

**RIDERSERIES RCI
RCI484524**

Weidmüller Interface GmbH & Co. KG
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Germany
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Product image

Similar to illustration

Standard relay within the RIDERSERIES RCI.

- 2 CO contacts
- optionally: AC or DC coils
- Relay with test button

General ordering data

| | |
|------------|--|
| Type | RCI484524 |
| Order No. | 8870060000 |
| Version | RIDERSERIES RCI, Relay, Number of contacts: 2 CO contact with test button AgNi 90/10, Rated control voltage: 24 V AC, Continuous current: 8 A, Plug-in connection |
| GTIN (EAN) | 4032248613434 |
| Qty. | 10 pc(s). |

Creation date May 1, 2020 5:58:43 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 | 13 mm | Width (inches) | 0.512 inch |
| Height | 29 mm | Height (inches) | 1.142 inch |
| Depth | 26.7 mm | Depth (inches) | 1.051 inch |
| Net weight | 16.6 g | | |

Temperatures

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

Rated data UL

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

Input

| | | | |
|-----------------------|--------------|--------------------------------|-----------------|
| Rated control voltage | 24 V AC | Rated current AC | 31.6 mA |
| Power rating | 0.75 VA | Pull-in/drop-out voltage, typ. | 18 V / 3.6 V AC |
| Coil resistance | 350 Ω ± 10 % | | |

Output

| | | | |
|---|---|---|--------------|
| Rated switching voltage | 240 V AC | Max. switching voltage, AC | 400 V |
| Continuous current | 8 A | Inrush current | 15 A / 4 s |
| AC switching capacity (resistive), max. | 2000 VA | DC switching capacity (resistive), max. | 192 W @ 24 V |
| Switch-on delay | ≤ 10 ms | Switch-off delay | ≤ 6 ms |
| Min. switching power | 1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V | Max. switching frequency at rated load | 0.1 Hz |

Contact data

| | | | |
|--------------|--|-------------------------|---|
| Contact type | 2 CO contact with test button (AgNi 90/10) | Mechanical service life | AC coil 5 x 10 ⁶ switching cycles, DC coil 10 x 10 ⁶ switching cycles |
|--------------|--|-------------------------|---|

General data

| | | | |
|-------------|--|--------------------------------------|-----|
| Test button | yes (lockable, just when removing the detent lock) | Mechanical switch position indicator | Yes |
| Colour | Transparent | UL 94 flammability rating | V-2 |

Insulation coordination

| | | | |
|--|--------------------------------|--|-----------------------------|
| Rated voltage | 250 V | Surge voltage category | III |
| Pollution severity | 2 | Insulating material group | IIIa |
| Dielectric strength, Input/Output | 5 kV _{eff} / 1min | Creepage and clearance distance input - output | ≥ 8 mm |
| Dielectric strength of neighbouring contacts | 2.5 kV _{eff} / 1 Min. | Dielectric strength of open contact | 1 kV _{eff} / 1 min |
| Impulse withstand voltage | 5 kV (1.2/50 μs) | | |

Data sheet

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Technical data

Further details of approvals / standards

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

Connection data

| | | | |
|------------------------|--------------------|-----------------|------|
| Wire connection method | Plug-in connection | Pitch in mm (P) | 5 mm |
|------------------------|--------------------|-----------------|------|

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 | UNSPSC | 30-21-19-17 |

Approvals

Approvals



ROHS Conform

Downloads

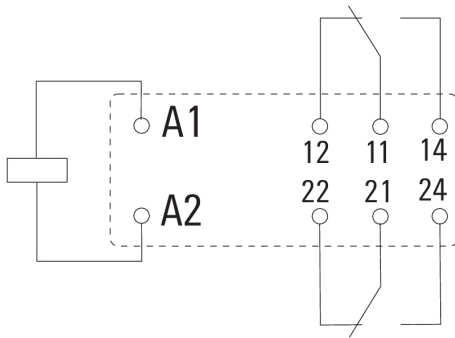
| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Brochure/Catalogue | CAT 4.2 ELECTR 18/19 EN |
| Engineering Data | EPLAN, WSCAD |
| Engineering Data | STEP |

