

**RCM330024****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Similar to illustration

**General ordering data**

|            |                                                                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | RIDERSERIES RCM, Relay, Number of contacts: 3, CO contact without test button AgNi 5µm Au, Rated control voltage: 24 V DC, Continuous current: 10 A, Plug-in connection |
| Order No.  | <a href="#">2450470000</a>                                                                                                                                              |
| Type       | RCM330024                                                                                                                                                               |
| GTIN (EAN) | 4050118464443                                                                                                                                                           |
| Qty.       | 10 pc(s).                                                                                                                                                               |

Creation date March 27, 2021 12:32:31 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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## Technical data

### Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 29 mm      | Depth (inches)  | 1.142 inch |
| Height         | 28 mm      | Height (inches) | 1.102 inch |
| Net weight     | 29.8 g     | Width           | 22.5 mm    |
| Width (inches) | 0.886 inch |                 |            |

### Temperatures

|                     |                                                |                       |                |
|---------------------|------------------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C                                 | Operating temperature | -40 °C...70 °C |
| Humidity            | 40 °C / 93 % rel. humidity,<br>no condensation |                       |                |

### Rated data UL

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E224238 |
|-------------------------|---------|

### Control side

|                                |                       |                       |         |
|--------------------------------|-----------------------|-----------------------|---------|
| Coil resistance                | 777 $\Omega \pm 10\%$ | Power rating          | 768 mW  |
| Pull-in/drop-out voltage, typ. | 18 V / 2.4 V DC       | Rated control voltage | 24 V DC |
| Rated current DC               | 31.3 mA               |                       |         |

### Load side

|                                         |              |                            |              |
|-----------------------------------------|--------------|----------------------------|--------------|
| AC switching capacity (resistive), max. | 2500 VA      | Continuous current         | 10 A         |
| DC switching capacity (resistive), max. | 240 W @ 24 V | Inrush current             | 20 A / 20 ms |
| Max. switching frequency at rated load  | 0.1 Hz       | Max. switching voltage, AC | 400 V        |
| Min. switching power                    | 1 mA @ 1 V   | Rated switching voltage    | 250 V AC     |
| Switch-off delay                        | $\leq 10$ ms | Switch-on delay            | $\leq 15$ ms |

### Contact data

|              |                                                      |                         |                                               |
|--------------|------------------------------------------------------|-------------------------|-----------------------------------------------|
| Contact type | 3 CO contact without test button (AgNi 5 $\mu$ m Au) | Mechanical service life | DC coil 30 x 10 <sup>6</sup> switching cycles |
|--------------|------------------------------------------------------|-------------------------|-----------------------------------------------|

### General data

|                           |                |        |             |
|---------------------------|----------------|--------|-------------|
| Test button               | yes (lockable) | Colour | Transparent |
| UL 94 flammability rating | V-2            |        |             |

### Insulation coordination

|                                                |                                |                                              |                                |
|------------------------------------------------|--------------------------------|----------------------------------------------|--------------------------------|
| Creepage and clearance distance input – output | $\geq 4$ mm                    | Dielectric strength of neighbouring contacts | 2.5 kV <sub>eff</sub> / 1 Min. |
| Dielectric strength of open contact            | 1.2 kV <sub>eff</sub> / 1 min. | Dielectric strength, Input/Output            | 2.5 kV <sub>eff</sub> / 1 Min. |
| Impulse withstand voltage                      | 5 kV (1.2/50 $\mu$ s)          | Insulating material group                    | IIIa                           |
| Pollution severity                             | 2                              | Protection degree                            | IP20                           |
| Rated voltage                                  | 250 V                          | Surge voltage category                       | III                            |

### Further details of approvals / standards

|                       |             |                         |                |
|-----------------------|-------------|-------------------------|----------------|
| Standards             | IEC 61810-1 | Certificate No. (CSA)   | 249409-2426937 |
| Certificate No. (VDE) | 40011762    | Certificate No. (cURus) | E224238        |

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## Technical data

## Connection data

|                        |                    |
|------------------------|--------------------|
| Wire connection method | Plug-in connection |
|------------------------|--------------------|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | 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 |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E224238 |

## Downloads

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                            |

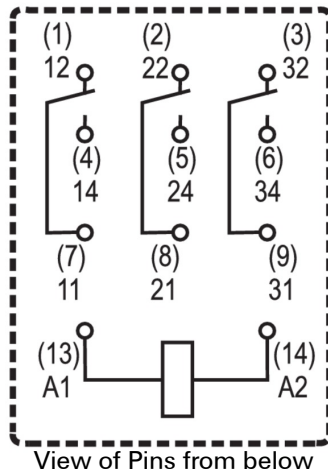
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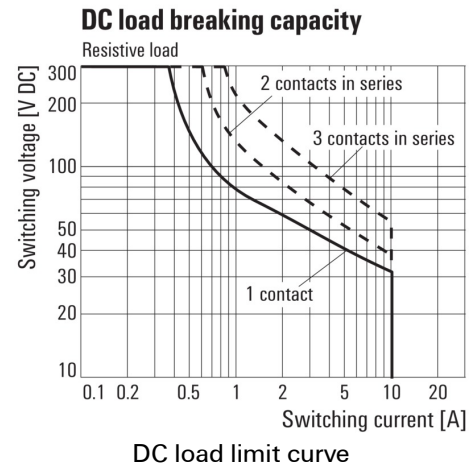
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## Drawings

