

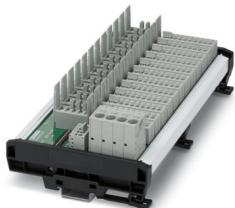
# CBB 12 2X6RC-PT - Potential distributors



2905241

<https://www.phoenixcontact.com/us/products/2905241>

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Device circuit breaker boards for twelve thermal-magnetic (CB TM1...) or electronic (CB E1... NO) circuit breakers with group remote signaling, central supply, connection for relay contacts, and potential distribution for up to four loads per channel.

## Your advantages

- Reduced installation work with a combination of slots for protective modules and potential distributors
- Space savings of up to 35% thanks to compact design
- The system operating state is always available at a glance with integrated group remote signaling
- Up to 4 loads can be protected simultaneously with the additional terminal points

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2905241       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | CL04          |
| Product key                          | CLA211        |
| GTIN                                 | 4046356935371 |
| Weight per piece (including packing) | 691.4 g       |
| Weight per piece (excluding packing) | 584.9 g       |
| Customs tariff number                | 85363090      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                     |   |
|---------------------|---|
| Product type        | Device circuit breaker board            |
| Type                | DIN rail module, two-section, divisible |
| Number of positions | 1                                       |
| No. of channels     | 12                                      |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Protection class     | III |
| Overvoltage category | II  |
| Degree of pollution  | 2   |

### Electrical properties

|   |                              |
|---|------------------------------|
| Maximum load current                    | 60 A (Complete main circuit) |
| Maximum current with single arrangement | 12 A (per channel)           |

### General

|                              |   |
|------------------------------|---|
| Rated surge voltage          | 0.5 kV  |
| Short-circuit current rating | 600 A (conditional according to DIN EN 50178) |
| Power dissipation            | 4.5 W (without circuit breaker)               |
| Insertion/withdrawal cycles  | 50  |

### Main circuit

|                     |  |
|---------------------|--|
| Rated voltage       | 24 V DC                                  |
| Rated current $I_N$ | 60 A DC (total)<br>12 A DC (per channel) |

### Remote indication circuit

|                     |          |
|---------------------|----------|
| Rated voltage       | 24 V DC  |
| Rated current $I_N$ | 0.5 A DC |

### Connection data

|                      |                              |
|----------------------|------------------------------|
| Maximum load current | 60 A (Complete main circuit) |
|----------------------|------------------------------|

### Supply X21

|   |   |
|---|---|
| Connection method   | Push-in connection                          |
| Stripping length  | 18 mm                                       |
| Conductor cross-section rigid   | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross-section AWG   | 20 ... 4                                    |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve  | 0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Conductor cross-section flexible, with ferrule without plastic sleeve | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> |

### Outputs X1 ... X12

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

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|   |  |
|---|--|
| Stripping length  | 10 mm  |
| Conductor cross-section rigid   | 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  | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross-section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

## Remote signaling X31

|   |  |
|---|--|
| Connection method   | Push-in connection                           |
| Stripping length  | 10 mm  |
| Conductor cross-section rigid   | 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  | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross-section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

## Dimensions

| Dimensional drawing |          |
|---------------------|----------|
|                     |          |
| Width               | 232 mm   |
| Height              | 127.8 mm |
| Depth               | 70.8 mm  |

## Material specifications

|  |                 |
|--|-----------------|
| Color                                  | gray (RAL 7042) |
| Material                               | PA 6            |
|  | FR4-21          |
| Flammability rating according to UL 94 | V0              |
| Housing material                       | PA 6            |

## Mechanical properties

| Mechanical data |    |
|-----------------|----|
| Open side panel | No |

## Environmental and real-life conditions

| Ambient conditions                      |   |
|---|---|
| Degree of protection                    | IP20 (Terminal blocks and fuse holders)<br>IP00 (PCB) |
| Ambient conditions                      | A, B  |
| Ambient temperature (operation)         | -30 °C ... 60 °C (at 48 A, see derating)              |
| Ambient temperature (storage/transport) | -30 °C ... 80 °C                                      |
| Humidity test                           | 96 h, 93 % RH, 40 °C                                  |