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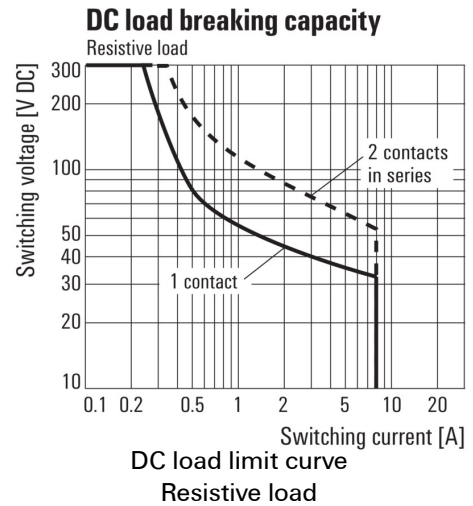
Drawings

Wiring diagram

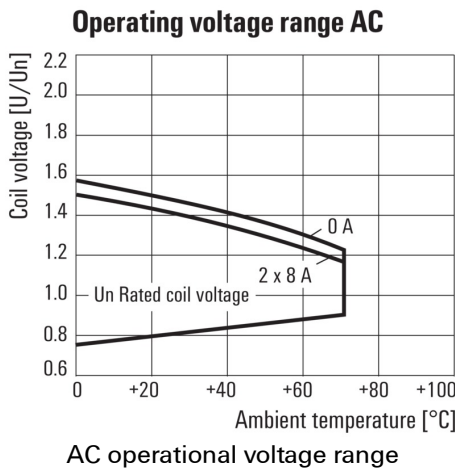


View of Pins from below

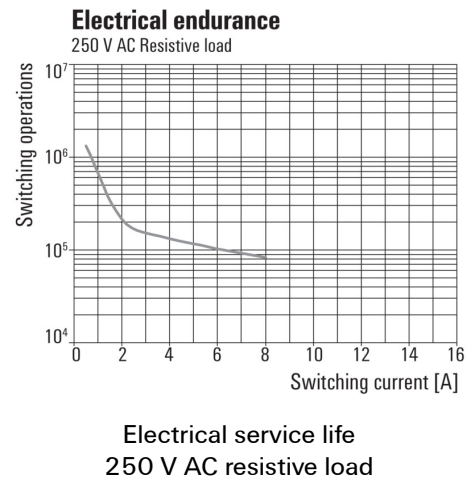
Graph



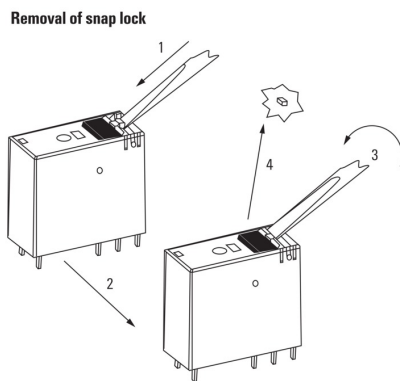
Graph



Graph

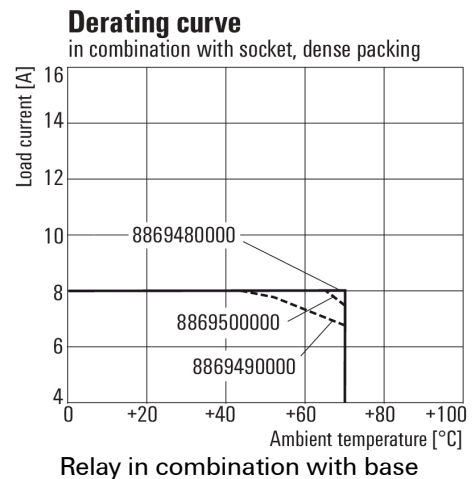


Dimensional drawing



Derating curve
Relay in combination with base

Derating curve



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Mating connector (fully pluggable)

