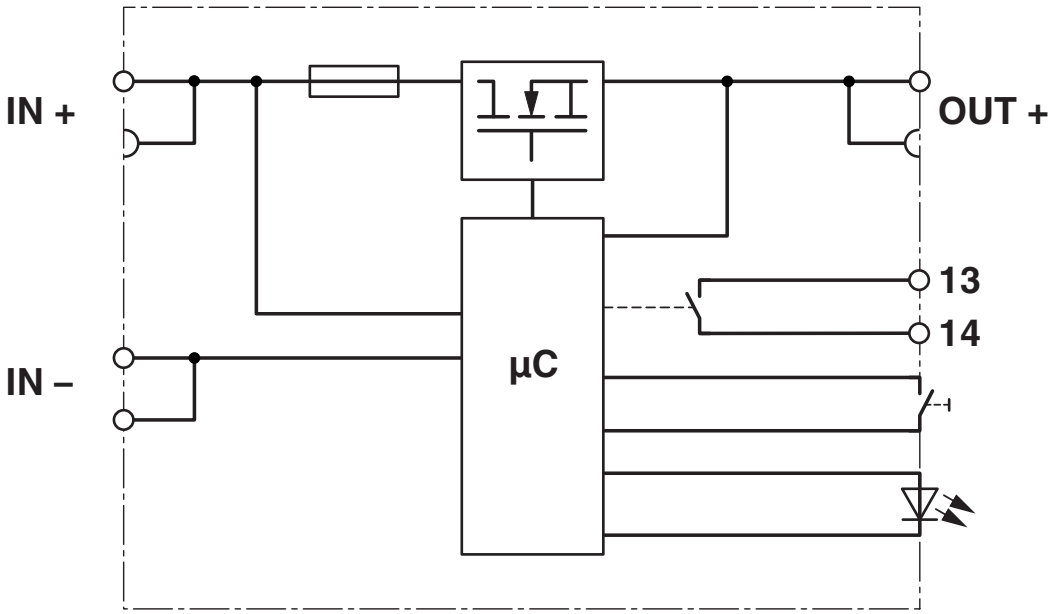

Trigger characteristic in the DC range

Diagram

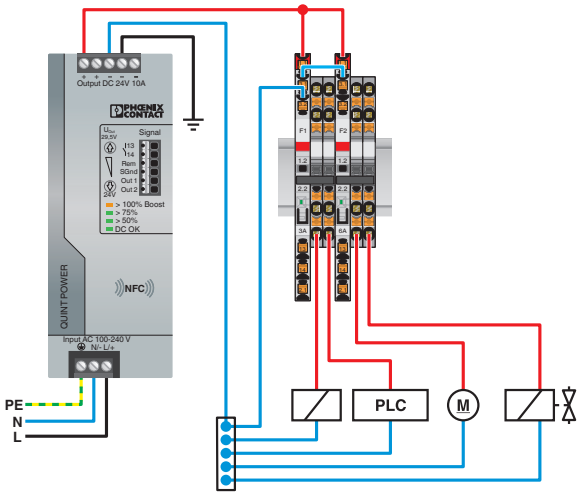



Total current input

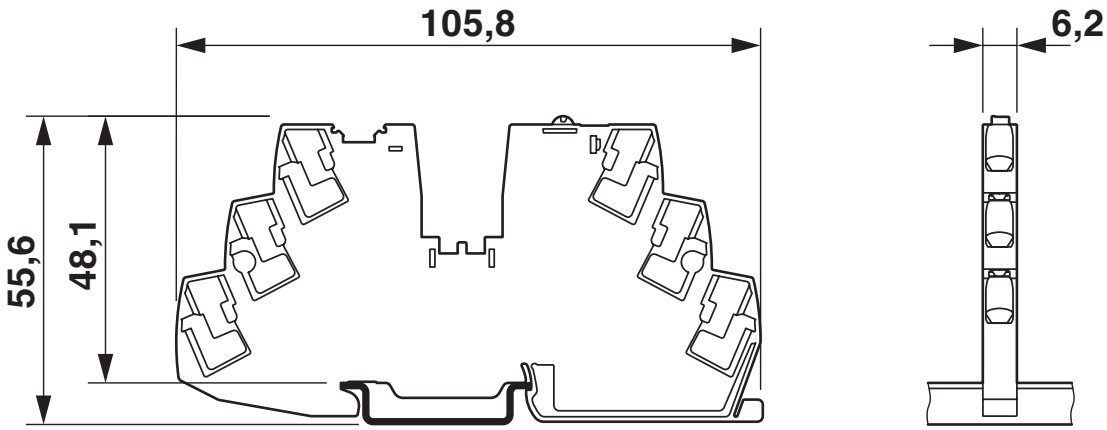
Block diagram



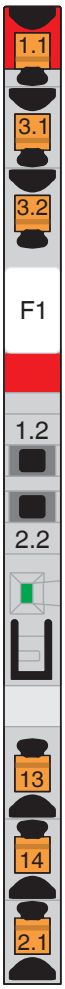
## Application drawing



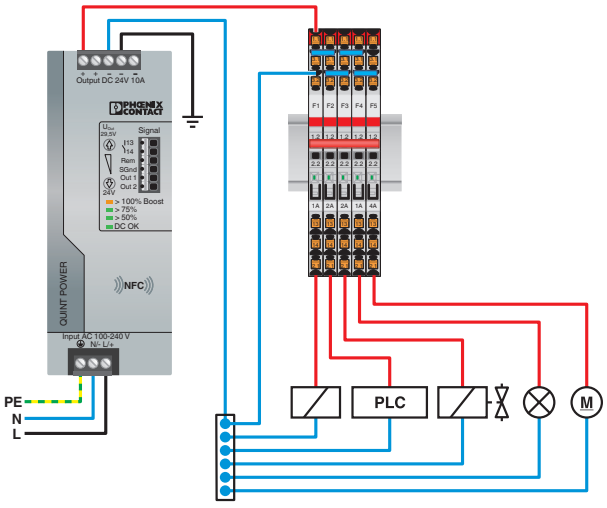

## Dimensional drawing



Product drawing




Application drawing



## Approvals

**UL Recognized**
Approval ID: FILE E 317172

**DNV GL**
Approval ID: TAE00003UT

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| | | | - | - |

**UL Listed**
Approval ID: FILE E 123528

**cUL Listed**
Approval ID: FILE E 123528

**UL Recognized**
Approval ID: FILE E 324415

**cUL Listed**
Approval ID: FILE E 483407

**UL Listed**
Approval ID: FILE E 483407

**cULus Listed**

**cULus Listed**

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-9.0 | 27141116 |
| ECLASS-10.0.1 | 27140401 |
| ECLASS-11.0 | 27140401 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC003538 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental Product Compliance

| | |
|---|---|
| REACh SVHC | Lead 7439-92-1 |

| | |
|---|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer’s declaration available under “Downloads” |

## Accessories

Note: Applying some accessories below might limit this product.

### Plug-in bridge

Plug-in bridge - FBS 2-6 - 3030336

https://www.phoenixcontact.com/us/products/3030336



Plug-in bridge, pitch: 6.2 mm, color: red

Max. current carrying capacity: 32 A

### Plug-in bridge

Plug-in bridge - FBS 3-6 - 3030242

https://www.phoenixcontact.com/us/products/3030242



Plug-in bridge, pitch: 6.2 mm, color: red

