

# Electronic circuit breaker - PTCB E1 24DC/6A NO



2909908

<https://www.phoenixcontact.com/il/products/2909908>

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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.



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## 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

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## Commercial Data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2909908                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to Order (non-returnable) |
| Product Key                          | CLA135                         |
| Catalog Page                         | Page 379 (C-4-2019)            |
| GTIN                                 | 4055626408750                  |
| Weight per Piece (including packing) | 44.2 g                         |
| Weight per Piece (excluding packing) | 27.64 g                        |
| Customs tariff number                | 85363010                       |
| Country of origin                    | DE                             |

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## 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 |

### 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                                                                                                                   |
| Operating voltage                          | 18 V DC ... 30 V DC                                                                                                 |
| Rated voltage                              | 24 V DC                                                                                                             |
| Rated current $I_N$                        | 24 A DC (Total current input)<br>6 A DC (Rated current output)                                                      |
| Rated current (pre-adjusted)               | 6 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)<br>< 1.2 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)<br>24 A (Total current at 50°C)                                                        |

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|                            |                                       |
|----------------------------|---------------------------------------|
|                            | 6 A (Channel current at 60°C)         |
|                            | 6 A (Channel current at 50°C)         |
| MTBF (IEC 61709, SN 29500) | 27777777 h (at 25 °C with 21 % load)  |
|                            | 12658227 h (at 40°C with 34.25% load) |
|                            | 1414427 h (at 60°C with 100% load)    |
| Voltage drop               | 0.1 V (at 6 A)                        |
| Fail-safe element          | 15 A DC                               |

## Load circuit

|                         |                                                             |
|-------------------------|-------------------------------------------------------------|
| Shutdown time           | ≤ 10 ms (for short circuit > 2.0 x I <sub>N</sub> )         |
|                         | 1 s (1.2 ... 2.0 x I <sub>N</sub> )                         |
| 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    | 30000 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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section solid                                         | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section AWG                                           | 24 ... 12                                   |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

### Main circuit IN-

|                                                                       |                                             |
|-----------------------------------------------------------------------|---------------------------------------------|
| Connection method                                                     | Push-in connection                          |
| Stripping length                                                      | 8 mm                                        |
| Conductor cross section flexible                                      | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section solid                                         | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section AWG                                           | 24 ... 12                                   |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

### Main circuit OUT

|                   |                    |
|-------------------|--------------------|
| Connection method | Push-in connection |
|-------------------|--------------------|

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|                                                                       |                                             |
|-----------------------------------------------------------------------|---------------------------------------------|
| Stripping length                                                      | 8 mm                                        |
| Conductor cross section flexible                                      | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section solid                                         | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section AWG                                           | 24 ... 12                                   |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

## LED signaling

|                    |                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Channel LED off    | off (Channel switched off)                                                                                                                                                                                                                                                                                                                                            |
| Channel LED yellow | lit (Channel switched on, channel load > 80% )<br>flashing (Programming mode active)                                                                                                                                                                                                                                                                                  |
| Channel LED green  | lit (Channel switched on)                                                                                                                                                                                                                                                                                                                                             |
| Channel LED red    | lit (Channel switched off, over- or undervoltage active)<br>ON temporarily (Channel switched off, 5 s cool-down phase, overload or short-circuit release)<br>flashing (Channel switched off, ready to be switched back on, overload or short-circuit release)<br>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)<br>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))<br>≤ 4000 m up to 46 °C (amsl (above mean sea level)) |
| Humidity test                           | 96 h, 95 % RH, 40 °C                                                                                     |

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|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| Shock (operation)     | 30g (IEC 60068-2-27, Test Ea)                                                                           |
| Vibration (operation) | 10 Hz ... 59.6 Hz (Amplitude $\pm 0.35$ 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                                                                         |
|                | 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 |
|---------------|-----------------|