Base



Relay base for the RIDERSERIES RCI relays

- 1 and 2 CO contacts
- Screw and PUSH IN connection
- Standard and low heights

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SRC-I 2CO N | Version |
| Order No. | 8869480000 | RIDERSERIES RCI, Relay bases, Number of contacts: 2 CO contact, |
| GTIN (EAN) | 4032248614431 | Continuous current: 12 A, 16 A ¹ , Screw connection |
| Qty. | 10 pc(s). | |
| Type | SRC-I 2CO | Version |
| Order No. | 8869490000 | RIDERSERIES RCI, Relay bases, Number of contacts: 2 CO contact, |
| GTIN (EAN) | 4032248614448 | Continuous current: 12 A, 16 A ¹ , Screw connection |
| Qty. | 10 pc(s). | |
| Type | SRC-I 2CO P | Version |
| Order No. | 8869500000 | RIDERSERIES RCI, Relay bases, Number of contacts: 2 CO contact, |
| GTIN (EAN) | 4032248614455 | Continuous current: 12 A, 16 A ¹ , PUSH IN |
| Qty. | 10 pc(s). | |

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Accessories

Label (cannot be printed using PrintJet)



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.

- 1 or 2 CO contacts
- optionally: AC or DC coils
- Relay optionally with integrated status display and/or free-wheel diode and optionally combined with a test button
- pluggable LED modules with protective functions
- Metal and plastic retaining clips
- Base with screw / PUSH IN connection

General ordering data

| | | | |
|------------|----------------------------|------------------------|--|
| Type | SRC-I MARK | Version | |
| Order No. | 8869530000 | RIDERSERIES RCI, Label | |
| GTIN (EAN) | 4032248614479 | | |
| Qty. | 10 pc(s). | | |

Cross-connection for base with PUSH IN connection



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

- 1 or 2 CO contacts
- optionally: AC or DC coils
- Relay optionally with integrated status display and/or free-wheel diode and optionally combined with a test button
- pluggable LED modules with protective functions
- Metal and plastic retaining clips
- Base with screw / PUSH IN connection

General ordering data

| | | | |
|------------|----------------------------|----------------------------------|--|
| Type | SRC-I QV P | Version | |
| Order No. | 8870840000 | RIDERSERIES RCI, Cross-connector | |
| GTIN (EAN) | 4032248631681 | | |
| Qty. | 10 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 6/24VUC | Version |
| Order No. | 8869630000 | RIDERSERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in connection |
| GTIN (EAN) | 4032248614578 | |
| 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-in connection |
| GTIN (EAN) | 4032248614554 | |
| Qty. | 10 pc(s). | |
| Type | RIM-I 3 6/24VUC GN | Version |
| Order No. | 8869640000 | RIDERSERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in connection |
| GTIN (EAN) | 4032248614585 | |
| Qty. | 10 pc(s). | |
| Type | RIM-I 3 24/60VUC GN | Version |
| Order No. | 8869620000 | RIDERSERIES, LED module, Rated control voltage: 24...60 V UC, Plug-in connection |
| GTIN (EAN) | 4032248614561 | |
| Qty. | 10 pc(s). | |

Base



Relay base for the RIDERSERIES RCI relays

- 1 and 2 CO contacts
- Screw and PUSH IN connection
- Standard and low heights

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SRC-I 2CO N | Version |
| Order No. | 8869480000 | RIDERSERIES RCI, Relay bases, Number of contacts: 2 CO contact, Continuous current: 12 A, 16 A ¹ , Screw connection |
| GTIN (EAN) | 4032248614431 | |
| Qty. | 10 pc(s). | |
| Type | SRC-I 2CO | Version |
| Order No. | 8869490000 | RIDERSERIES RCI, Relay bases, Number of contacts: 2 CO contact, Continuous current: 12 A, 16 A ¹ , Screw connection |
| GTIN (EAN) | 4032248614448 | |
| Qty. | 10 pc(s). | |

Data sheet

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Accessories

| | | |
|------------|----------------------------|---|
| Type | SRC-I 2CO P | Version |
| Order No. | 8869500000 | RIDERSERIES RCI, Relay bases, Number of contacts: 2 CO contact, |
| GTIN (EAN) | 4032248614455 | Continuous current: 12 A, 16 A ¹ , PUSH IN |
| 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 24VUC VAR | Version |
| Order No. | 8869710000 | RIDERSERIES, Protective varistor, Rated control voltage: 24 V UC, Plug- |
| GTIN (EAN) | 4032248606344 | in connection |
| Qty. | 10 pc(s). | |

Cross-connection for socket with screw connection



In an industrial environment, service work needs to be carried out quickly, simply and reliably. If components are replaced, bended relay contacts often cause errors which are difficult to locate.

