

**RCM570024****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Individual relays within the RIDERSERIES RCM

- 4 CO contacts
- Optional AC or DC coils
- With test button

**General ordering data**

|            |                                                                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | RIDERSERIES RCM, Relay, Number of contacts: 4, CO contact AgNi, Rated control voltage: 24 V DC, Continuous current: 6 A, Plug-in connection, Test button available: Yes |
| Order No.  | <a href="#">8690200000</a>                                                                                                                                              |
| Type       | RCM570024                                                                                                                                                               |
| GTIN (EAN) | 4032248360833                                                                                                                                                           |
| Qty.       | 10 pc(s).                                                                                                                                                               |

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Catalogue status 22.10.2021 / 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 |
| Width      | 22.5 mm | Width (inches)  | 0.886 inch |
| Net weight | 29.9 g  |                 |            |

### Temperatures

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

### Probability of failure

|     |                            |
|-----|----------------------------|
| B10 | 150.000 AC15:<br>250Vac/4A |
|-----|----------------------------|

### Rated data UL

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

### Control side

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

### Load side

|                                         |                                                                                      |                                         |                                         |
|-----------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|
| Rated switching voltage                 | 250 V AC                                                                             | Continuous current                      | 6 A                                     |
| Max. switching frequency at rated load  | 0.1 Hz                                                                               | Min. switching power                    | 1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V |
| Inrush current                          | 12 A / 20 ms                                                                         | AC switching capacity (resistive), max. | 1500 VA                                 |
| DC switching capacity (resistive), max. | 144 W @ 24 V                                                                         | Switch-on delay                         | $\leq 15$ ms                            |
| Switch-off delay                        | $\leq 10$ ms                                                                         | Contact type                            | 4 CO contact (AgNi)                     |
| Mechanical service life                 | AC coil $20 \times 10^6$ switching cycles, DC coil $30 \times 10^6$ switching cycles |                                         |                                         |

### General data

|                       |             |                                      |     |
|-----------------------|-------------|--------------------------------------|-----|
| Test button available | Yes         | Mechanical switch position indicator | Yes |
| Colour                | Transparent | UL 94 flammability rating            | V-2 |

### Insulation coordination

|                                                               |                             |                                                  |                                |
|---------------------------------------------------------------|-----------------------------|--------------------------------------------------|--------------------------------|
| Rated voltage                                                 | 250 V                       | Pollution severity                               | 2                              |
| Surge voltage category                                        | III                         | Insulating material group                        | IIIa                           |
| Clearance and creepage distances for control side - load side | $\geq 4$ mm                 | Dielectric strength for control side - load side | 2.5 kV <sub>eff</sub> / 1 Min. |
| Dielectric strength of neighbouring contacts                  | 2 kV <sub>eff</sub> / 1 min | Dielectric strength of open contact              | 1.2 kV <sub>eff</sub> / 1 min. |
| Impulse withstand voltage                                     | 5 kV (1.2/50 $\mu$ s)       | Protection degree                                | IP20                           |

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## Technical data

## Further details of approvals / standards

|                       |                    |                         |                |
|-----------------------|--------------------|-------------------------|----------------|
| Standards             | IEC 61810-1, UL508 | Certificate No. (CSA)   | 249409-2426937 |
| Certificate No. (VDE) | 40011762           | Certificate No. (cURus) | E224238        |

## Connection data

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

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ETIM 8.0    | 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="#">STEP</a>                                                    |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                            |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |
| Brochures                                   |                                                                         |