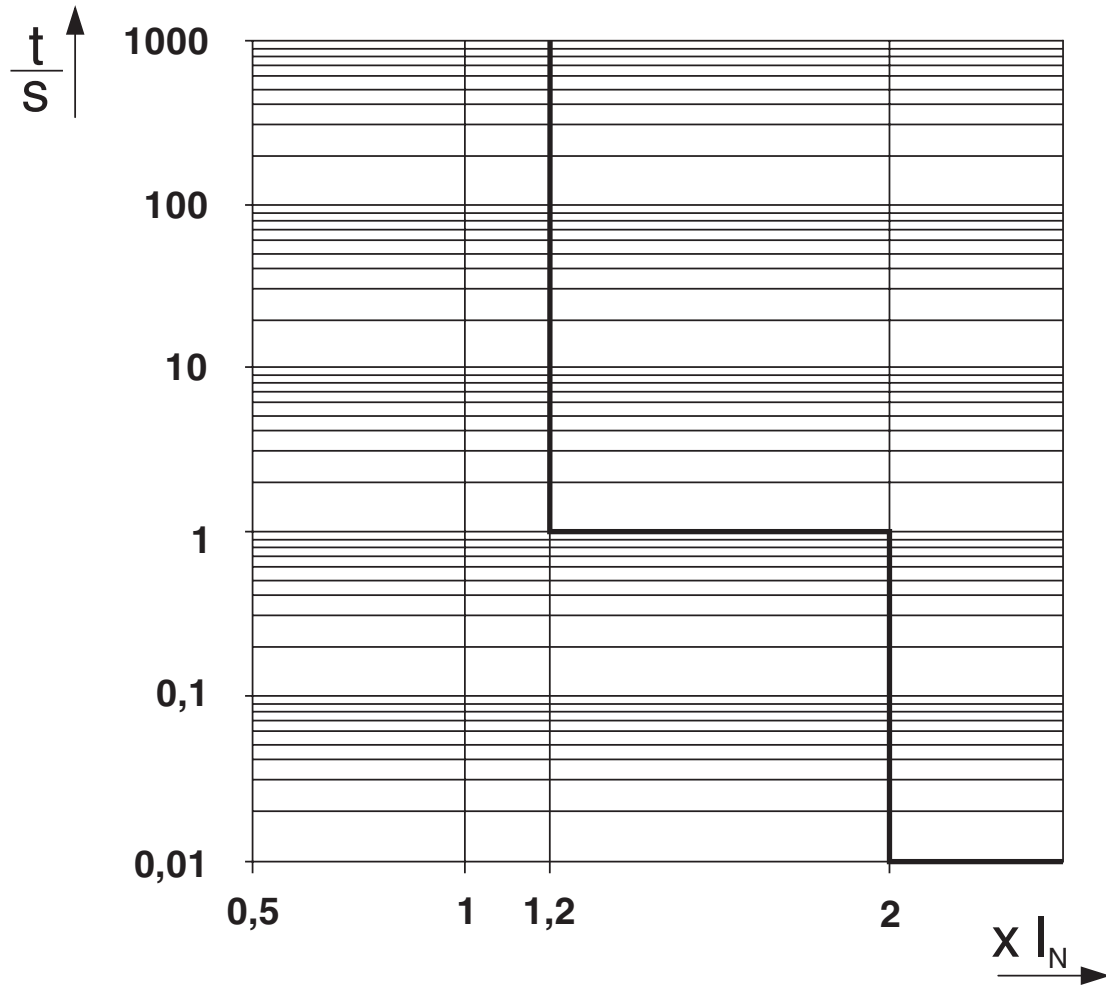
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Diagram



Trigger characteristic in the DC range

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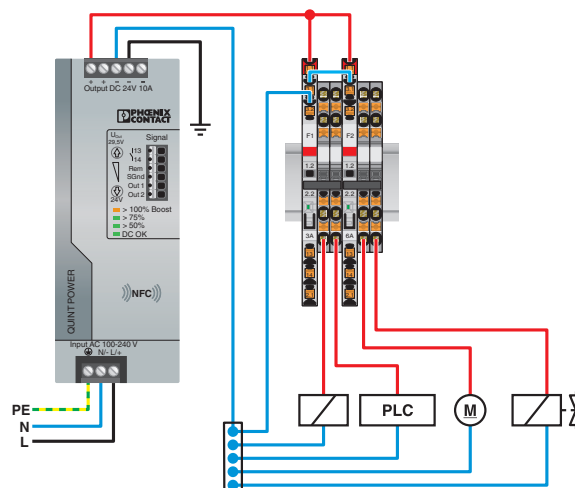
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Product drawing