As the handling of components in practice plays an increasingly important role, DRI relays have particularly stable plug contacts for quick and safe mounting. The test button with latching in end position can be operated tool-free. An easily visible, LED illuminated status display also allows clear determination of status.

Both during installation of the cabinet and during subsequent servicing in the machinery and plant engineering sector, DRI relays are the optimum coupling element for confined installation conditions.

General ordering data

| | | |
|------------|----------------------------|----------------------------------|
| Type | SRC-I QV S | Version |
| Order No. | 1132070000 | RIDERSERIES RCI, Cross-connector |
| GTIN (EAN) | 4032248912087 | |
| Qty. | 10 pc(s). | |

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Accessories

Retaining clip



- Coupling relay with positively driven contacts: for monitoring signals within safety-critical circuits
- Relays with positively driven contacts have a 99% diagnostics coverage and an excellent reputation for use in safety systems.
- The contacts interlock with each other in order to ensure a synchronous switching status between both contacts. This guarantees that the alert contact will maintain the same switching status in the event of an error (for example, if the working contact melts from an overload).

General ordering data

| | | | |
|------------|----------------------------|---------|---------------------------------|
| Type | SRC-I CLIP HM RCI | Version | |
| Order No. | 1132090000 | | RIDERSERIES RCI, Retaining clip |
| GTIN (EAN) | 4032248912209 | | |
| Qty. | 20 pc(s). | | |

Plastic retaining clip

Plastic retaining clip for RIDERSERIES RCI relays



General ordering data

| | | | |
|------------|----------------------------|---------|---------------------------------|
| Type | SRC-I CLIP HP | Version | |
| Order No. | 8869510000 | | RIDERSERIES RCI, Retaining clip |
| GTIN (EAN) | 4032248614462 | | |
| Qty. | 10 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

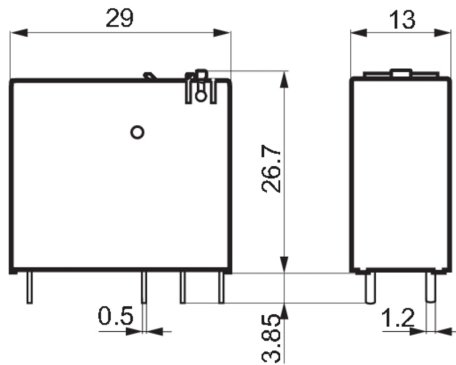
| | | |
|------------|----------------------------|--|
| Type | RIM-I 1 6/230V | Version |
| Order No. | 8869580000 | RIDERSERIES, Free-wheeling diode, Rated control voltage: 6...230 V |
| GTIN (EAN) | 4032248614523 | DC, Plug-in connection |
| Qty. | 10 pc(s). | |
| Type | RIM-I 3 6/60VAC RC | Version |
| Order No. | 8869770000 | RIDERSERIES, RC filter, Rated control voltage: 6...60 V UC, Plug-in connection |
| GTIN (EAN) | 4032248606320 | |
| Qty. | 10 pc(s). | |

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Drawings

Dimensional drawing



Miscellaneous

| | | | | | | |
|--|-----|--|--|--|--|--|
| | RCI | | | | | |
| Type RIDER Control Industrial | | | | | | Coil voltage |
| Type of construction 3 16 A pinning 5 mm 4 8 A, pinning 5mm | | | | | | Coil voltage |
| Type of contact 1 1 CO without push button 2 2 CO without push button 7 1 CO with push button 8 2 CO with push button | | | | | | Coil voltage |
| Contact material 4 AgNi 90/10 | | | | | | Coil voltage |
| | | | | | | 012 12 V DC 024 24 V DC 048 48 V DC 110 110 V DC AB2 12 V DC + LED + diode AC4 24 V DC + LED + diode AE8 48 V DC + LED + diode BBO 110 V DC + LED + diode 524 24 V AC 615 115 V AC 730 230 V AC R24 24 V AC + LED S15 115 V AC + LED T30 230 V AC + LED |

Type codes