

CRM20730

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Individual relays within the CUBESERIES CRM

- Control voltages from 12 - 110 V DC and 24 - 230V AC
- 2 CO contact (12 A)
- Without test button with coloured blind plugs (AC coil: orange, DC coil: blue)
- With test button 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 (AC coil: orange, DC coil: blue)
- With mechanical status indicator

General ordering data

| | |
|------------|---|
| Version | CUBESERIES, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V AC, Continuous current: 12 A, Plug-in connection, Test button available: No |
| Order No. | 3052780000 |
| Type | CRM20730 |
| GTIN (EAN) | 4099987022590 |
| 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...55 °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 |
|-------------------------|---------|

Control side

| | | | |
|-----------------------|----------|------------------|----------------|
| Rated control voltage | 230 V AC | Rated current AC | 7.1 mA |
| Power rating | 1.63 VA | Coil resistance | 16100 Ω ± 10 % |
| Status indicator | No | | |

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 | ≤ 12 ms | Contact type | 2 CO contact (AgNi) |
| Mechanical service life | 2 x 10 ⁷ 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 | No |
| 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 | | |

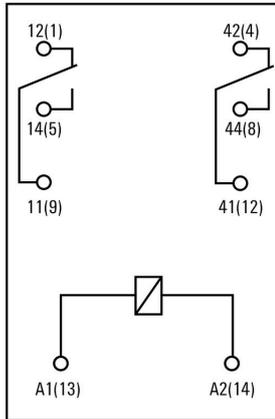
Connection data

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

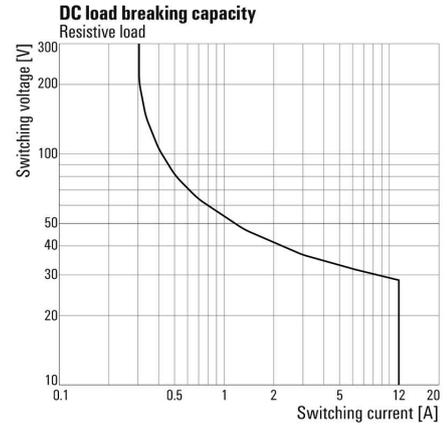
Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| 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 | | |

