

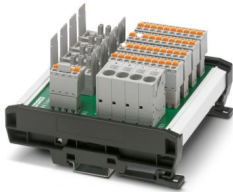
# CBB TM 04 2X2RC P-PT - Potential distributors



2801481

<https://www.phoenixcontact.com/us/products/2801481>

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Device circuit breaker boards for four CB TM1... thermal-magnetic circuit breakers with group remote signaling, central supply, and potential distribution for up to five loads per channel.

## Commercial data

Item number	2801481
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA211
GTIN	4046356782319
Weight per piece (including packing)	355.8 g
Weight per piece (excluding packing)	302.2 g
Customs tariff number	85366990
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	4

### Insulation characteristics

Overvoltage category	II
Degree of pollution	2

### Electrical properties

Fuse type	Automatic device
Maximum load current	48 A (Complete main circuit)
Maximum current with single arrangement	12 A (per channel)

### General

Rated insulation voltage $U_i$	50 V DC
Rated surge voltage	0.5 kV
Short-circuit current rating	600 A (conditional according to DIN EN 50178)
Power dissipation	4.1 W (with even load on outputs with In)
Insertion/withdrawal cycles	50

### Main circuit

Rated voltage	24 V DC
Rated current $I_N$	48 A DC (total) 12 A DC (per channel)

### Remote indication circuit

Rated voltage	24 V DC
Rated current $I_N$	1 A DC

### Connection data

Maximum load current	48 A (Complete main circuit)
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### Supply X21

Connection method	Push-in connection
Stripping length	18 mm
Conductor cross-section flexible min.	0.75 mm <sup>2</sup>
Conductor cross-section flexible max.	16 mm <sup>2</sup>
Conductor cross-section, rigid min.	0.75 mm <sup>2</sup>
Conductor cross-section, rigid max.	16 mm <sup>2</sup>

### Outputs X1 ... X4

Connection method	Push-in connection
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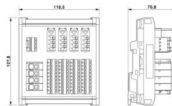
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Stripping length	10 mm
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>

## Remote signaling X31

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>

## Dimensions

Dimensional drawing	
Width	118.5 mm
Height	127.8 mm
Depth	70.8 mm

## Material specifications

Color	gray (RAL 7042)
	black (RAL 9005)
Flammability rating according to UL 94	V0

## 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 temperature (operation)	-30 °C ... 60 °C (At max. 45 A, see derating)
Ambient temperature (storage/transport)	-30 °C ... 80 °C

## Standards and regulations

Standards/specifications	DIN EN 50178
Note	1997

## Mounting

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Mounting type	DIN rail: 35 mm
Mounting position	horizontal

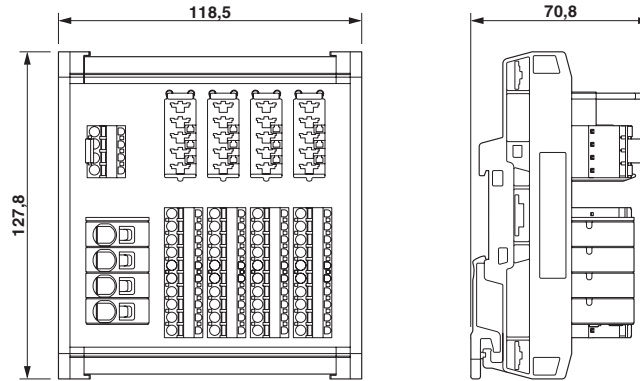
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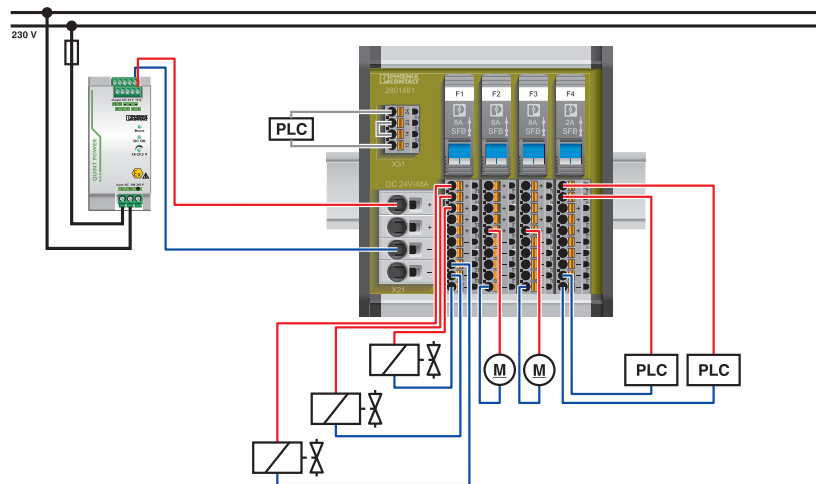
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## Drawings

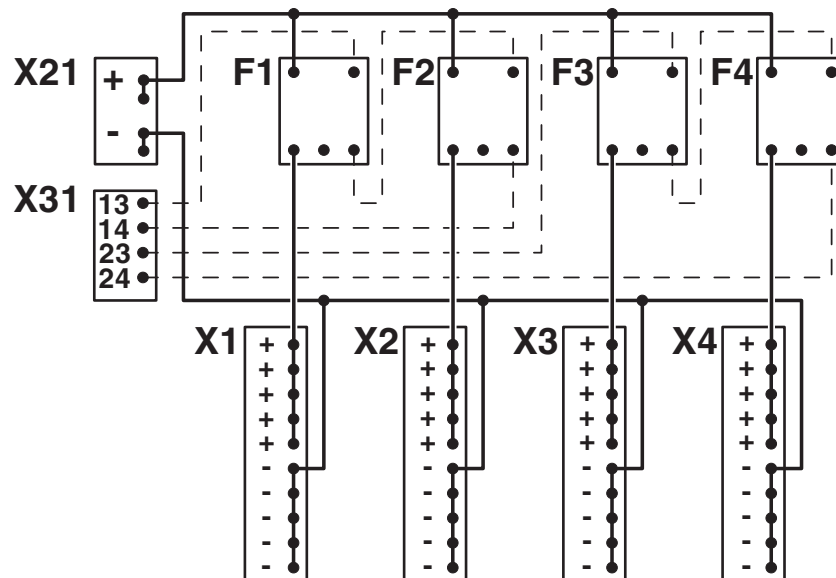
Dimensional drawing



Application drawing



Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27371392
ECLASS-15.0	27371392

### ETIM

ETIM 10.0	EC002886
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### UNSPSC

UNSPSC 21.0	39121100
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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