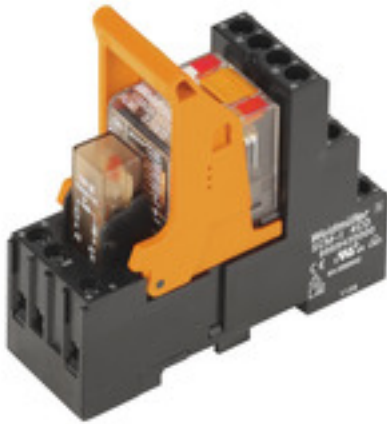


**RIDERSERIES RCM
RCMKIT-I 230VAC 4CO AU**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image

Similar to illustration

Modular system comprised of:

- relay socket for rail mounting
- LED indicator unit
- retaining clip
- plug-in relay
- markers

General ordering data

| | |
|------------|--|
| Type | RCMKIT-I 230VAC 4CO AU |
| Order No. | 2497120000 |
| Version | RIDERSERIES RCM, Relay module, Number of contacts: 4 CO contact with test button AgNi 5µm Au, Rated control voltage: 230 V AC, Continuous current: 6 A, Screw connection |
| GTIN (EAN) | 4050118508710 |
| Qty. | 10 pc(s). |

Creation date May 2, 2020 9:34:50 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

| | | | |
|------------|---------|-----------------|------------|
| Width | 27.2 mm | Width (inches) | 1.071 inch |
| Height | 77 mm | Height (inches) | 3.031 inch |
| Depth | 78.3 mm | Depth (inches) | 3.083 inch |
| Net weight | 97.45 g | | |

Temperatures

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

Environmental Product Compliance

| | |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

Input

| | | | |
|-----------------------|----------------|--------------------------------|-----------------|
| Rated control voltage | 230 V AC | Rated current AC | 4.3 mA |
| Power rating | 1.0 VA | Pull-in/drop-out voltage, typ. | 184 V / 69 V AC |
| Coil resistance | 19465 Ω ± 15 % | Status indicator | red LED |

Output

| | | | |
|---|----------|---|--------------|
| Rated switching voltage | 240 V AC | Max. switching voltage, AC | 240 V |
| Continuous current | 6 A | 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 | ≤ 15 ms | Min. switching power | 1 V / 1 mA |
| Max. switching frequency at rated load | 0.1 Hz | | |

Contact data

| | | | |
|--------------|--|-------------------------|--|
| Contact type | 4 CO contact with test button (AgNi 5µm Au) | Mechanical service life | AC coil 20 x 10 ⁶ switching cycles, DC coil 30 x 10 ⁶ switching cycles |
|--------------|--|-------------------------|--|

General data

| | | | |
|--------------------------------------|-------|-------------|----------------|
| Rail | TS 35 | Test button | yes (lockable) |
| Mechanical switch position indicator | Yes | Colour | black |

Insulation coordination

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

Further details of approvals / standards

| | | | |
|-----------|--------------|-------------------------|------------|
| Standards | DIN EN 50178 | Certificate No. (DNVGL) | TAA000011A |
|-----------|--------------|-------------------------|------------|

Creation date May 2, 2020 9:34:50 AM CEST

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Technical data**Connection data**

| | | | |
|---|---------------------|---|-------------------|
| Wire connection method | Screw connection | Stripping length, rated connection | 8 mm |
| Tightening torque, min. | 0.5 Nm | Tightening torque, max. | 0.7 Nm |
| Clamping range, rated connection | 2.5 mm ² | Clamping range, min. | 1 mm ² |
| Clamping range, max. | 2.5 mm ² | Wire cross-section, solid, min. | 1 mm ² |
| Wire cross-section, solid, max. | 2.5 mm ² | Wire connection cross-section, finely stranded, min. | 1 mm ² |
| Wire connection cross section, finely stranded, max. | 2.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 1 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 1 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 2.5 mm ² | Wire connection cross section, finely stranded, two clampable wires, min. | 1 mm ² |
| Wire cross-section, finely stranded, two clampable wires, max. | 1.5 mm ² | Blade size | size PZ1 |

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 | | |

Product information

Product information IP20 without connected conductor at complete opened clamping yoke connection.

Approvals

Approvals

**Downloads**

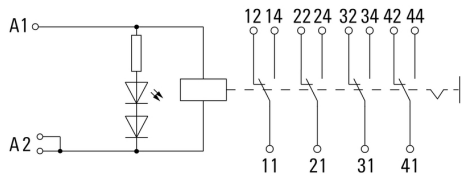
Engineering Data [STEP](#)

**RIDERSERIES RCM
RCMKIT-I 230VAC 4CO AU**

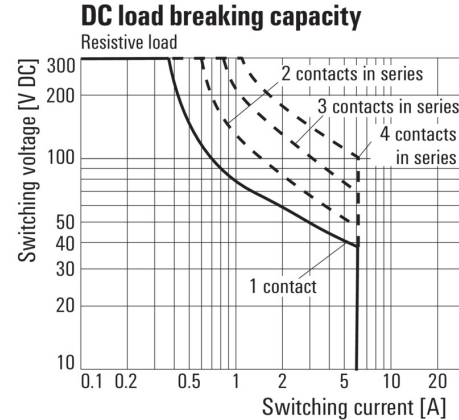
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Drawings

