

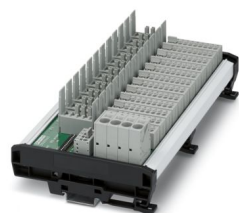
# CBB 12 2X6RC-PT - Potential distributors



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)
	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)
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### 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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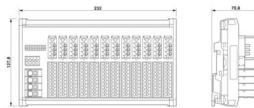
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Stripping length	10 mm
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor 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
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20 (Terminal blocks and fuse holders)
	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

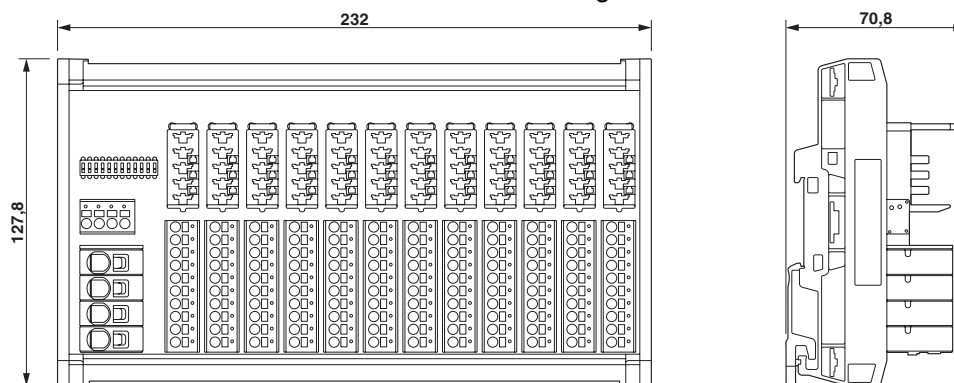
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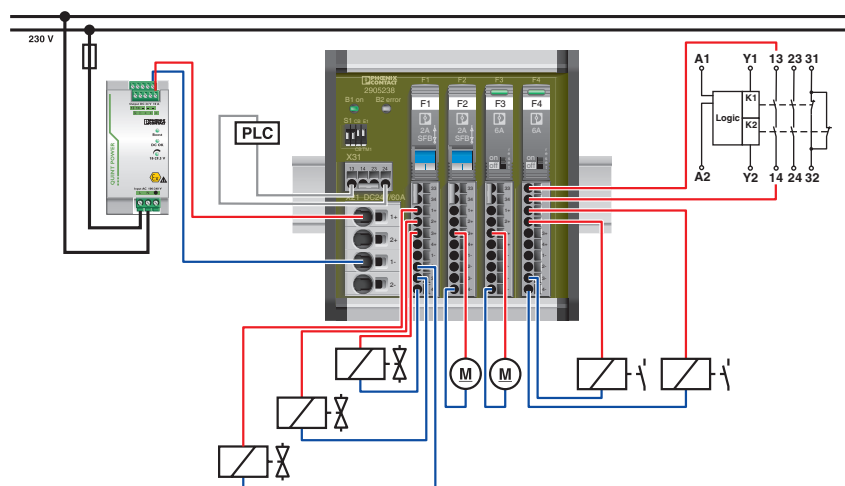
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## Drawings

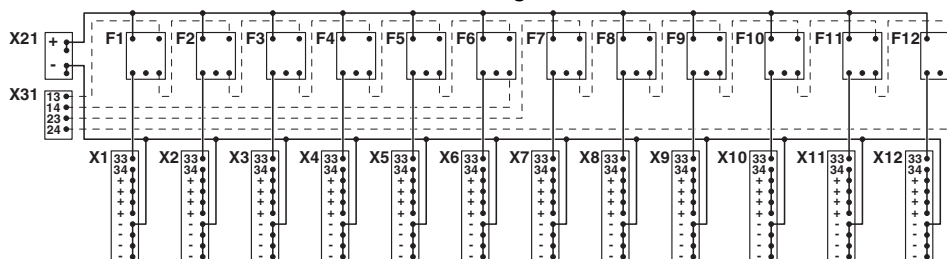
Dimensional drawing



Application drawing



Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27250113
ECLASS-15.0	27250113

### ETIM

ETIM 9.0	EC000899
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### 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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