Application drawing

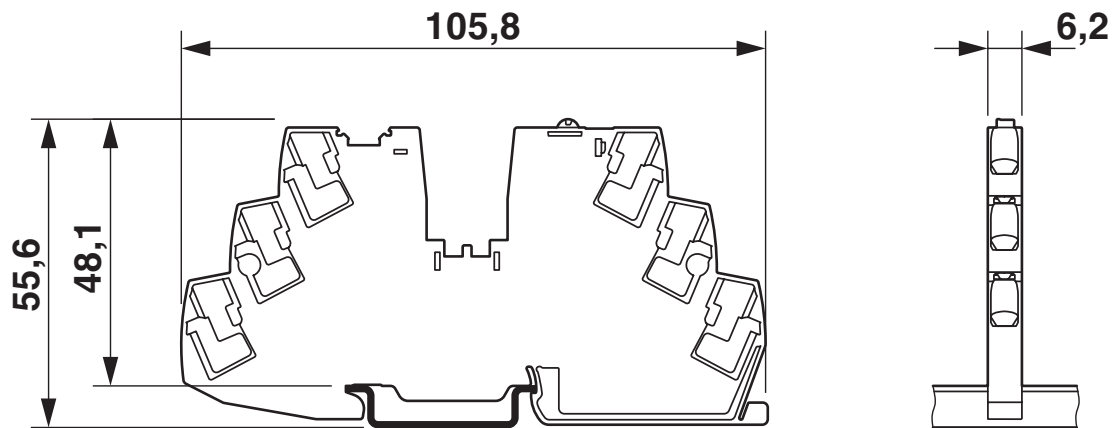


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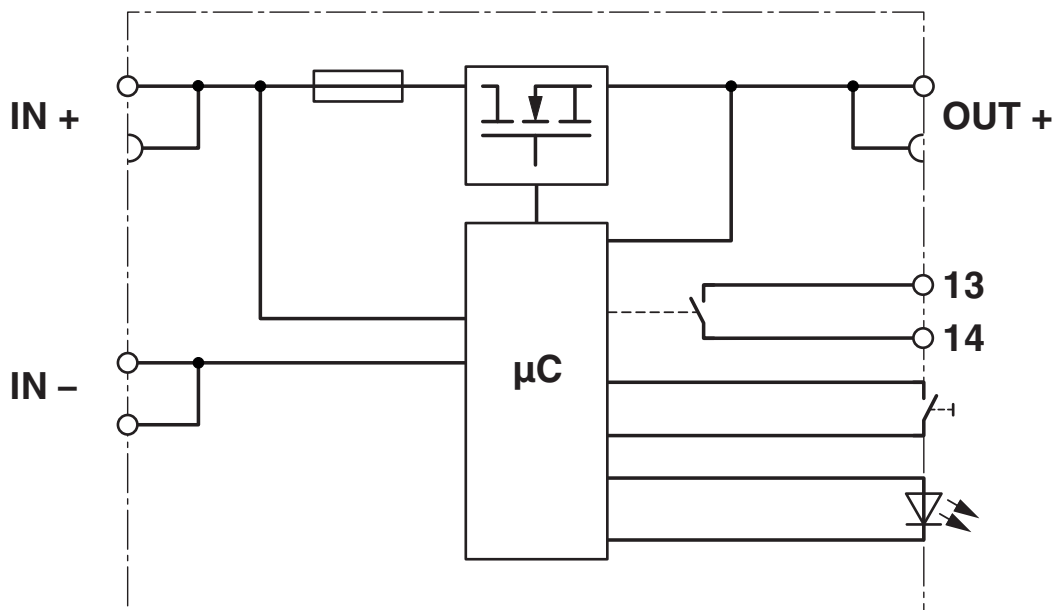
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Dimensional drawing



