

RCM270L48**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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 and integrated status LED

General ordering data

| | |
|------------|--|
| Version | RIDERSERIES RCM, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 48 V DC, Continuous current: 12 A, Plug-in connection, Test button available: Yes |
| Order No. | 8689890000 |
| Type | RCM270L48 |
| GTIN (EAN) | 4032248360567 |
| Qty. | 10 pc(s). |

Creation date June 1, 2024 2:45:18 PM CEST

Catalogue status 18.05.2024 / 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 | 29.3 g | | |

Temperatures

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

Rated data UL

| | |
|-------------------------|---------|
| Certificate No. (cURus) | E522350 |
|-------------------------|---------|

Control side

| | | | |
|-----------------------|---------|------------------|-------------------------|
| Rated control voltage | 48 V DC | Rated current DC | 16.4 mA |
| Power rating | 788 mW | Coil resistance | 3072 $\Omega \pm 10 \%$ |
| Coil tolerance | 10 % | Status indicator | red LED |

Load side

| | | | |
|---|--|---|--|
| Rated switching voltage | 240 V AC | Continuous current | 12 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, AC | 250 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 | ≤ 15 ms |
| Switch-off delay | ≤ 10 ms | Contact type | 2 CO contact (AgNi) |
| Mechanical service life | AC coil 20×10^6 switching cycles, DC coil 30×10^6 switching cycles | Min. switching power | 1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V |

General data

| | | | |
|--------------------------------------|-----|------------------------|--|
| Test button available | Yes | Version of test button | Lockable test button, Mo- mentary 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 control side - load side | ≥ 4 mm | Dielectric strength for control side - load side | 2.5 kV _{eff} / 1 Min. |
| Dielectric strength of neighbouring con- tacts | 2.5 kV _{eff} / 1 Min. | Dielectric strength of open contact | 1.2 kV _{eff} / 1 min. |
| Impulse withstand voltage | 5 kV (1.2/50 μ s) | Protection degree | IP20 |

Further details of approvals / standards

| | | | |
|-------------------------|----------------|-----------------------|----------|
| Certificate No. (CSA) | 249409-2426937 | Certificate No. (VDE) | 40011762 |
| Certificate No. (cURus) | E522350 | | |

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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 | ETIM 9.0 | 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 | ECLASS 13.0 | 27-37-16-01 |

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E522350 |

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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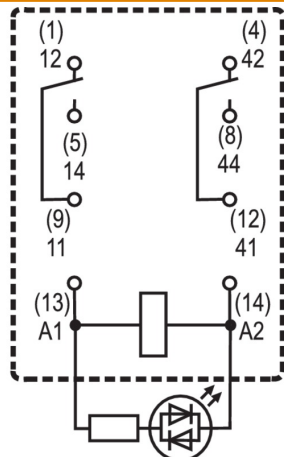
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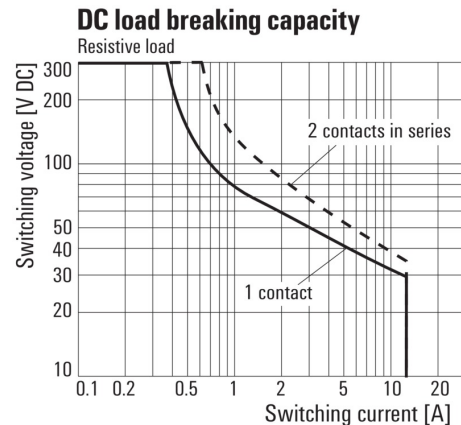
Drawings

