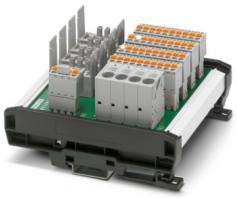
CBB TM 04 2X2RC P-PT - Potential distributors

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

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)

Supply X21

Connection method	Push-in connection
Stripping length	18 mm
Conductor cross-section flexible min.	0.75 mm²
Conductor cross-section flexible max.	16 mm²
Conductor cross-section, rigid min.	0.75 mm²
Conductor cross-section, rigid max.	16 mm²

Outputs X1 ... X4

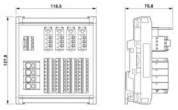
Connection method	Push-in connection

Stripping length	10 mm
Conductor cross-section flexible min.	0.2 mm²
Conductor cross-section flexible max.	2.5 mm²
Conductor cross-section, rigid min.	0.2 mm²
Conductor cross-section, rigid max.	2.5 mm²

Remote signaling X31

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section flexible min.	0.2 mm²
Conductor cross-section flexible max.	2.5 mm²
Conductor cross-section, rigid min.	0.2 mm²
Conductor cross-section, rigid max.	2.5 mm²

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

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

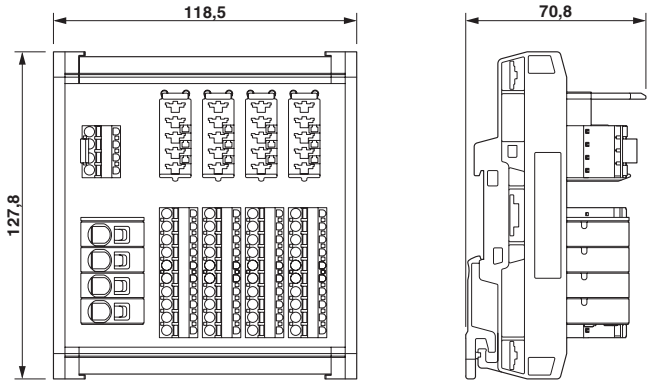
Standards/specifications	DIN EN 50178
Note	1997

Mounting

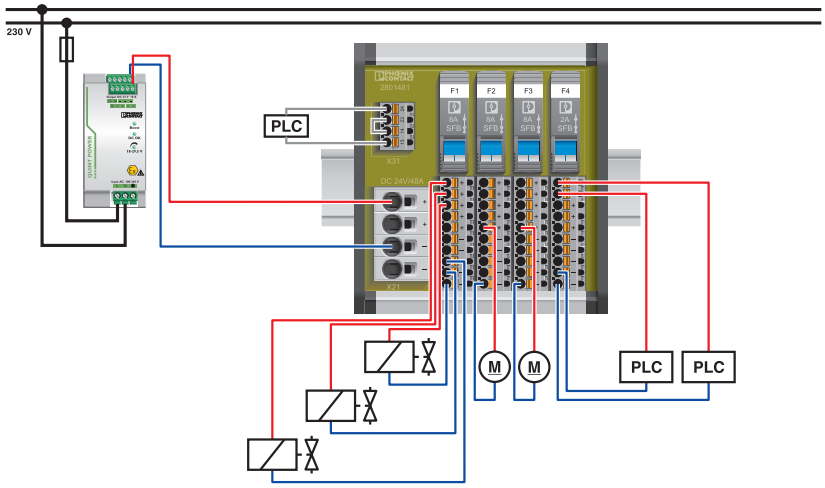
Mounting type	DIN rail: 35 mm
Mounting position	horizontal

Drawings

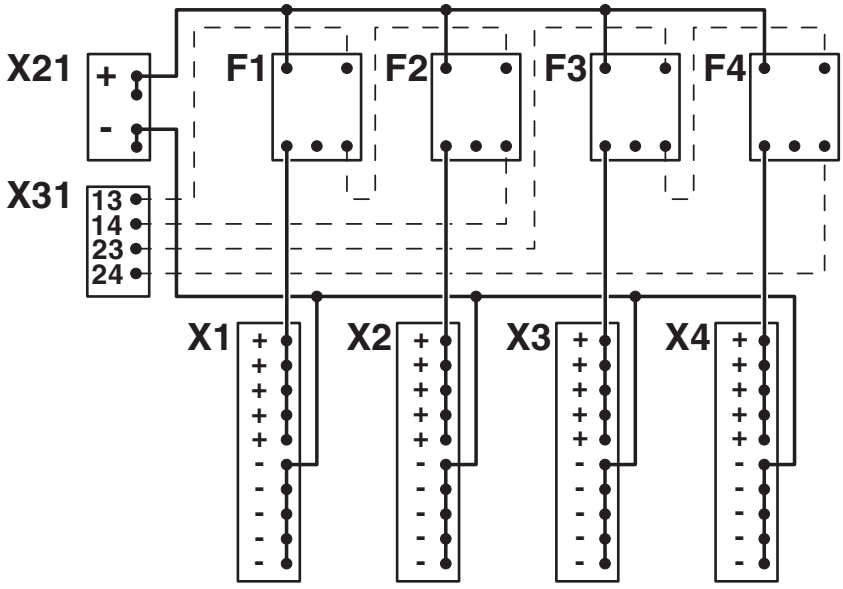
Dimensional drawing



Application drawing



Circuit diagram



Classifications

ECLASS

ECLASS-13.0	27371392
ECLASS-15.0	27371392

ETIM

ETIM 10.0	EC002886

UNSPSC

UNSPSC 21.0	39121100

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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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