Wiring diagram

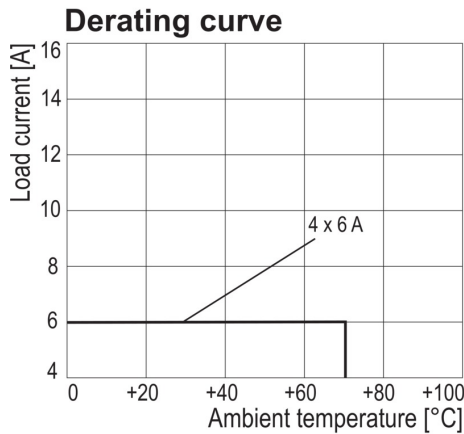


Graph



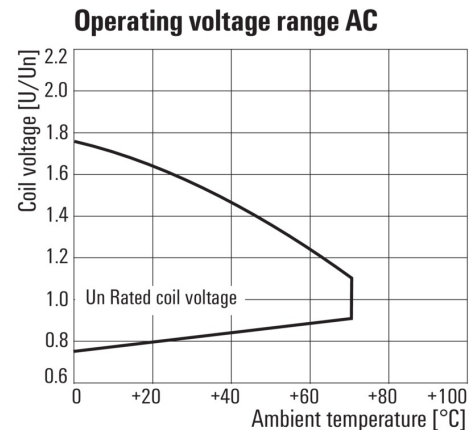
DC load limit curve
Resistive load

Graph



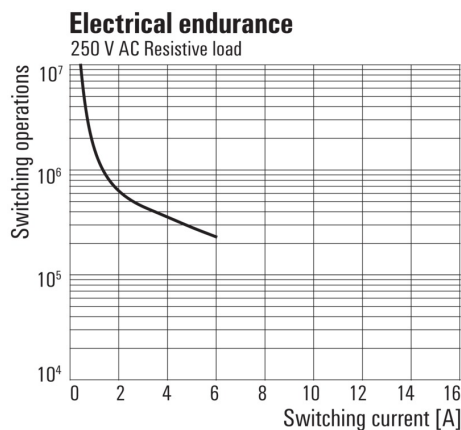
Derating curve
Relay in combination with base

Graph



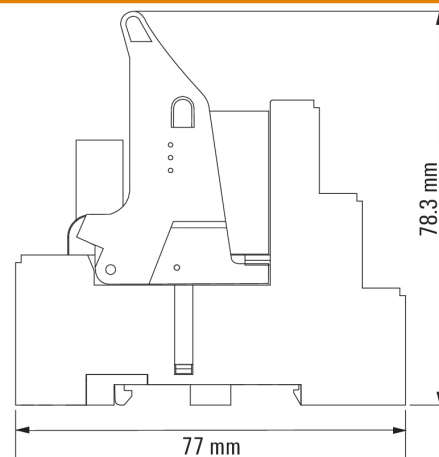
AC operational voltage range

Graph



Electrical service life 250 V AC resistive load
250 V AC resistive load

Dimensional drawing



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Accessories**Metal retaining clip**

Metal retaining clip for RIDERSERIES RCM relays

**General ordering data**

| | | |
|------------|----------------------------|---------------------------------|
| Type | SCM-I CLIP M | Version |
| Order No. | 8869450000 | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248614301 | |
| Qty. | 10 pc(s). | |

Crosshead screwdriver Pozidriv

VDE insulated crosshead screwdriver type Pozidriv SDIK PZ DIN 7438, ISO 8764/2-PZ, output to ISO 8764-PZ, SoftFinish grip

**General ordering data**

| | | |
|------------|----------------------------|----------------------------------|
| Type | SDIK PZ1 | Version |
| Order No. | 9008900000 | Screwdriver, Blade length: 80 mm |
| GTIN (EAN) | 4032248266685 | |
| Qty. | 1 pc(s). | |

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Accessories

Plastic retaining clip



Plastic retaining clip for RIDERSERIES RCM relays

General ordering data

| Type | SCM-I CLIP P | Version |
|------------|----------------------------|---------------------------------|
| Order No. | 8869440000 | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248614295 | |
| Qty. | 10 pc(s). | |

Crosshead screwdriver Pozidriv



Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip

General ordering data

| Type | SDK PZ1 | Version |
|------------|----------------------------|---|
| Order No. | 9008530000 | Screwdriver, Blade width (B): 4.5 mm, Blade length: 80 mm |
| GTIN (EAN) | 4032248056521 | |
| Qty. | 1 pc(s). | |

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Accessories**Cross-connection for base with PUSH IN connection**

Weidmüller RIDERSERIES relays guarantee a noise-free, decoupled signal transmission in industrial automation concepts.

