

**CRM20024TLD****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

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: 24 V DC +10 % / -20 %, Continuous current: 12 A, Plug-in connection, Test button available: Yes |
| Order No.  | <a href="#">3052870000</a>                                                                                                                                                        |
| Type       | CRM20024TLD                                                                                                                                                                       |
| GTIN (EAN) | 4099987022682                                                                                                                                                                     |
| Qty.       | 10 pc(s).                                                                                                                                                                         |

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Catalogue status 26.04.2025 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 35.5 mm | Depth (inches)  | 1.398 inch |
| Height     | 27.4 mm | Height (inches) | 1.079 inch |
| Width      | 21 mm   | Width (inches)  | 0.827 inch |
| Net weight | 35 g    |                 |            |

## Temperatures

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

## Rated data UL

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E223474 |
|-------------------------|---------|

## Control side

|                       |                        |                    |                     |
|-----------------------|------------------------|--------------------|---------------------|
| Rated control voltage | 24 V DC + 10 % / -20 % | Rated current DC   | 37.8 mA             |
| Power rating          | 0.9 W                  | Coil resistance    | 640 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 |

## Insulation coordination

|                                              |                               |                                                  |                                |
|----------------------------------------------|-------------------------------|--------------------------------------------------|--------------------------------|
| Rated voltage                                | 250 V                         | Pollution severity                               | 3                              |
| Surge voltage category                       | III                           | Dielectric strength for control side - load side | 2.5 kV <sub>eff</sub> / 1 min  |
| Dielectric strength of neighbouring contacts | 2.5 kV <sub>eff</sub> / 1 min | Dielectric strength of open contact              | 1.5 kV <sub>eff</sub> / 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 mm |
|------------------------|--------------------|-----------------|------|

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## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ETIM 8.0    | EC001437    | ETIM 9.0    | EC001437    |
| ETIM 10.0   | EC001437    | ECLASS 9.0  | 27-37-16-01 |
| ECLASS 9.1  | 27-37-16-01 | ECLASS 10.0 | 27-37-16-01 |
| ECLASS 11.0 | 27-37-16-01 | ECLASS 12.0 | 27-37-16-01 |
| ECLASS 13.0 | 27-37-16-01 | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 |             |             |

## Environmental Product Compliance

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

## Approvals

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                                                                                                                                                                                                 |
| UL File Number Search   | UL Website                                                                                                                                                                                                                                                                                                                                              |
| Certificate No. (cURus) | E223474                                                                                                                                                                                                                                                                                                                                                 |

## Downloads

|                  |                                          |
|------------------|------------------------------------------|
| Engineering Data | <a href="#">CAD data – STEP</a>          |
| Catalogues       | <a href="#">Catalogues in PDF-format</a> |

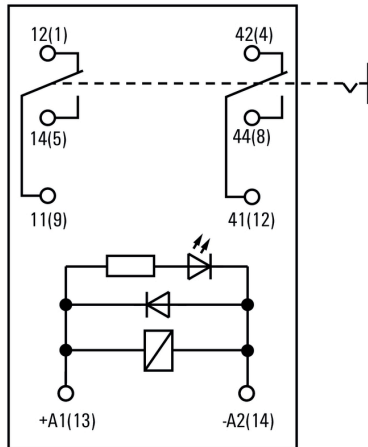
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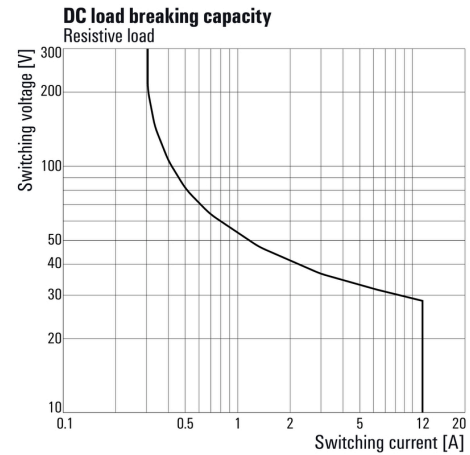
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## Drawings