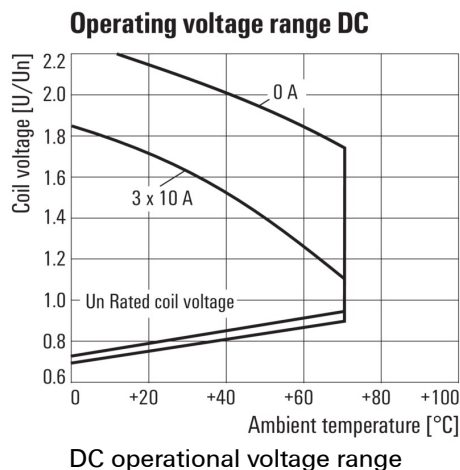
### Wiring diagram



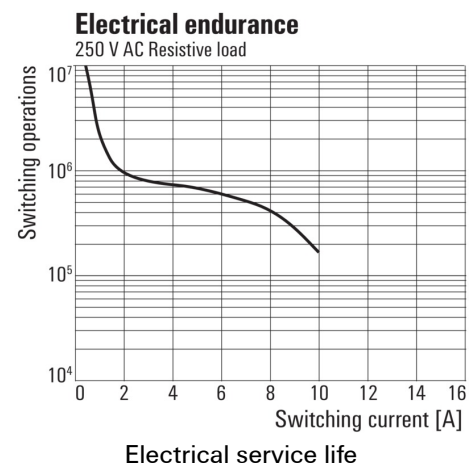
### Graph



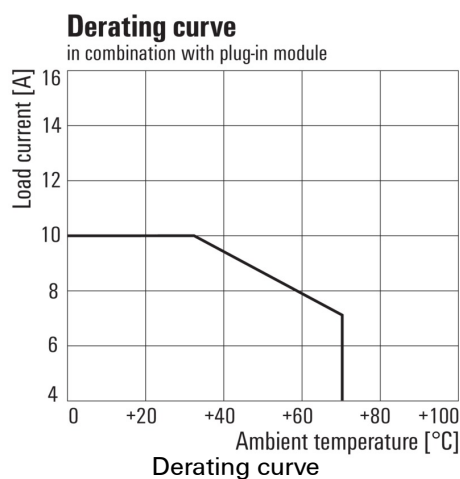
### Graph



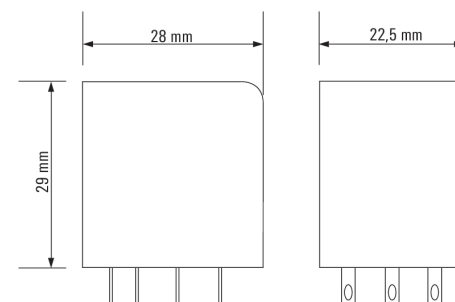
### Graph



### Graph



### Dimensional drawing



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## Drawings

## Miscellaneous

|                                    |  | RCM |  |  |  |  |                          |                  |
|------------------------------------|--|-----|--|--|--|--|--------------------------|------------------|
| Type                               |  |     |  |  |  |  | Coil voltage             | with LED + diode |
| RIDER Control Multiple             |  |     |  |  |  |  | 006 6 V DC               | L06              |
| Type of contact                    |  |     |  |  |  |  | 012 12 V DC              | L12 AB2          |
| 2 2CO                              |  |     |  |  |  |  | 024 24 V DC              | L24 AC4          |
| 3 3CO                              |  |     |  |  |  |  | 048 48 V DC              | L48 AE8          |
| 5 4CO                              |  |     |  |  |  |  | 060 60 V DC              | L60              |
| Contact material                   |  |     |  |  |  |  | 110 110 V DC             | M10 BB0          |
| 7 AgNi 90/10 with test button      |  |     |  |  |  |  | 220 220 V DC             | N20              |
| 8 AgNi 90/10 hgp, with test button |  |     |  |  |  |  | 506 6 V AC               | R06              |
|                                    |  |     |  |  |  |  | 512 12 V AC              | R12              |
|                                    |  |     |  |  |  |  | 524 24 V AC              | R24              |
|                                    |  |     |  |  |  |  | 548 48 V AC              | R48              |
|                                    |  |     |  |  |  |  | 615 115 V AC             | S15              |
|                                    |  |     |  |  |  |  | 730 230 V AC             | T30              |
|                                    |  |     |  |  |  |  | Type of construction     |                  |
|                                    |  |     |  |  |  |  | 0 Standard, 2,8mm Faston |                  |

Type codes