

**RCM570L24****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Similar to illustration

Individual relays within the RIDERSERIES RCM

- 4 CO contacts
- Optional AC or DC coils
- With test button and integrated status LED

**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="#">8690220000</a>                                                                                                                                              |
| Type       | RCM570L24                                                                                                                                                               |
| GTIN (EAN) | 4032248360840                                                                                                                                                           |
| Qty.       | 10 pc(s).                                                                                                                                                               |

Creation date September 14, 2022 7:00:26 PM CEST

Catalogue status 09.09.2022 / 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 | 28.39 g |                 |            |

## 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

|                       |                       |                                |                 |
|-----------------------|-----------------------|--------------------------------|-----------------|
| Rated control voltage | 24 V DC               | Rated current DC               | 31.6 mA         |
| Power rating          | 759 mW                | Pull-in/drop-out voltage, typ. | 18 V / 2.4 V DC |
| Coil resistance       | 777 $\Omega \pm 10\%$ | Coil tolerance                 | 10 %            |
| Status indicator      | red LED               |                                |                 |

## Load side

|                                         |                                            |                                         |                                                                                            |
|-----------------------------------------|--------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------|
| Rated switching voltage                 | 240 V AC                                   | Continuous current                      | 6 A                                                                                        |
| Max. switching frequency at rated load  | 0.1 Hz                                     | 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<br>cycles, DC coil $30 \times 10^6$<br>switching cycles |
| Min. switching power                    | 1 mA @ 24 V, 10 mA @ 12<br>V, 100 mA @ 5 V |                                         |                                                                                            |

## General data

|                                      |     |                        |                                                |
|--------------------------------------|-----|------------------------|------------------------------------------------|
| Test button available                | Yes | Version of test button | Lockable test button,<br>Momentary test button |
| 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<br>control side - load side | $\geq 4$ mm                 | Dielectric strength for control side - load<br>side | 2.5 kV <sub>eff</sub> / 1 Min. |
| Dielectric strength of neighbouring<br>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                           |

## Further details of approvals / standards

|                       |                    |                         |                |
|-----------------------|--------------------|-------------------------|----------------|
| Standards             | IEC 61810-1, UL508 | 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    |
| 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 | ECLASS 12.0 | 27-37-16-01 |

## Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E224238    |

## Downloads

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                         |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                            |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |
| Brochures                                   |                                                                         |

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Klingenbergstraße 26

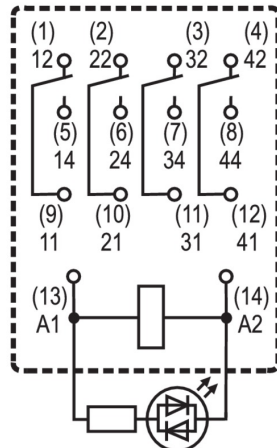
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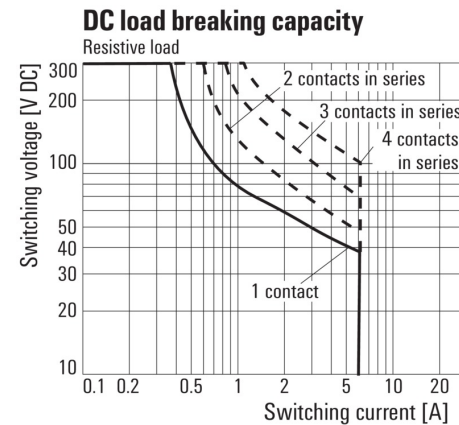
## Drawings

## Wiring diagram

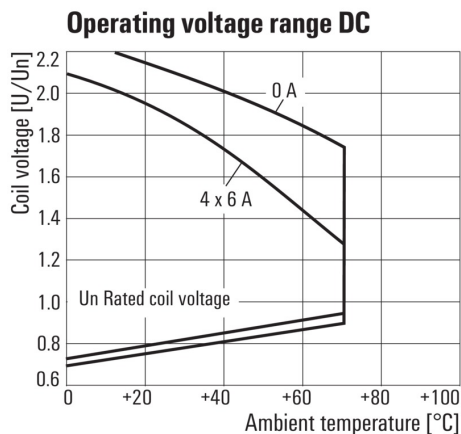


View of Pins from below

## Graph

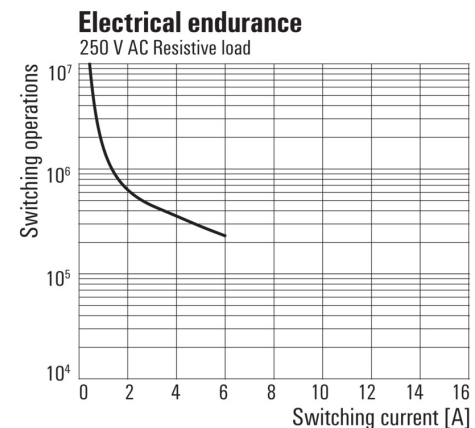
DC load limit curve  
Resistive load

## Graph

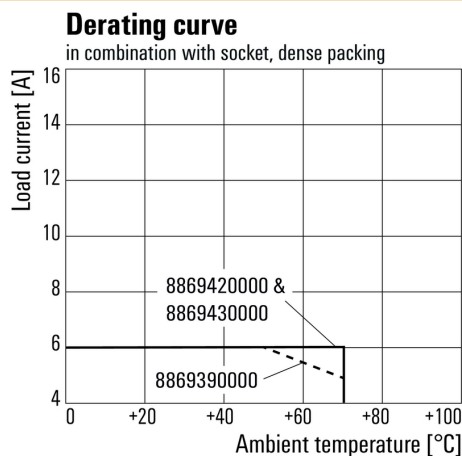


DC operational voltage range

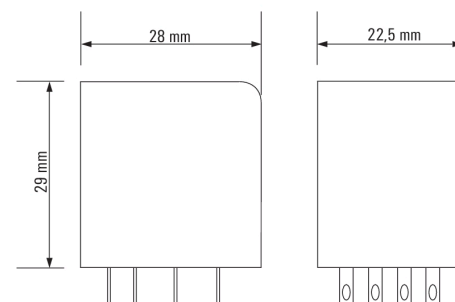
## Graph

Electrical service life  
250 V AC resistive load

## Graph

Derating curve  
Relay in combination with base

## Dimensional drawing



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## Drawings

## Miscellaneous

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