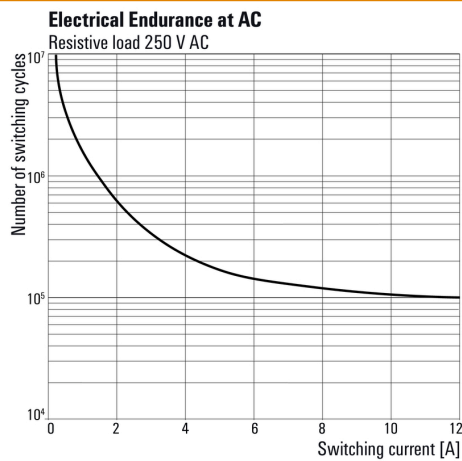
### Connection diagram



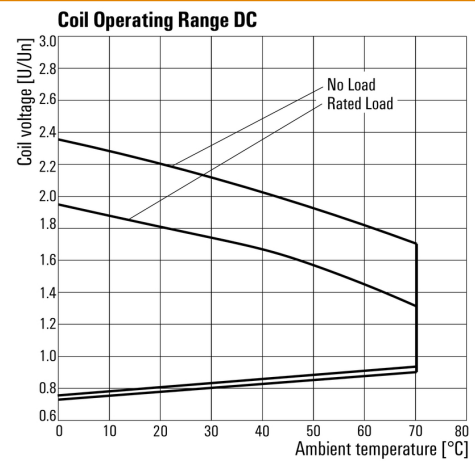
### Graph



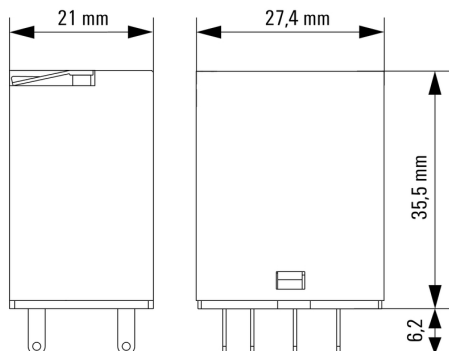
### Graph

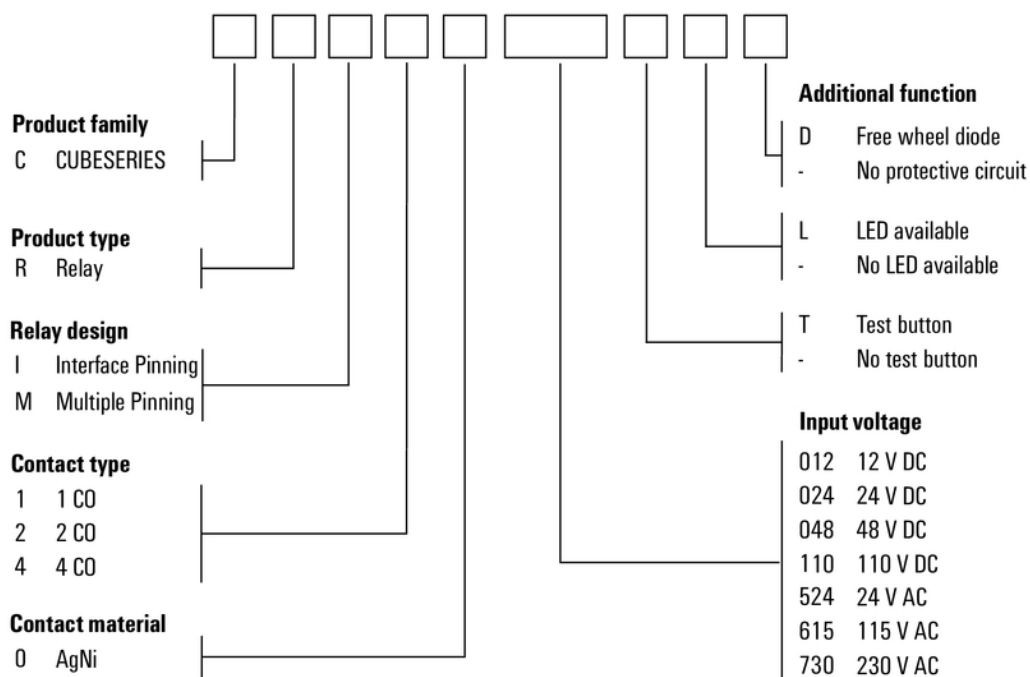


### Graph



### Dimensional drawing



**Miscellaneous****Type code CUBESERIES relay versions**

Type codes