Block diagram



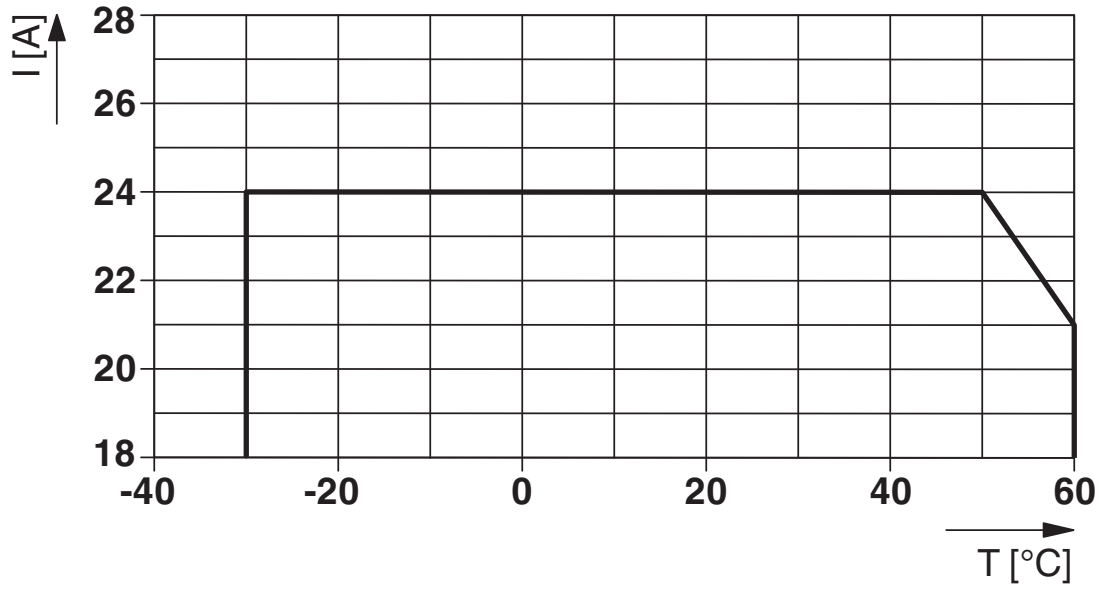
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Diagram



Total current input


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## 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 $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  |                       |                       | -                 | -                           |

 **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**

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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" |

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## Accessories



Note: Applying some accessories below might limit this product.

### Zack Marker strip, flat

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

<https://www.phoenixcontact.com/il/products/0808710>



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

### Feed-through terminal block

Feed-through terminal block - PT 4 - 3211757

<https://www.phoenixcontact.com/il/products/3211757>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in connection, 1 level, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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<https://www.phoenixcontact.com/il/products/2909908>

## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/products/3211771>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in connection, 1 level, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/products/3211797>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in connection, 1 level, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

Feed-through terminal block - ST 4 - 3031364

<https://www.phoenixcontact.com/il/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<sup>2</sup>, cross section: 0.08 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/products/3031393>



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

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/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<sup>2</sup>, cross section: 0.08 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/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<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/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<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/7,5, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/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<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/7,5, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/products/3209510>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/products/3209549>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/products/3209578>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/products/3031212>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Spring-cage connection, 1 level, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/products/3031241>



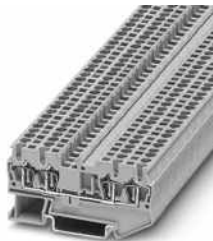
Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Spring-cage connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/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<sup>2</sup>, cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/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<sup>2</sup>, cross section: 0.25 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/7,5, color: gray

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## Feed-through terminal block

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

<https://www.phoenixcontact.com/il/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<sup>2</sup>, cross section: 0.25 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/7,5, color: gray

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## Feed-through terminal block

Feed-through terminal block - PT 10 - 3212120

<https://www.phoenixcontact.com/il/products/3212120>



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

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## Feed-through terminal block

Feed-through terminal block - ST 10 - 3036110

<https://www.phoenixcontact.com/il/products/3036110>



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, connection method: Spring-cage connection, 1 level, Rated cross section: 10 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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<https://www.phoenixcontact.com/il/products/2909908>

## Reducing bridge

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

<https://www.phoenixcontact.com/il/products/3030873>



Reducing bridge, pitch: 10 mm, color: red

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## Wire bridge

Wire bridge - DB 50- 90 BK - 2820916

<https://www.phoenixcontact.com/il/products/2820916>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: black



# Electronic circuit breaker - PTCB E1 24DC/6A NO



2909908

<https://www.phoenixcontact.com/il/products/2909908>

## Wire bridge

Wire bridge - DB 50- 90 BU - 2821180

<https://www.phoenixcontact.com/il/products/2821180>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: blue