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 4-6 - 3030255

https://www.phoenixcontact.com/us/products/3030255



Plug-in bridge, pitch: 6.2 mm, color: red

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 5-6 - 3030349

https://www.phoenixcontact.com/us/products/3030349



Plug-in bridge, pitch: 6.2 mm, color: red

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 10-6 - 3030271

https://www.phoenixcontact.com/us/products/3030271



Plug-in bridge, pitch: 6.2 mm, color: red

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 20-6 - 3030365

https://www.phoenixcontact.com/us/products/3030365



Plug-in bridge, pitch: 6.2 mm, color: red

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 50-6 - 3032224

https://www.phoenixcontact.com/us/products/3032224



Plug-in bridge, pitch: 6.2 mm, color: red

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS  2-6 BU - 3036932

https://www.phoenixcontact.com/us/products/3036932



Plug-in bridge, pitch: 6.2 mm, color: blue

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 3-6 BU - 3036945

https://www.phoenixcontact.com/us/products/3036945



Plug-in bridge, pitch: 6.2 mm, color: blue

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 4-6 BU - 3036958

https://www.phoenixcontact.com/us/products/3036958



Plug-in bridge, pitch: 6.2 mm, color: blue

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS  5-6 BU - 3036961

https://www.phoenixcontact.com/us/products/3036961



Plug-in bridge, pitch: 6.2 mm, color: blue

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 10-6 BU - 3032198

https://www.phoenixcontact.com/us/products/3032198



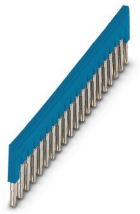
Plug-in bridge, pitch: 6.2 mm, color: blue

