

**RCI314024****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 RCI

- 1 CO contact
- Optional AC or DC coils

**General ordering data**

|            |                                                                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | RIDERSERIES RCI, Relay, Number of contacts: 1, CO contact AgNi 90/10, Rated control voltage: 24 V DC, Continuous current: 16 A, Plug-in connection |
| Order No.  | <a href="#">8869810000</a>                                                                                                                         |
| Type       | RCI314024                                                                                                                                          |
| GTIN (EAN) | 4032248613168                                                                                                                                      |
| Qty.       | 10 pc(s).                                                                                                                                          |

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## Technical data

### Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 25.6 mm    | Depth (inches)  | 1.008 inch |
| Height         | 29 mm      | Height (inches) | 1.142 inch |
| Net weight     | 17.4 g     | Width           | 13 mm      |
| Width (inches) | 0.512 inch |                 |            |

### 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 | 280.000 AC15:<br>250Vac/3A |
|-----|----------------------------|

### Rated data UL

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

### Control side

|                                |                        |                       |         |
|--------------------------------|------------------------|-----------------------|---------|
| Coil resistance                | 1440 $\Omega \pm 10\%$ | Power rating          | 761 mW  |
| Pull-in/drop-out voltage, typ. | 16.8 V / 2.4 V DC      | Rated control voltage | 24 V DC |
| Rated current DC               | 31.6 mA                |                       |         |

### Load side

|                                         |              |                      |                                         |
|-----------------------------------------|--------------|----------------------|-----------------------------------------|
| AC switching capacity (resistive), max. | 4000 VA      | Continuous current   | 16 A                                    |
| DC switching capacity (resistive), max. | 384 W @ 24 V | Inrush current       | 30 A / 4 s                              |
| Max. switching frequency at rated load  | 0.1 Hz       | Min. switching power | 1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V |
| Rated switching voltage                 | 250 V AC     | Switch-off delay     | $\leq 6$ ms                             |
| Switch-on delay                         | $\leq 8$ ms  |                      |                                         |

### Contact data

|                           |                         |                                                                                     |
|---------------------------|-------------------------|-------------------------------------------------------------------------------------|
| Contact type              | Mechanical service life | AC coil $5 \times 10^6$ switching cycles, DC coil $10 \times 10^6$ switching cycles |
| 1 CO contact (AgNi 90/10) |                         |                                                                                     |

### General data

|             |             |                                      |     |
|-------------|-------------|--------------------------------------|-----|
| Test button | No          | Mechanical switch position indicator | No  |
| Colour      | Transparent | UL 94 flammability rating            | V-2 |

### Insulation coordination

|                                                |                            |                                     |                             |
|------------------------------------------------|----------------------------|-------------------------------------|-----------------------------|
| Creepage and clearance distance input – output | $\geq 8$ mm                | Dielectric strength of open contact | 1 kV <sub>eff</sub> / 1 min |
| Dielectric strength, Input/Output              | 5 kV <sub>eff</sub> / 1min | Impulse withstand voltage           | 5 kV (1.2/50 $\mu$ s)       |
| Insulating material group                      | IIIa                       | Pollution severity                  | 2                           |
| Rated voltage                                  | 250 V                      | Surge voltage category              | III                         |

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## Technical data

## 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 |
|------------------------|--------------------|-----------------|------|

## 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 | 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="#">STEP</a>                                                    |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                            |

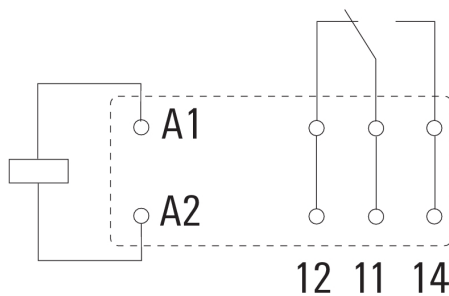
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## Drawings

