

**RCM270024****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

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

**General ordering data**

|            |                                                                                                                                                                          |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | RIDERSERIES RCM, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V DC, Continuous current: 12 A, Plug-in connection, Test button available: Yes |
| Order No.  | <a href="#">8689860000</a>                                                                                                                                               |
| Type       | RCM270024                                                                                                                                                                |
| GTIN (EAN) | 4032248360536                                                                                                                                                            |
| Qty.       | 10 pc(s).                                                                                                                                                                |

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Catalogue status 14.01.2022 / 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 | 26.815 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 | 410.000 AC15:<br>250Vac/5A |
|-----|----------------------------|

### Rated data UL

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

### Control side

|                       |                       |                                |                 |
|-----------------------|-----------------------|--------------------------------|-----------------|
| Rated control voltage | 24 V DC               | Rated current DC               | 30.9 mA         |
| Power rating          | 741 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                      | 12 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                          | 24 A / 20 ms                                                                         | AC switching capacity (resistive), max. | 3000 VA                                 |
| DC switching capacity (resistive), max. | 288 W @ 24 V                                                                         | Switch-on delay                         | $\leq 15$ ms                            |
| Switch-off delay                        | $\leq 10$ ms                                                                         | Contact type                            | 2 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                  | 2.5 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="#">CAD data – STEP</a>                                         |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                            |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |
| Brochures                                   |                                                                         |

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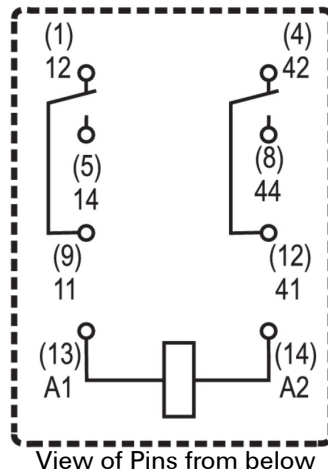
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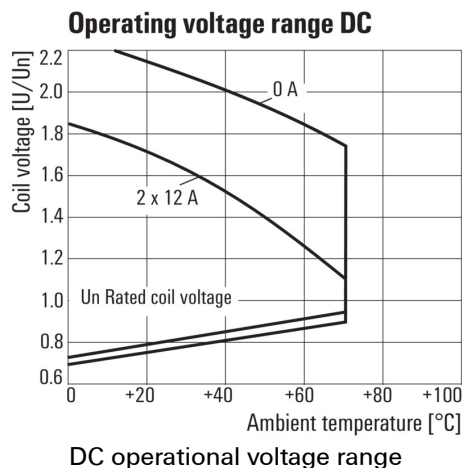
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## Drawings