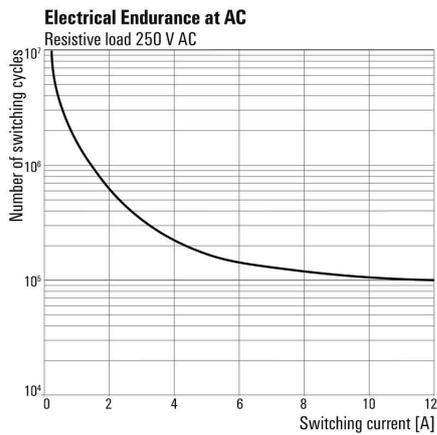
Connection diagram



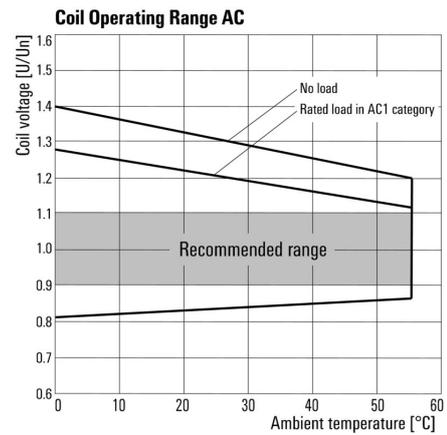
Graph



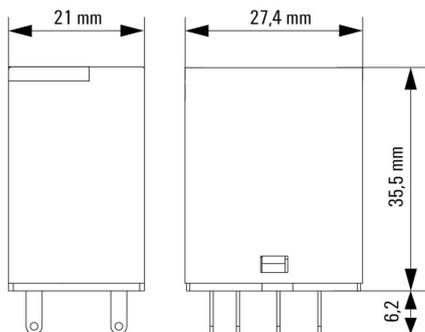
Graph



Graph

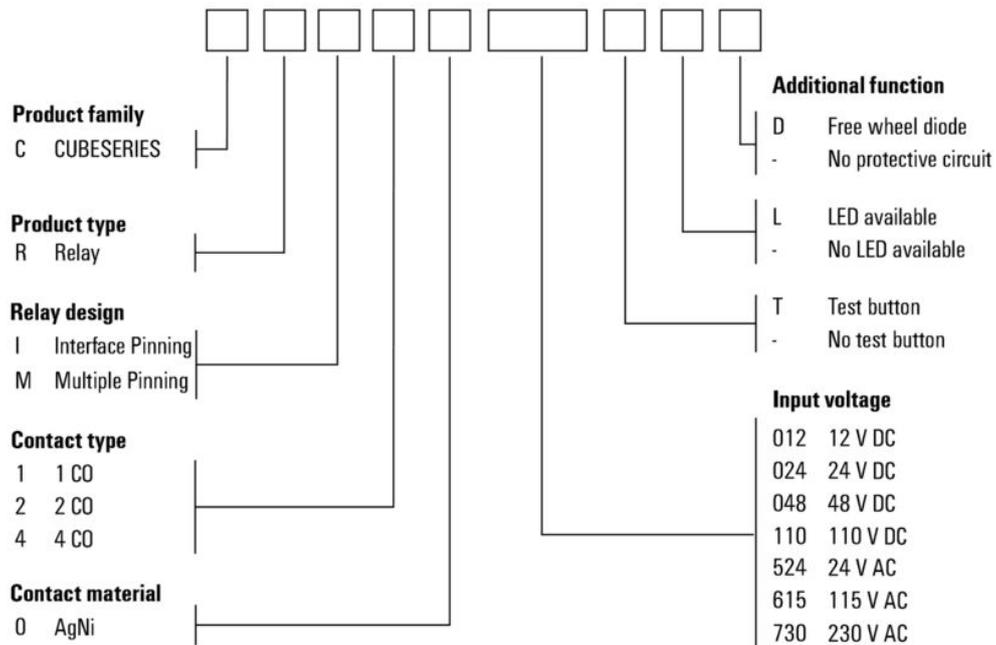


Dimensional drawing



Miscellaneous

Type code CUBESERIES relay versions



Type codes

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Accessories

LED



General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | CXX L 63G | Version | |
| Order No. | 3053460000 | CUBESERIES, LED module, Rated control voltage: 110...230 V UC, | |
| GTIN (EAN) | 4099987023245 | Plug-in connection | |
| Qty. | 20 ST | | |

| | | | |
|------------|----------------------------|--|--|
| Type | CXX L 63R | Version | |
| Order No. | 3053450000 | CUBESERIES, LED module, Rated control voltage: 110...230 V UC, | |
| GTIN (EAN) | 4099987023238 | Plug-in connection | |
| Qty. | 20 ST | | |

Protection modules



General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | CXX RC 53 | Version | |
| Order No. | 3053400000 | CUBESERIES, RC element, Rated control voltage: 110...230 V AC, | |
| GTIN (EAN) | 4099987023184 | Plug-in connection | |
| Qty. | 20 ST | | |

| | | | |
|------------|----------------------------|---|--|
| Type | CXX V 73 | Version | |
| Order No. | 3053490000 | CUBESERIES, Protective varistor, Rated control voltage: 220...240 V | |
| GTIN (EAN) | 4099987023276 | AC, Plug-in connection | |
| Qty. | 20 ST | | |

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Relay sockets



Relay sockets for the CUBESERIES CRM relays

- 4 CO output version for 2 CO and 4 CO relays
- Screw and PUSH IN connection
- PUSH IN sockets with wide pushers for screwdrivers up to 1.0 x 5.5 mm blade size
- Various cross connection possibilities
- Matching accessories such as cross-connections, retaining clips and LED modules