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 20-6 BU - 3032208

https://www.phoenixcontact.com/us/products/3032208



Plug-in bridge, pitch: 6.2 mm, color: blue

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 50-6 BU - 3032211

https://www.phoenixcontact.com/us/products/3032211



Plug-in bridge, pitch: 6.2 mm, color: blue

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 2-6 GY - 3032237

https://www.phoenixcontact.com/us/products/3032237



Plug-in bridge, pitch: 6.2 mm, color: gray

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 3-6 GY - 3032240

https://www.phoenixcontact.com/us/products/3032240



Plug-in bridge, pitch: 6.2 mm, color: gray

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 4-6 GY - 3032279

https://www.phoenixcontact.com/us/products/3032279



Plug-in bridge, pitch: 6.2 mm, color: gray

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 5-6 GY - 3032266

https://www.phoenixcontact.com/us/products/3032266



Plug-in bridge, pitch: 6.2 mm, color: gray

Max. current carrying capacity: 32 A

## Plug-in bridge

Plug-in bridge - FBS 2-5 - 3030161

https://www.phoenixcontact.com/us/products/3030161



Plug-in bridge, pitch: 5.2 mm, color: red

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 3-5 - 3030174

https://www.phoenixcontact.com/us/products/3030174



Plug-in bridge, pitch: 5.2 mm, color: red

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 4-5 - 3030187

https://www.phoenixcontact.com/us/products/3030187



Plug-in bridge, pitch: 5.2 mm, color: red

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 5-5 - 3030190

https://www.phoenixcontact.com/us/products/3030190



Plug-in bridge, pitch: 5.2 mm, color: red

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 10-5 - 3030213

https://www.phoenixcontact.com/us/products/3030213



Plug-in bridge, pitch: 5.2 mm, color: red

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 20-5 - 3030226

https://www.phoenixcontact.com/us/products/3030226



Plug-in bridge, pitch: 5.2 mm, color: red

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 50-5 - 3038930

https://www.phoenixcontact.com/us/products/3038930



Plug-in bridge, pitch: 5.2 mm, color: red

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS  2-5 BU - 3036877

https://www.phoenixcontact.com/us/products/3036877



Plug-in bridge, pitch: 5.2 mm, color: blue

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 3-5 BU - 3036880

https://www.phoenixcontact.com/us/products/3036880



Plug-in bridge, pitch: 5.2 mm, color: blue

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 4-5 BU - 3036893

https://www.phoenixcontact.com/us/products/3036893



Plug-in bridge, pitch: 5.2 mm, color: blue

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS  5-5 BU - 3036903

https://www.phoenixcontact.com/us/products/3036903



Plug-in bridge, pitch: 5.2 mm, color: blue

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 10-5 BU - 3036916

https://www.phoenixcontact.com/us/products/3036916



Plug-in bridge, pitch: 5.2 mm, color: blue

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 20-5 BU - 3036929

https://www.phoenixcontact.com/us/products/3036929



Plug-in bridge, pitch: 5.2 mm, color: blue

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 50-5 BU - 3032114

https://www.phoenixcontact.com/us/products/3032114



Plug-in bridge, Version with single- or double-sided cutting edge. Please keep in mind the possible impact on touch protection
as well as air clearances and creepage distances., pitch: 5.2 mm, color: blue

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 2-5 GY - 3038969

https://www.phoenixcontact.com/us/products/3038969



Plug-in bridge, pitch: 5.2 mm, color: gray

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 3-5 GY - 3038972

https://www.phoenixcontact.com/us/products/3038972



Plug-in bridge, pitch: 5.2 mm, color: gray

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 4-5 GY - 3038985

https://www.phoenixcontact.com/us/products/3038985



Plug-in bridge, pitch: 5.2 mm, color: gray

Max. current carrying capacity: 24 A

## Plug-in bridge

Plug-in bridge - FBS 5-5 GY - 3038998

https://www.phoenixcontact.com/us/products/3038998



Plug-in bridge, pitch: 5.2 mm, color: gray

Max. current carrying capacity: 24 A

## Reducing bridge

Reducing bridge - RB ST 10-(2,5/4) - 3030873

https://www.phoenixcontact.com/us/products/3030873

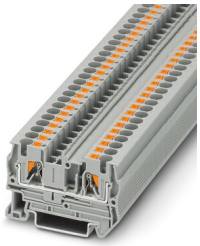


Reducing bridge, pitch: 10 mm, color: red

## Feed-through terminal block

Feed-through terminal block - PT 4 - 3211757

https://www.phoenixcontact.com/us/products/3211757



Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in connection, Rated cross section: 4 $mm^2$, cross section: 0.2 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - PT 4-TWIN - 3211771