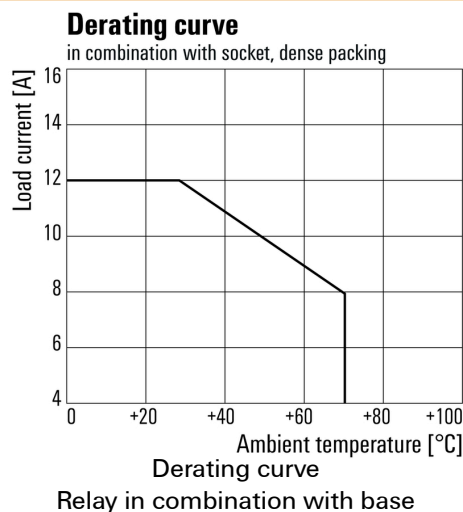
## Wiring diagram



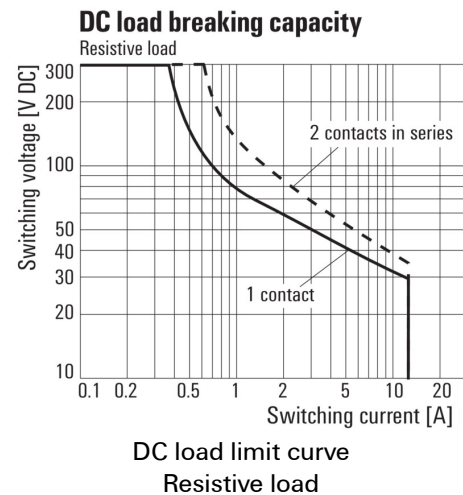
## Graph



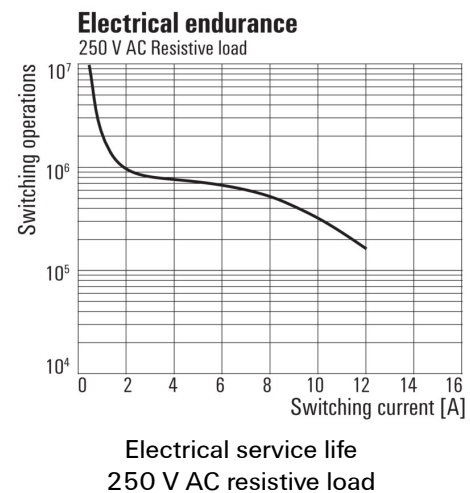
## Graph



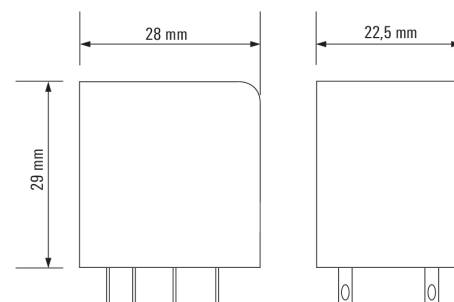
## Graph



## Graph



## Dimensional drawing



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## Accessories

## Cross-connection for socket with screw connection

Cross-connection for the sockets in the D-SERIES DRM.



## General ordering data

|            |                            |                                  |
|------------|----------------------------|----------------------------------|
| Type       | SCM-I QV S                 | Version                          |
| Order No.  | <a href="#">1132080000</a> | RIDERSERIES RCM, Cross-connector |
| GTIN (EAN) | 4032248912193              |                                  |
| Qty.       | 10 pc(s).                  |                                  |

## Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

## General ordering data

|            |                            |                                                   |
|------------|----------------------------|---------------------------------------------------|
| Type       | ESG 9/26 SCM-I MC NE WS    | Version                                           |
| Order No.  | <a href="#">2558330000</a> | ESG, Device markers x 26 mm, PA 66, Colour: white |
| GTIN (EAN) | 4050118569049              |                                                   |
| Qty.       | 80 pc(s).                  |                                                   |

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## Accessories

## Protection module



Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- Optional with free-wheeling diode, protective varistor, load resistor or RC filter

## General ordering data

|            |                            |                                                                    |
|------------|----------------------------|--------------------------------------------------------------------|
| Type       | RIM-I 1 6/230V             | Version                                                            |
| Order No.  | <a href="#">8869580000</a> | RIDERSERIES, Free-wheeling diode, Rated control voltage: 6...230 V |
| GTIN (EAN) | 4032248614523              | DC, Plug-in connection                                             |
| Qty.       | 10 pc(s).                  |                                                                    |

## Sockets



relays sockets for RIDERSERIES RCM relays

- 2, 3 and 4 CO contacts
- Screw and PUSH IN connection
- Standard and low heights

## General ordering data

|            |                            |                                                                   |
|------------|----------------------------|-------------------------------------------------------------------|
| Type       | SCM-I 4CO                  | Version                                                           |
| Order No.  | <a href="#">8869420000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614271              | Continuous current: 6 A, Screw connection                         |
| Qty.       | 10 pc(s).                  |                                                                   |
| Type       | SCM-I 4CO N                | Version                                                           |
| Order No.  | <a href="#">8869390000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614257              | Continuous current: 6 A, Screw connection                         |
| Qty.       | 10 pc(s).                  |                                                                   |
| Type       | SCM-I 4CO P                | Version                                                           |
| Order No.  | <a href="#">8869430000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614288              | Continuous current: 6 A, PUSH IN                                  |
| Qty.       | 10 pc(s).                  |                                                                   |
| Type       | SCM-I 2CO                  | Version                                                           |
| Order No.  | <a href="#">8869400000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 4032248614264              | Continuous current: 12 A, Screw connection                        |
| Qty.       | 10 pc(s).                  |                                                                   |
| Type       | SCM-I 2CO P                | Version                                                           |
| Order No.  | <a href="#">8876220000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 4032248609031              | Continuous current: 12 A, PUSH IN                                 |
| Qty.       | 10 pc(s).                  |                                                                   |

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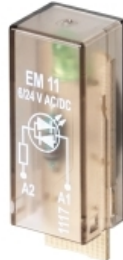
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## Accessories

## LED



Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- Optional with green or red LED
- For UC supply voltage

## General ordering data

|            |                            |                                                                      |
|------------|----------------------------|----------------------------------------------------------------------|
| Type       | RIM-I 3 24/60VUC           | Version                                                              |
| Order No.  | <a href="#">8869610000</a> | RIDERSERIES, LED module, Rated control voltage: 24...60 V UC, Plug-  |
| GTIN (EAN) | 4032248614554              | in connection                                                        |
| Qty.       | 10 pc(s).                  |                                                                      |
| Type       | RIM-I 3 6/24VUC            | Version                                                              |
| Order No.  | <a href="#">8869630000</a> | RIDERSERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in |
| GTIN (EAN) | 4032248614578              | connection                                                           |
| Qty.       | 10 pc(s).                  |                                                                      |
| Type       | RIM-I 3 6/24VUC GN         | Version                                                              |
| Order No.  | <a href="#">8869640000</a> | RIDERSERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in |
| GTIN (EAN) | 4032248614585              | connection                                                           |
| Qty.       | 10 pc(s).                  |                                                                      |
| Type       | RIM-I 3 24/60VUC GN        | Version                                                              |
| Order No.  | <a href="#">8869620000</a> | RIDERSERIES, LED module, Rated control voltage: 24...60 V UC, Plug-  |
| GTIN (EAN) | 4032248614561              | in connection                                                        |
| Qty.       | 10 pc(s).                  |                                                                      |