### Wiring diagram

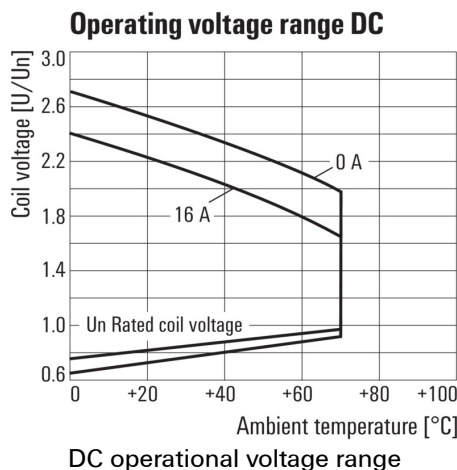


View of Pins from below

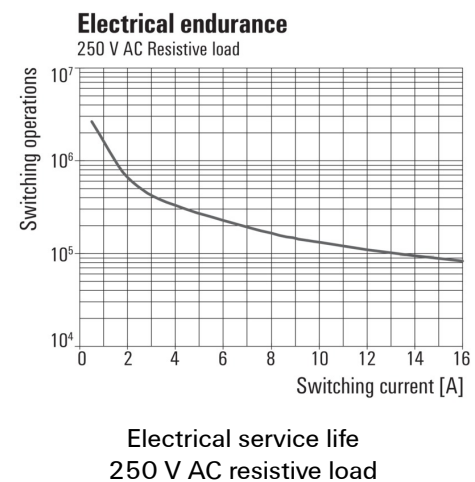
### Graph



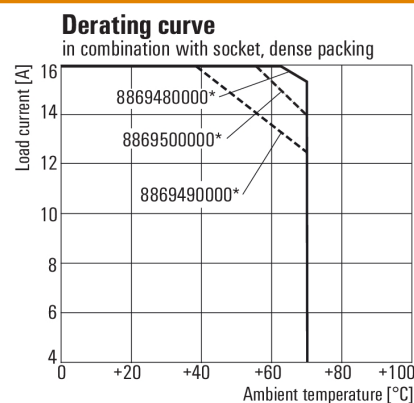
### Graph



### Graph



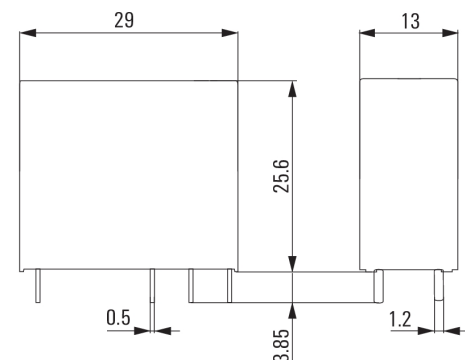
### Graph



\* For full continuous current (16 A), socket connections  
11-21, 12-22 and 14-24 must be bridged.

Derating curve  
Relay in combination with base

### Dimensional drawing



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**Drawings**
**Miscellaneous**

|                                 |  | RCI                        |  |  |  |  |
|---------------------------------|--|----------------------------|--|--|--|--|
| <b>Type</b>                     |  |                            |  |  |  |  |
| <b>RIDER Control Industrial</b> |  |                            |  |  |  |  |
| <b>Type of construction</b>     |  |                            |  |  |  |  |
| 3 16 A pinning 5 mm             |  |                            |  |  |  |  |
| 4 8 A, pinning 5mm              |  |                            |  |  |  |  |
| <b>Type of contact</b>          |  |                            |  |  |  |  |
| 1 1 CO without push button      |  |                            |  |  |  |  |
| 2 2 CO without push button      |  |                            |  |  |  |  |
| 7 1 CO with push button         |  |                            |  |  |  |  |
| 8 2 CO with push button         |  |                            |  |  |  |  |
| <b>Contact material</b>         |  |                            |  |  |  |  |
| 4 AgNi 90/10                    |  |                            |  |  |  |  |
|                                 |  | <b>Coil voltage</b>        |  |  |  |  |
|                                 |  | 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  |  |  |  |  |
|                                 |  | BB0 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

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