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## Standards and regulations

|                          |                               |
|--------------------------|-------------------------------|
| Standards/specifications | DIN EN 50178                  |
| Note                     | 1997                          |
| Standards/specifications | DIN EN 61000-6-2:2005         |
| Standards/specifications | DIN EN 61000-6-3:2007+A1:2011 |
| Standards/specifications | DIN EN 60068-2-6              |

## Mounting

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

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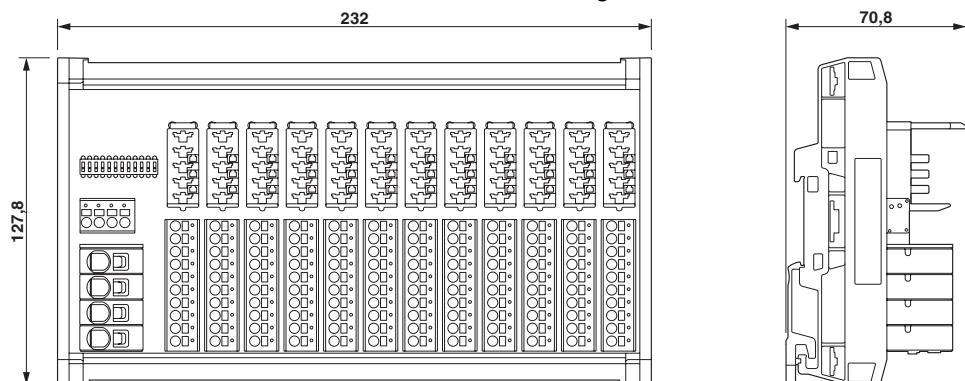
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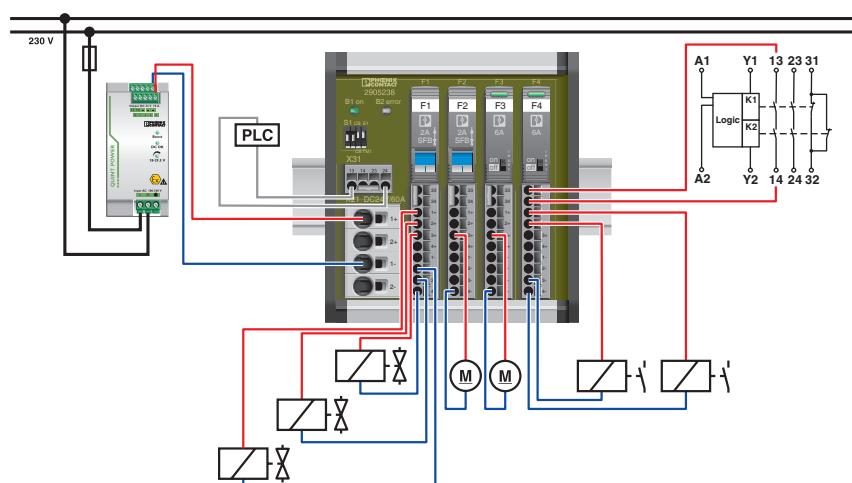


## Drawings

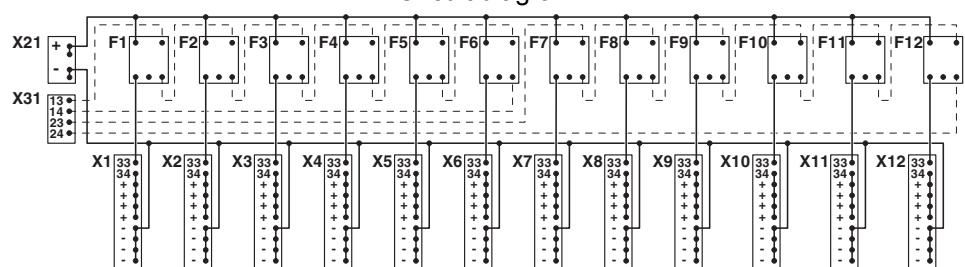
Dimensional drawing



Application drawing



Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250113 |
| ECLASS-15.0 | 27250113 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000899 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|   |              |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 7(a), 7(c)-I |

### China RoHS

|   |         |
|---|---------|
| 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: n/a)                       |
| SCIP                                | d9f425c6-e478-4d20-b067-6327cac906db |

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