https://www.phoenixcontact.com/us/products/3211771



Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in connection, Rated cross section: 4 $mm^2$, cross section: 0.2 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - PT 4-QUATTRO - 3211797

https://www.phoenixcontact.com/us/products/3211797

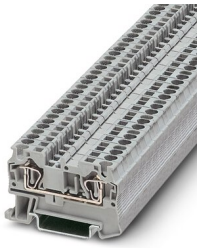


Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in connection, Rated cross section: 4 $mm^2$, cross section: 0.2 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - ST 4 - 3031364

https://www.phoenixcontact.com/us/products/3031364



Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Spring-cage connection, 1 level, Rated cross section: 4 $mm^2$, cross section: 0.08 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - ST 4-TWIN - 3031393

https://www.phoenixcontact.com/us/products/3031393



Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Spring-cage connection, Rated cross section: 4 $mm^2$, cross section: 0.08 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - ST 4-QUATTRO - 3031445

https://www.phoenixcontact.com/us/products/3031445

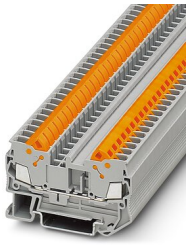


Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Spring-cage connection, 1 level, Rated cross section: 4 $mm^2$, cross section: 0.08 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - QTC 2,5 - 3206416

https://www.phoenixcontact.com/us/products/3206416

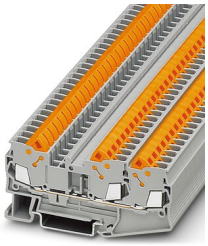


Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Quick connection, 1 level, Rated cross section: 2.5 $mm^2$, cross section: 0.5 $mm^2$ - 2.5 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - QTC 2,5-TWIN - 3206445

https://www.phoenixcontact.com/us/products/3206445



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Quick connection, 1 level, Rated cross section: 2.5 $mm^2$, cross section: 0.5 $mm^2$ - 2.5 $mm^2$, mounting type: NS 35/7,5, NS 35/7,5, color: gray

## Feed-through terminal block

Feed-through terminal block - QTC 2,5-QUATTRO - 3206446

https://www.phoenixcontact.com/us/products/3206446



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Quick connection, 1 level, Rated cross section: 2.5 $mm^2$, cross section: 0.5 $mm^2$ - 2.5 $mm^2$, mounting type: NS 35/7,5, NS 35/7,5, color: gray

## Feed-through terminal block

Feed-through terminal block - PT 2,5 - 3209510

https://www.phoenixcontact.com/us/products/3209510

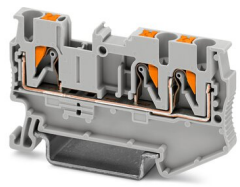


Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Push-in connection, Rated cross section: 2.5 $mm^2$, cross section: 0.14 $mm^2$ - 4 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - PT 2,5-TWIN - 3209549

https://www.phoenixcontact.com/us/products/3209549

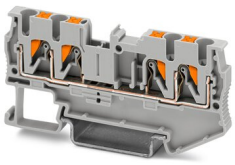


Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Push-in connection, Rated cross section: 2.5 $mm^2$, cross section: 0.14 $mm^2$ - 4 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - PT 2,5-QUATTRO - 3209578

https://www.phoenixcontact.com/us/products/3209578

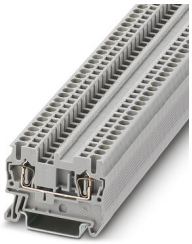


Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Push-in connection, Rated cross section: 2.5 $mm^2$, cross section: 0.14 $mm^2$ - 4 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - ST 2,5 - 3031212

https://www.phoenixcontact.com/us/products/3031212

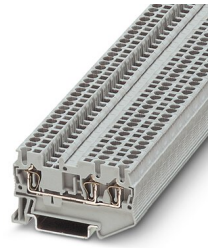


Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Spring-cage connection, Rated cross section: 2.5 $mm^2$, cross section: 0.08 $mm^2$ - 4 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - ST 2,5-TWIN - 3031241

https://www.phoenixcontact.com/us/products/3031241

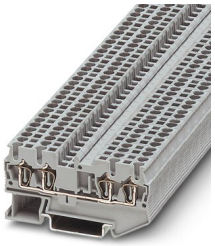


Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Spring-cage connection, Rated cross section: 2.5 $mm^2$, cross section: 0.08 $mm^2$ - 4 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - ST 2,5-QUATTRO - 3031306