## LED / Free-wheel diode



Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- Optional with green or red LED
- With free-wheeling diode
- For DC supply voltage

## General ordering data

|            |                            |                                                             |
|------------|----------------------------|-------------------------------------------------------------|
| Type       | RIM-I 2 6/24VDC            | Version                                                     |
| Order No.  | <a href="#">8869590000</a> | RIDERSERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 4032248614530              | voltage: 6...24 V DC, Plug-in connection                    |
| Qty.       | 10 pc(s).                  |                                                             |
| Type       | RIM-I 2 6/24VDC GN         | Version                                                     |
| Order No.  | <a href="#">8869600000</a> | RIDERSERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 4032248614547              | voltage: 6...24 V DC, Plug-in connection                    |
| Qty.       | 10 pc(s).                  |                                                             |

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## Accessories

|            |                            |                                                             |
|------------|----------------------------|-------------------------------------------------------------|
| Type       | RIM-I 2 24/60VDC GN        | Version                                                     |
| Order No.  | <a href="#">8869680000</a> | RIDERSERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 40322486 146 15            | voltage: 24...60 V DC, Plug-in connection                   |
| Qty.       | 10 pc(s).                  |                                                             |

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|            |                            |                                                             |
|------------|----------------------------|-------------------------------------------------------------|
| Type       | RIM-I 2 24/60VDC           | Version                                                     |
| Order No.  | <a href="#">8869670000</a> | RIDERSERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 40322486 146 08            | voltage: 24...60 V DC, Plug-in connection                   |
| Qty.       | 10 pc(s).                  |                                                             |

## ESG 6/17

**Guaranteed long service life: ESG**

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

**Your benefits with MultiMark**

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

## General ordering data

|            |                            |                                       |
|------------|----------------------------|---------------------------------------|
| Type       | ESG 6/17 MM WS             | Version                               |
| Order No.  | <a href="#">2005100000</a> | ESG, Device markers, 6 x 17 mm, white |
| GTIN (EAN) | 4050118390728              |                                       |
| Qty.       | 3,000 pc(s).               |                                       |

## Cross-connection for socket with PUSH IN connection



Cross-connection for the sockets in the RIDERSERIES RCM

## General ordering data

|            |                            |                                  |
|------------|----------------------------|----------------------------------|
| Type       | SCM-I QV P                 | Version                          |
| Order No.  | <a href="#">8870850000</a> | RIDERSERIES RCM, Cross-connector |
| GTIN (EAN) | 4032248631698              |                                  |
| Qty.       | 10 pc(s).                  |                                  |



## RCM270024

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## Accessories

## Protective varistor



Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- With protective varistor
- For UC supply voltage

## General ordering data

|            |                            |                                                                         |
|------------|----------------------------|-------------------------------------------------------------------------|
| Type       | RIM-I 4 24VUC VAR          | Version                                                                 |
| Order No.  | <a href="#">8869710000</a> | RIDERSERIES, Protective varistor, Rated control voltage: 24 V UC, Plug- |
| GTIN (EAN) | 4032248606344              | in connection                                                           |
| Qty.       | 10 pc(s).                  |                                                                         |

## ESG 6/15



## Guaranteed long service life: ESG

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

## Your benefits with MultiMark

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

## General ordering data

|            |                            |                                       |
|------------|----------------------------|---------------------------------------|
| Type       | ESG 6/15 MM WS             | Version                               |
| Order No.  | <a href="#">2619940000</a> | ESG, Device markers, 6 x 15 mm, white |
| GTIN (EAN) | 4050118626148              |                                       |
| Qty.       | 3,000 pc(s).               |                                       |

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Retaining clips**

Retaining clip for RIDERSERIES RCM relays

- Metal and plastic retaining clip

**General ordering data**

|            |                            |                                 |
|------------|----------------------------|---------------------------------|
| Type       | SCM-I CLIP N               | Version                         |
| Order No.  | <a href="#">8875620000</a> | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248608577              |                                 |
| Qty.       | 10 pc(s).                  |                                 |
| Type       | SCM-I CLIP M               | Version                         |
| Order No.  | <a href="#">8869450000</a> | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248614301              |                                 |
| Qty.       | 10 pc(s).                  |                                 |
| Type       | SCM-I CLIP P               | Version                         |
| Order No.  | <a href="#">8869440000</a> | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248614295              |                                 |
| Qty.       | 10 pc(s).                  |                                 |

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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

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