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | CSM P 4CO | Version | |
| Order No. | 3053140000 | CUBESERIES, Relay socket, Number of contacts: 4, CO contact, | |
| GTIN (EAN) | 4099987022965 | Continuous current: 8 A, PUSH IN | |
| Qty. | 10 ST | | |
| Type | CSM S 4CO | Version | |
| Order No. | 3053160000 | CUBESERIES, Relay socket, Number of contacts: 4, CO contact, | |
| GTIN (EAN) | 4099987022989 | Continuous current: 6 A, Screw connection | |
| Qty. | 10 ST | | |

Cross-connections



General ordering data

| | | | |
|------------|----------------------------|-----------------------------|--|
| Type | CXM CCP 2P BL | Version | |
| Order No. | 3053230000 | CUBESERIES, Cross-connector | |
| GTIN (EAN) | 4099987023054 | | |
| Qty. | 20 ST | | |
| Type | CXM CCP 2P RD | Version | |
| Order No. | 3053220000 | CUBESERIES, Cross-connector | |
| GTIN (EAN) | 4099987023047 | | |
| Qty. | 20 ST | | |
| Type | CXM CCP 8P BL | Version | |
| Order No. | 3053210000 | CUBESERIES, Cross-connector | |
| GTIN (EAN) | 4099987023030 | | |
| Qty. | 10 ST | | |
| Type | CXM CCP 8P RD | Version | |
| Order No. | 3053200000 | CUBESERIES, Cross-connector | |
| GTIN (EAN) | 4099987023023 | | |
| Qty. | 10 ST | | |

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Accessories

| | | |
|------------|----------------------------|-----------------------------|
| Type | CXM CCS 6P GY | Version |
| Order No. | 3053180000 | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987023009 | |
| Qty. | 2 ST | |

Retaining clips



Retaining clips for CUBESERIES CRI relays.

Plastic retaining clip:

- With relay ejector function
- Marking slots for MultiFit markers
- Fits on relays with and without test button

Metal retaining clip:

- For a strong hold of the relay in the socket

General ordering data

| | | |
|------------|----------------------------|----------------------------|
| Type | CXM CLIP P | Version |
| Order No. | 3053240000 | CUBESERIES, Retaining clip |
| GTIN (EAN) | 4099987023061 | |
| Qty. | 10 ST | |
| Type | CXM CLIP M | Version |
| Order No. | 3053190000 | CUBESERIES, Retaining clip |
| GTIN (EAN) | 4099987023016 | |
| Qty. | 25 ST | |

Cross-connections



Cross-connection for the sockets in the CUBESERIES CRI.

- Versions with red and blue coloured plastic for potential coding

Versions for PUSH IN sockets:

- 8-pin cross connection for A1 and A2 of the coil
- 2-pin jumper to connect to the neighbored sockets
- 2-pin jumper to connect the output channels within one socket

Version for screw sockets:

- 8-pin cross connection to connect to the neighbored sockets

General ordering data

| | | |
|------------|----------------------------|-----------------------------|
| Type | CXX JMP 2P BL | Version |
| Order No. | 3053260000 | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987023085 | |
| Qty. | 30 ST | |
| Type | CXX JMP 2P RD | Version |
| Order No. | 3053250000 | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987023078 | |
| Qty. | 30 ST | |

Relay sockets



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- Various cross connection possibilities
- Matching accessories such as cross-connections, retaining clips and LED modules

General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | CSM P 4CO | Version | |
| Order No. | 3053140000 | | CUBESERIES, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4099987022965 | | Continuous current: 8 A, PUSH IN |
| Qty. | 10 ST | | |
| Type | CSM S 4CO | Version | |
| Order No. | 3053160000 | | CUBESERIES, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4099987022989 | | Continuous current: 6 A, Screw connection |
| Qty. | 10 ST | | |