

**CRM20048TLD**

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Similar to illustration

Individual relays within the CUBESERIES CRM

- Control voltages from 12 - 110 V DC and 24 - 230V AC
- 2 CO contact (12 A)
- With test buttons with colour coding (DC coil: blue)
- Integrated green status LED and free-wheeling diode
- With mechanical status indicator

**General ordering data**

Version	CUBESERIES, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 48 V DC, Continuous current: 12 A, Plug-in connection, Test button available: Yes
Order No.	<a href="#">3052880000</a>
Type	CRM20048TLD
GTIN (EAN)	4099987022699
Qty.	10 items

## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E223474

## Dimensions and weights

Depth	35.5 mm	Depth (inches)	1.3976 inch
Height	27.4 mm	Height (inches)	1.0787 inch
Width	21 mm	Width (inches)	0.8268 inch
Net weight	35 g		

## Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	-40 °C...70 °C
Operating temperature		Humidity	25 °C / 95 % rel. humidity, no condensation

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## Rated data UL

Certificate No. (cURus)	E223474
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## Control side

Rated control voltage	48 V DC	Rated current DC	18.5 mA
Power rating	0.9 W	Coil resistance	2600 Ω ± 10 %
Status indicator	Green LED	Protective circuit	Free-wheeling diode

## Load side

Rated switching voltage	250 V AC	Continuous current	12 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	AC switching capacity (resistive), max.	3000 VA
DC switching capacity (resistive), max.	288 W @ 24 V	Switch-on delay	≤ 20 ms
Switch-off delay	≤ 20 ms	Contact type	2 CO contact (AgNi)
Mechanical service life	2 x 10 <sup>7</sup> switching cycles	Min. switching power	10 mA @ 12 V, 100 mA @ 5 V

## General data

Operating altitude	≤ 2000 m, above sea level	Test button available	Yes
Version of test button	Lockable test button, Momentary test button	Mechanical switch position indicator	Yes
Colour	Transparent	UL 94 flammability rating	V-2

**Technical data**

**Insulation coordination**

Rated voltage	250 V	Pollution severity	3
Surge voltage category	III	Dielectric strength for control side - load side	2.5 kVeff/ 1 min
Dielectric strength of neighbouring contacts	2.5 kVeff/ 1 min	Dielectric strength of open contact	1.5 kVeff /1 min.
Impulse withstand voltage	4 kV (1.2/50 µs)	Protection degree	IP40

**Further details of approvals / standards**

Certificate No. (CSA)	607178-80219312	Certificate No. (VDE)	40059812
Certificate No. (cURus)	E223474		

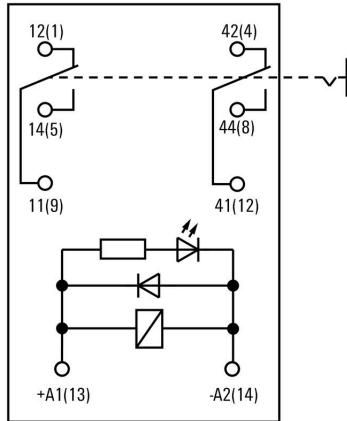
**Connection data**

Wire connection method	Plug-in connection	Pitch in mm (P)	5.00 mm
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**Classifications**

ETIM 8.0	EC001437	ETIM 9.0	EC001437
ETIM 10.0	EC001437	ECLASS 14.0	27-37-16-01
ECLASS 15.0	27-37-16-01		

Connection diagram



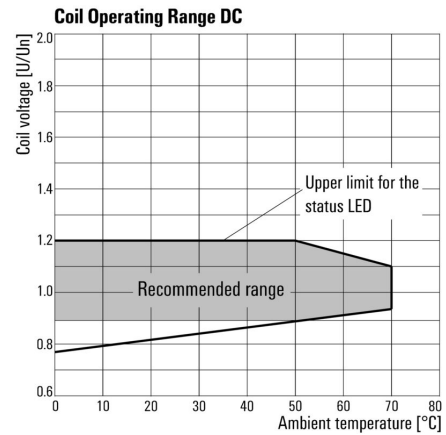
Graph



Graph



Graph



Dimensional drawing



Miscellaneous

**Type code CUBESERIES relay versions**



Type codes