

**RCI314R24****Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

**Product image**

Similar to illustration

Individual relays within the RIDERSERIES RCI

- 1 CO contact
- AC coils
- With integrated status LED

**General ordering data**

|            |                                                                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | RIDERSERIES RCI, Relay, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V AC, Continuous current: 16 A, Plug-in connection, Test button available: No |
| Order No.  | <a href="#">8870130000</a>                                                                                                                                              |
| Type       | RCI314R24                                                                                                                                                               |
| GTIN (EAN) | 4032248613502                                                                                                                                                           |
| Qty.       | 10 pc(s).                                                                                                                                                               |

## RCI314R24

Weidmüller Interfaces GmbH &amp; Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

## Technical data

## Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 25.6 mm  | Depth (inches)  | 1.008 inch |
| Height     | 29 mm    | Height (inches) | 1.142 inch |
| Width      | 13 mm    | Width (inches)  | 0.512 inch |
| Net weight | 13.747 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 AC               | Rated current AC               | 32 mA           |
| Power rating          | 768 mVA               | Pull-in/drop-out voltage, typ. | 18 V / 3.6 V AC |
| Coil resistance       | 350 $\Omega \pm 10\%$ | Coil tolerance                 | 10 %            |
| Status indicator      | red LED               |                                |                 |

## Load side

|                                         |                                         |                                         |                                                                                     |
|-----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|
| Rated switching voltage                 | 240 V AC                                | Continuous current                      | 16 A                                                                                |
| Max. switching frequency at rated load  | 0.1 Hz                                  | Inrush current                          | 30 A / 4 s                                                                          |
| AC switching capacity (resistive), max. | 4000 VA                                 | DC switching capacity (resistive), max. | 384 W @ 24 V                                                                        |
| Switch-on delay                         | $\leq 8$ ms                             | Switch-off delay                        | $\leq 6$ ms                                                                         |
| Contact type                            | 1 CO contact (AgNi)                     | Mechanical service life                 | AC coil $5 \times 10^6$ switching cycles, DC coil $10 \times 10^6$ switching cycles |
| Min. switching power                    | 1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V |                                         |                                                                                     |

## General data

|                       |             |                                      |     |
|-----------------------|-------------|--------------------------------------|-----|
| Test button available | No          | Mechanical switch position indicator | No  |
| 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 | $\geq 8$ mm                 | Dielectric strength for control side - load side | 5 kV <sub>eff</sub> / 1 min |
| Dielectric strength of open contact                           | 1 kV <sub>eff</sub> / 1 min | Impulse withstand voltage                        | 5 kV (1.2/50 $\mu$ s)       |

## Further details of approvals / standards

|                       |                    |                         |                |
|-----------------------|--------------------|-------------------------|----------------|
| Standards             | IEC 61810-1, UL508 | Certificate No. (CSA)   | 249409-2426937 |
| Certificate No. (VDE) | 40018043           | Certificate No. (cURus) | E224238        |

## Connection data

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

Creation date September 1, 2022 12:40:43 PM CEST

## RCI314R24

Weidmüller Interfaces GmbH &amp; Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

## Technical data

info@weidmueller.com

www.weidmueller.com

## 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>                                                                                                                   |
| Product Change Notification                 | <a href="#">20220511 Product consolidation RIDERSERIES RCI relays</a><br><a href="#">20220511 Produktkonsolidierung RIDERSERIES RCI Relais</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                       |
| Brochures                                   |                                                                                                                                                |

## RCI314R24

Weidmüller Interfaces GmbH &amp; Co. KG

Postfach 3030

32760 Detmold

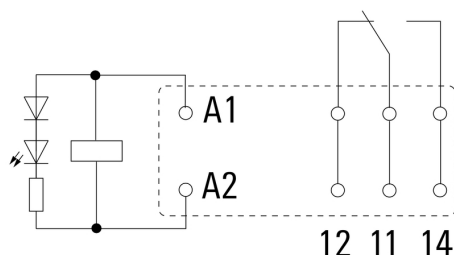
Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