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## Wire bridge

Wire bridge - DB 50- 90 GY - 2820929

<https://www.phoenixcontact.com/il/products/2820929>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: gray



# Electronic circuit breaker - PTCB E1 24DC/6A NO



2909908

<https://www.phoenixcontact.com/il/products/2909908>

## Wire bridge

Wire bridge - DB 50- 90 RD - 2864639

<https://www.phoenixcontact.com/il/products/2864639>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: red



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## Type 3 surge protection device

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

<https://www.phoenixcontact.com/il/products/1027586>

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



# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>

## Fast connection terminal block

Fast connection terminal block - QTC 1,5 - 3205019

<https://www.phoenixcontact.com/il/products/3205019>



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

---


## Plug-in bridge

Plug-in bridge - FBS 2-6 - 3030336

<https://www.phoenixcontact.com/il/products/3030336>



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

 Max. current carrying capacity: 32 A

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

Plug-in bridge - FBS 3-6 - 3030242

<https://www.phoenixcontact.com/il/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/il/products/3030255>



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

 Max. current carrying capacity: 32 A

---

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>

## Plug-in bridge

Plug-in bridge - FBS 5-6 - 3030349

<https://www.phoenixcontact.com/il/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/il/products/3030271>



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

 Max. current carrying capacity: 32 A

---

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

Plug-in bridge - FBS 20-6 - 3030365

<https://www.phoenixcontact.com/il/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/il/products/3032224>



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

 Max. current carrying capacity: 32 A

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3036945>



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

 Max. current carrying capacity: 32 A

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# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3036961>



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

 Max. current carrying capacity: 32 A

---

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>

## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3032208>



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

 Max. current carrying capacity: 32 A

---

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3032237>



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

 Max. current carrying capacity: 32 A

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3032279>



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

 Max. current carrying capacity: 32 A

---

# Electronic circuit breaker - PTCB E1 24DC/6A NO



2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3030161>



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

 Max. current carrying capacity: 24 A

---

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

Plug-in bridge - FBS 3-5 - 3030174

<https://www.phoenixcontact.com/il/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/il/products/3030187>



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

 Max. current carrying capacity: 24 A

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

Plug-in bridge - FBS 5-5 - 3030190

<https://www.phoenixcontact.com/il/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/il/products/3030213>



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

 Max. current carrying capacity: 24 A

---

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

Plug-in bridge - FBS 20-5 - 3030226

<https://www.phoenixcontact.com/il/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/il/products/3038930>



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

 Max. current carrying capacity: 24 A

---

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3036880>



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

 Max. current carrying capacity: 24 A

---

# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3036903>



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

 Max. current carrying capacity: 24 A

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# Electronic circuit breaker - PTCB E1 24DC/6A NO

2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3036929>



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

 Max. current carrying capacity: 24 A

---

# Electronic circuit breaker - PTCB E1 24DC/6A NO



2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3038969>



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

 Max. current carrying capacity: 24 A

# Electronic circuit breaker - PTCB E1 24DC/6A NO



2909908

<https://www.phoenixcontact.com/il/products/2909908>


## Plug-in bridge

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

<https://www.phoenixcontact.com/il/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/il/products/3038985>



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

 Max. current carrying capacity: 24 A

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# Electronic circuit breaker - PTCB E1 24DC/6A NO



2909908

<https://www.phoenixcontact.com/il/products/2909908>

## Plug-in bridge

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

<https://www.phoenixcontact.com/il/products/3038998>



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

 Max. current carrying capacity: 24 A

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## Zack marker strip

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003

<https://www.phoenixcontact.com/il/products/1051003>



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

# Electronic circuit breaker - PTCB E1 24DC/6A NO



2909908

<https://www.phoenixcontact.com/il/products/2909908>

## Marker for terminal blocks

Marker for terminal blocks - UCT-TM 6 - 0828736

<https://www.phoenixcontact.com/il/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: snap in, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

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## Marker for terminal blocks

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

<https://www.phoenixcontact.com/il/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

# Electronic circuit breaker - PTCB E1 24DC/6A NO



2909908

<https://www.phoenixcontact.com/il/products/2909908>

## Marker for terminal blocks

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

<https://www.phoenixcontact.com/il/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



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