The are compact, quickly installed and can be fitted in the tightest of spaces.

- 2, 3 or 4 CO contacts
- optionally: AC or DC coils
- Relay with test button and integrated status display and/or free-wheel diode
- Optionally with hard gold plated 4 CO contacts
- pluggable LED modules with protective functions
- Metal and plastic retaining clips
- Base with screw / PUSH IN connection

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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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 the following manufacturers:

- Siemens
- Télémecanique
- ABB
- Beckhoff
- Lumberg
- Tags for all-purpose usage; self-adhesive or clip-on tags, depending on the type

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.

Please note that these markers are not intended for printing with the SpeedMarking laser.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 6/17 K MC NE WS | Version |
| Order No. | 1880120000 | ESG, Device markers x 17 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478804 | |
| Qty. | 200 pc(s). | |
| Type | ESG 6/17 K MC NE GE | Version |
| Order No. | 1880110000 | ESG, Device markers x 17 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478798 | |
| Qty. | 200 pc(s). | |

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Accessories**Label (cannot be printed using PrintJet)**

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- 2, 3 or 4 CO contacts
- optionally: AC or DC coils
- Relay with test button and integrated status display and/or free-wheel diode
- Optionally with hard gold plated 4 CO contacts
- pluggable LED modules with protective functions
- Metal and plastic retaining clips
- Base with screw / PUSH IN connection

General ordering data

| Type | SCMH MARK | Version |
|------------|----------------------------|------------------------|
| Order No. | 8869460000 | RIDERSERIES RCM, Label |
| GTIN (EAN) | 4032248614417 | |
| Qty. | 10 pc(s). | |

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Accessories

Blank



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Please note that these markers are not intended for printing with the SpeedMarking laser.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 6/15 K MC NE WS | Version |
| Order No. | 1880100000 | ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478781 | |
| Qty. | 200 pc(s). | |
| Type | ESG 6/15 K MC NE GE | Version |
| Order No. | 1880130000 | ESG, Device markers x 15 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478910 | |
| Qty. | 200 pc(s). | |

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Accessories

Protection module



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

- Optionally with free-wheel diode, load resistor or RC filter

General ordering data

| | | |
|------------|----------------------------|---|
| Type | RIM-I 3 230VAC RC | Version |
| Order No. | 1172210000 | RIDERSERIES, RC filter, Rated control voltage: 230 V UC, Plug-in connection |
| GTIN (EAN) | 4032248964420 | |
| Qty. | 10 pc(s). | |
| Type | RIM-I 1 R 110/230V | Version |
| Order No. | 8870830000 | RIDERSERIES, Load, Rated control voltage: 110...230 V UC, Plug-in connection |
| GTIN (EAN) | 4032248631674 | |
| Qty. | 10 pc(s). | |
| Type | RIM-I 3 110/230VAC RC | Version |
| Order No. | 8869790000 | RIDERSERIES, RC filter, Rated control voltage: 110...230 V UC, Plug-in connection |
| GTIN (EAN) | 4032248606337 | |
| Qty. | 10 pc(s). | |
| Type | RIM-I 1 6/230V | Version |
| Order No. | 8869580000 | RIDERSERIES, Free-wheeling diode, Rated control voltage: 6...230 V DC, Plug-in connection |
| GTIN (EAN) | 4032248614523 | |
| Qty. | 10 pc(s). | |

Crosshead screwdriver, Pozidrive



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

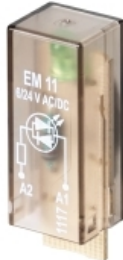
| | | |
|------------|----------------------------|------------------------------------|
| Type | SDIK PZ1 SL | Version |
| Order No. | 1274730000 | Mounting tool, Blade length: 80 mm |
| GTIN (EAN) | 4050118073225 | |
| Qty. | 1 pc(s). | |

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Accessories

LED



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

- With either green or red LED
- For UC supply voltage

General ordering data

| | | |
|------------|----------------------------|---|
| Type | RIM-I 3 110/230VUC | Version |
| Order No. | 8869650000 | RIDERSERIES, LED module, Rated control voltage: 110...230 V UC, |
| GTIN (EAN) | 4032248614592 | Plug-in connection |
| Qty. | 10 pc(s). | |

| | | |
|------------|----------------------------|---|
| Type | RIM-I 3 110/230VUC GN | Version |
| Order No. | 8869660000 | RIDERSERIES, LED module, Rated control voltage: 110...230 V UC, |
| GTIN (EAN) | 4032248614721 | Plug-in connection |
| Qty. | 10 pc(s). | |

LED / Protective varistor



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

- With protective varistor
- For UC supply voltage

General ordering data

| | | |
|------------|----------------------------|--|
| Type | RIM-I 4 230VUC VAR | Version |
| Order No. | 8869750000 | RIDERSERIES, Protective varistor, Rated control voltage: 230 V UC, |
| GTIN (EAN) | 4032248606368 | Plug-in connection |
| Qty. | 10 pc(s). | |