## Drawings

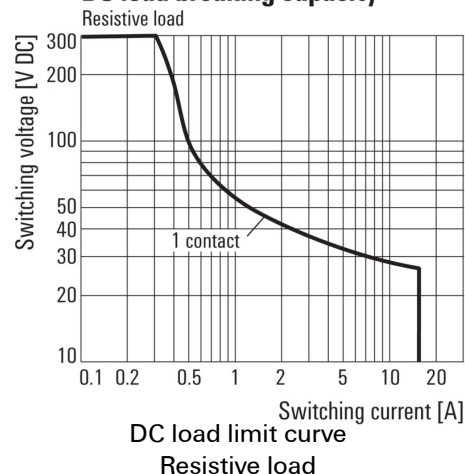
## Wiring diagram



View of Pins from below

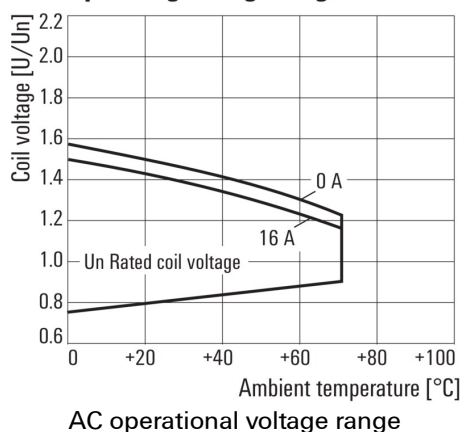
## Graph

## DC load breaking capacity



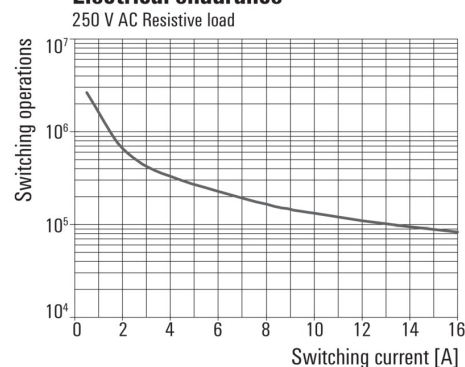
## Graph

## Operating voltage range AC



## Graph

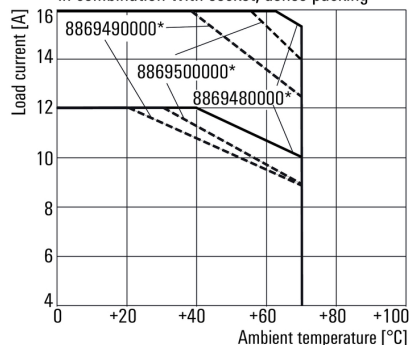
## Electrical endurance



## Graph

## Derating curve

in combination with socket, dense packing

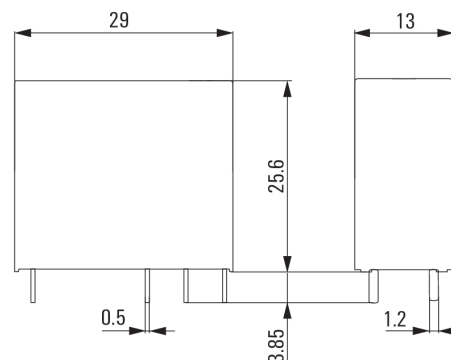


\* For full continuous current (16 A), the wire terminals 11 with 21, 12 with 22 and 14 with 24 must be bridged with a wire  $\geq 1,5 \text{ mm}^2$  at the socket.

## Derating curve

Relay in combination with base

## Dimensional drawing



**RCI314R24**
**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

**Drawings**
**Miscellaneous**

|                                 |                          | RCI |  |  |  |  |                     |                        |
|---------------------------------|--------------------------|-----|--|--|--|--|---------------------|------------------------|
| <b>Type</b>                     |                          |     |  |  |  |  | <b>Coil voltage</b> |                        |
| <b>RIDER Control Industrial</b> |                          |     |  |  |  |  | 012                 | 12 V DC                |
|                                 |                          |     |  |  |  |  | 024                 | 24 V DC                |
| <b>Type of construction</b>     |                          |     |  |  |  |  | 048                 | 48 V DC                |
| 3                               | 16 A pinning 5 mm        |     |  |  |  |  | 110                 | 110 V DC               |
| 4                               | 8 A, pinning 5mm         |     |  |  |  |  | AB2                 | 12 V DC + LED + diode  |
| <b>Type of contact</b>          |                          |     |  |  |  |  | AC4                 | 24 V DC + LED + diode  |
| 1                               | 1 CO without push button |     |  |  |  |  | AE8                 | 48 V DC + LED + diode  |
| 2                               | 2 CO without push button |     |  |  |  |  | BB0                 | 110 V DC + LED + diode |
| 7                               | 1 CO with push button    |     |  |  |  |  | 524                 | 24 V AC                |
| 8                               | 2 CO with push button    |     |  |  |  |  | 615                 | 115 V AC               |
| <b>Contact material</b>         |                          |     |  |  |  |  | 730                 | 230 V AC               |
| 4                               | AgNi 90/10               |     |  |  |  |  | R24                 | 24 V AC + LED          |
|                                 |                          |     |  |  |  |  | S15                 | 115 V AC + LED         |
|                                 |                          |     |  |  |  |  | T30                 | 230 V AC + LED         |

Type codes