https://www.phoenixcontact.com/us/products/3031306

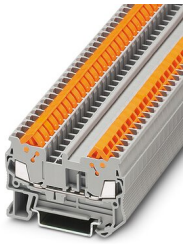


Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Spring-cage connection, Rated cross section: 2.5 $mm^2$, cross section: 0.08 $mm^2$ - 4 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - QTC 1,5 - 3205019

https://www.phoenixcontact.com/us/products/3205019

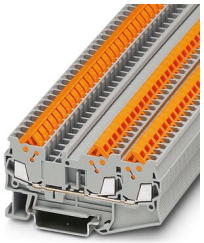


Feed-through terminal block, nom. voltage: 800 V, nominal current: 17.5 A, connection method: Quick connection, 1 level, Rated cross section: 1.5 $mm^2$, cross section: 0.25 $mm^2$ - 1.5 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - QTC 1,5-TWIN - 3205048

https://www.phoenixcontact.com/us/products/3205048



Feed-through terminal block, nom. voltage: 800 V, nominal current: 17.5 A, connection method: Quick connection, 1 level, Rated cross section: 1.5 $mm^2$, cross section: 0.25 $mm^2$ - 1.5 $mm^2$, mounting type: NS 35/7,5, NS 35/7,5, color: gray

## Feed-through terminal block

Feed-through terminal block - QTC 1,5-QUATTRO - 3205077

https://www.phoenixcontact.com/us/products/3205077

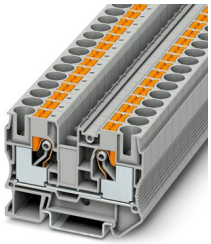


Feed-through terminal block, nom. voltage: 800 V, nominal current: 17.5 A, connection method: Quick connection, 1 level, Rated cross section: 1.5 $mm^2$, cross section: 0.25 $mm^2$ - 1.5 $mm^2$, mounting type: NS 35/7,5, NS 35/7,5, color: gray

## Feed-through terminal block

Feed-through terminal block - PT 10 - 3212120

https://www.phoenixcontact.com/us/products/3212120



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, connection method: Push-in connection, Rated cross section: 10 $mm^2$, cross section: 0.5 $mm^2$ - 16 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Feed-through terminal block

Feed-through terminal block - ST 10 - 3036110

https://www.phoenixcontact.com/us/products/3036110



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, connection method: Spring-cage connection, Rated cross section: 10 $mm^2$, cross section: 0.2 $mm^2$ - 16 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Zack marker strip

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003

https://www.phoenixcontact.com/us/products/1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710

https://www.phoenixcontact.com/us/products/0808710



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

## Marker for terminal blocks

Marker for terminal blocks - UCT-TM 6 - 0828736

https://www.phoenixcontact.com/us/products/0828736



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

## Marker for terminal blocks

Marker for terminal blocks - UCT-TM 6 CUS - 0829602

https://www.phoenixcontact.com/us/products/0829602



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

## Marker for terminal blocks

Marker for terminal blocks - US-TML (104X3,8) - 0830768

https://www.phoenixcontact.com/us/products/0830768



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 3.8 mm, Number of individual labels: 22

## Type 3 surge protection device

Type 3 surge protection device - TTC-6P-T3-24DC-PT-I - 1027586

https://www.phoenixcontact.com/us/products/1027586



Type 3 surge protection, consisting of protective plug and base element, with integrated status indicator for 24 V DC power supplies

## Wire bridge

Wire bridge - DB 50- 90 BK - 2820916

https://www.phoenixcontact.com/us/products/2820916

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 $mm^2$, loop length: 90 mm, ferrule length: 8 mm, color: black



## Wire bridge

Wire bridge - DB 50- 90 BU - 2821180

https://www.phoenixcontact.com/us/products/2821180

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 $mm^2$, loop length: 90 mm, ferrule length: 8 mm, color: blue



## Wire bridge

Wire bridge - DB 50- 90 GY - 2820929

https://www.phoenixcontact.com/us/products/2820929

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 $mm^2$, loop length: 90 mm, ferrule length: 8 mm, color: gray



## Wire bridge

Wire bridge - DB 50- 90 RD - 2864639

https://www.phoenixcontact.com/us/products/2864639

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 $mm^2$, loop length: 90 mm, ferrule length: 8 mm, color: red

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