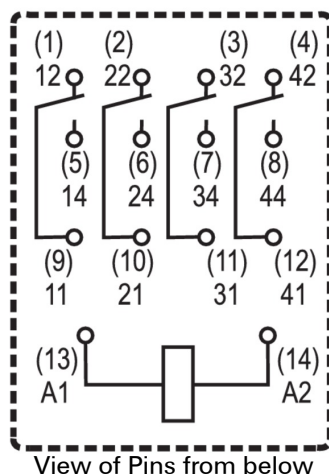
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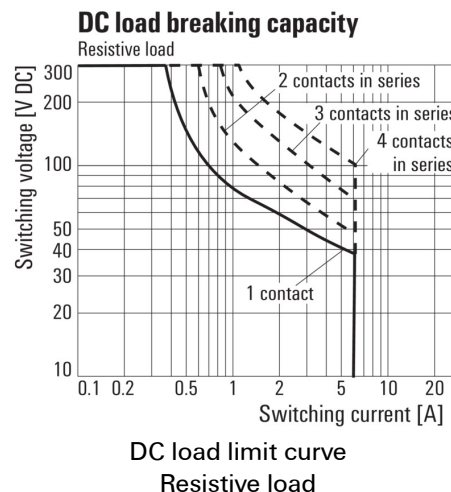
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## Drawings

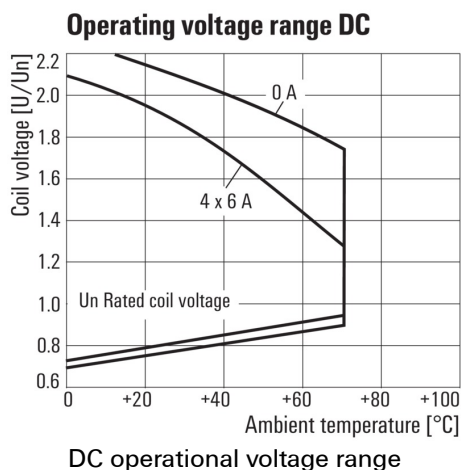
### Wiring diagram



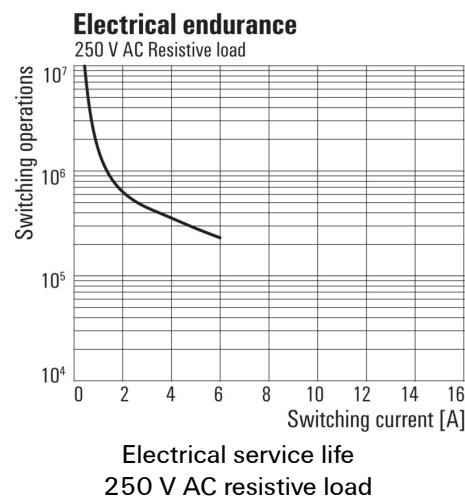
### Graph



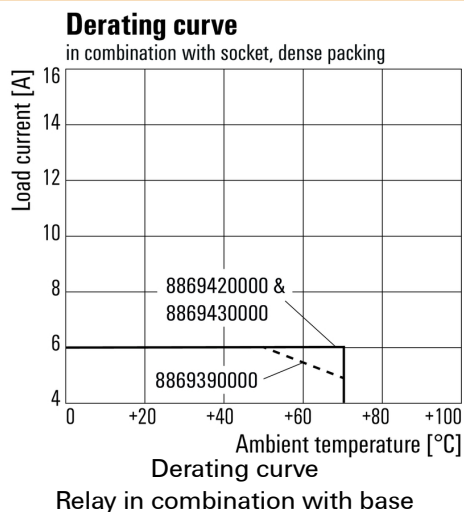
### Graph



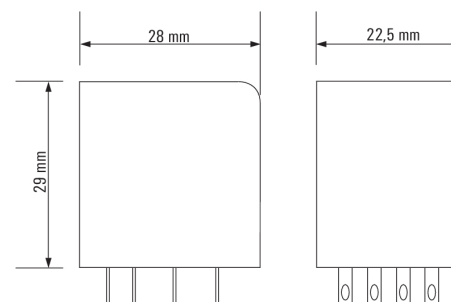
### Graph



### Graph



### Dimensional drawing



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## Drawings

## Miscellaneous

| Type                               | RCM |  |  |  |  |  | Coil voltage             | with LED | 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