Wiring diagram

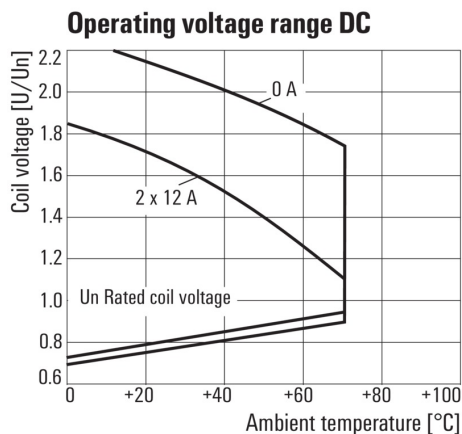


View of Pins from below

Graph

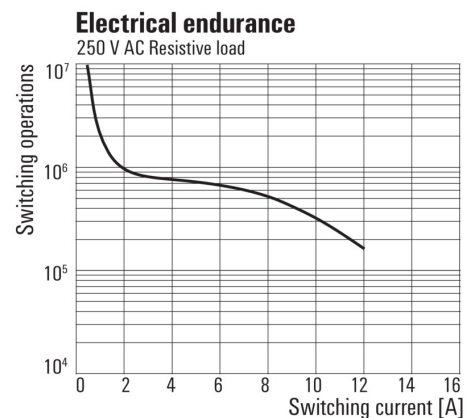
DC load limit curve
Resistive load

Graph

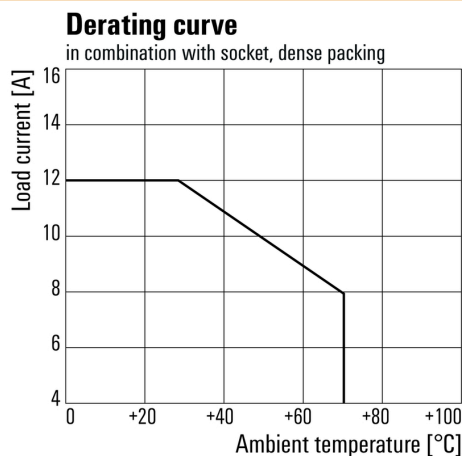


DC operational voltage range

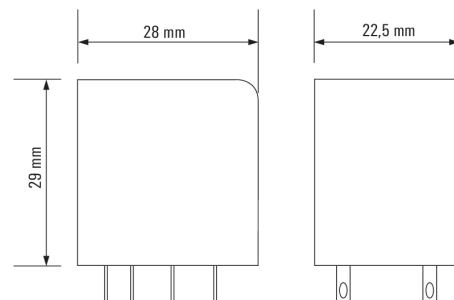
Graph

Electrical service life
250 V AC resistive load

Graph

Derating curve
Relay in combination with base

Dimensional drawing



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Accessories

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. | 2619940000 | ESG, Device markers, 6 x 15 mm, white |
| GTIN (EAN) | 4050118626148 | |
| Qty. | 3,000 pc(s). | |

Retaining clips

Retaining clip for RIDERSERIES RCM relays

- Metal and plastic retaining clip

General ordering data

| | | |
|------------|----------------------------|---------------------------------|
| Type | SCM-I CLIP P | Version |
| Order No. | 8869440000 | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248614295 | |
| Qty. | 10 pc(s). | |
| Type | SCM-I CLIP N | Version |
| Order No. | 8875620000 | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248608577 | |
| Qty. | 10 pc(s). | |
| Type | SCM-I CLIP M | Version |
| Order No. | 8869450000 | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248614301 | |
| Qty. | 10 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. | 8869580000 | RIDERSERIES, Free-wheeling diode, Rated control voltage: 6...230 V |
| GTIN (EAN) | 4032248614523 | DC, Plug-in connection |
| Qty. | 10 pc(s). | |

ESG 6/17

**Guaranteed long service life: ESG**

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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. | 2005100000 | ESG, Device markers, 6 x 17 mm, white |
| GTIN (EAN) | 4050118390728 | |
| Qty. | 3,000 pc(s). | |

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www.weidmueller.com**Accessories****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. | 2558330000 | ESG, Device markers x 26 mm, PA 66, Colour: white |
| GTIN (EAN) | 4050118569049 | |
| Qty. | 80 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. | 8870850000 | RIDERSERIES RCM, Cross-connector |
| GTIN (EAN) | 4032248631698 | |
| Qty. | 10 pc(s). | |

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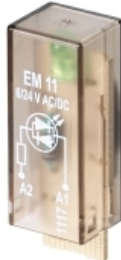
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Accessories

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 GN | Version |
|------------|----------------------------|---|
| Order No. | 8869620000 | RIDERSERIES, LED module, Rated control voltage: 24...60 V UC, Plug- |
| GTIN (EAN) | 4032248614561 | in connection |
| Qty. | 10 pc(s). | |
| Type | RIM-I 3 24/60VUC | Version |
| Order No. | 8869610000 | RIDERSERIES, LED module, Rated control voltage: 24...60 V UC, Plug- |
| GTIN (EAN) | 4032248614554 | 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 2CO P | Version |
|------------|----------------------------|---|
| Order No. | 8876220000 | RIDERSERIES RCM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 4032248609031 | Continuous current: 12 A, PUSH IN |
| Qty. | 10 pc(s). | |
| Type | SCM-I 4CO P | Version |
| Order No. | 8869430000 | 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. | 8869400000 | 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 4CO N | Version |
| Order No. | 8869390000 | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614257 | Continuous current: 6 A, Screw connection |
| Qty. | 10 pc(s). | |

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Accessories

| | | |
|------------|----------------------------|---|
| Type | SCM-I 4CO | Version |
| Order No. | 8869420000 | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614271 | Continuous current: 6 A, Screw 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 24/60VDC | Version |
| Order No. | 8869670000 | RIDERSERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 4032248614608 | voltage: 24...60 V DC, Plug-in connection |
| Qty. | 10 pc(s). | |

| | | |
|------------|----------------------------|---|
| Type | RIM-I 2 24/60VDC GN | Version |
| Order No. | 8869680000 | RIDERSERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 4032248614615 | voltage: 24...60 V DC, Plug-in connection |
| Qty. | 10 pc(s). | |

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. | 1132080000 | RIDERSERIES RCM, Cross-connector |
| GTIN (EAN) | 4032248912193 | |
| Qty. | 10 pc(s). | |

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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