

**RIDERSERIES RCI**  
**RCI484048**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
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 www.weidmueller.com

**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       | RCI484048  |
| Order No.  | <a href="#">8870040000</a>   |
| Version    | RIDERSERIES RCI, Relay, No. of contacts: 2 CO contact with test button AgNi 90/10, Rated control voltage: 48 V DC, Continuous current: 8 A, Plug-in connection |
| GTIN (EAN) | 4032248613410  |
| Qty.       | 10 pc(s).  |

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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 | 16.3 g  |                 |            |

**Temperatures**

|                             |  |                             |                |
|-----------------------------|--|-----------------------------|----------------|
| Humidity                    | 40 °C / 93 % rel. humidity,<br>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                                 |                             |                |

**Environmental Product Compliance**

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

**Rated data UL**

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

**Input**

|                       |               |                                |                   |
|-----------------------|---------------|--------------------------------|-------------------|
| Rated control voltage | 48 V DC       | Rated current DC               | 8.7 mA            |
| Power rating          | 400 mW        | Pull-in/drop-out voltage, typ. | 33.6 V / 4.8 V DC |
| Coil resistance       | 5520 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 |
| 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                               | Mechanical service life   |  |
| 2 CO contact with test button (AgNi 90/10) | AC coil 5 x 10 <sup>6</sup> switching cycles, DC coil 10 x 10 <sup>6</sup> 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 |

## Data sheet

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## Technical data

### Insulation coordination

|  |                                |  |                             |
|--|--------------------------------|--|-----------------------------|
| Rated voltage                                | 250 V                          | Surge voltage category                         | III                         |
| Pollution severity                           | 2                              | Insulating material group                      | IIIa                        |
| Dielectric strength, Input/Output            | 5 kV <sub>eff</sub> / 1min     | Creepage and clearance distance input – output | ≥ 8 mm                      |
| Dielectric strength of neighbouring contacts | 2.5 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 µs)               |  |                             |

### 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 3.0   | EC001437    | ETIM 4.0   | EC001437    |
| ETIM 5.0   | EC001437    | ETIM 6.0   | EC001437    |
| UNSPSC     | 30-21-19-17 | eClass 5.1 | 27-37-16-01 |
| eClass 6.2 | 27-37-16-01 | eClass 7.1 | 27-37-16-01 |
| eClass 8.1 | 27-37-16-01 | eClass 9.0 | 27-37-16-01 |
| eClass 9.1 | 27-37-16-01 |            |             |

### Approvals

Approvals



ROHS Conform

### Downloads

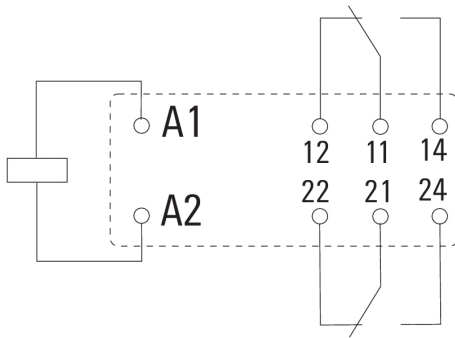
|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">DE_PA5600_160401_002.pdf</a> |
| Brochure/Catalogue                          | <a href="#">CAT 4.2 ELECTR 18/19 EN</a>  |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>             |
| Engineering Data                            | <a href="#">STEP</a>                     |

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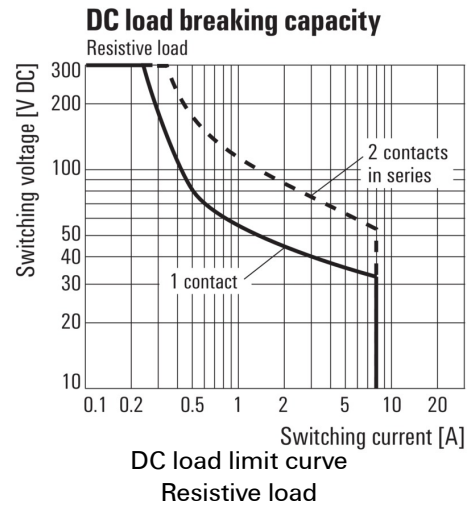
**Drawings**

**Wiring diagram**

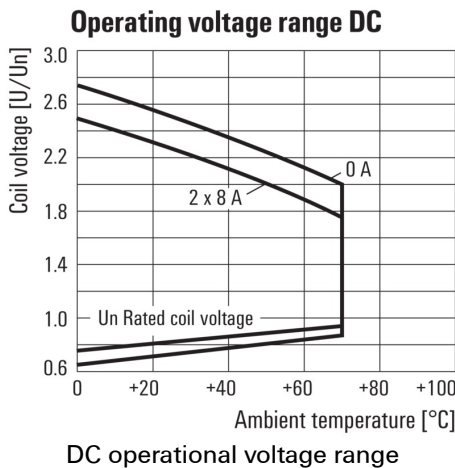


View of Pins from below

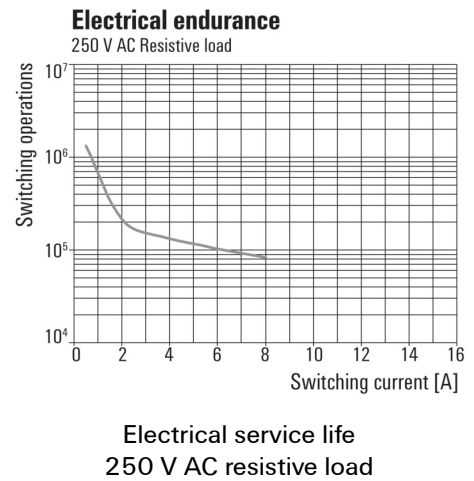
**Graph**



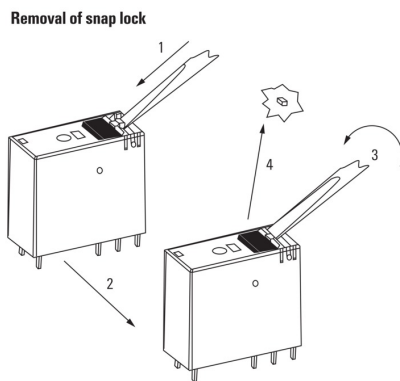
**Graph**



**Graph**

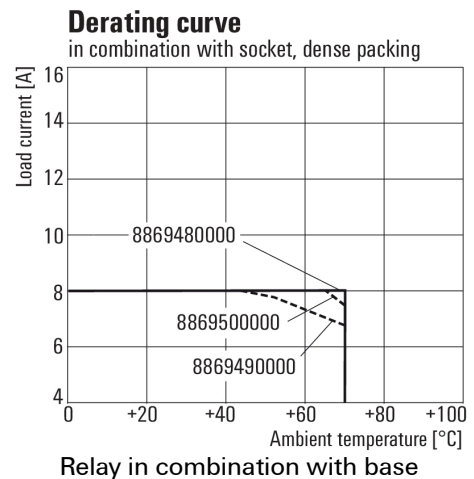


**Dimensional drawing**



Derating curve  
Relay in combination with base

**Derating curve**

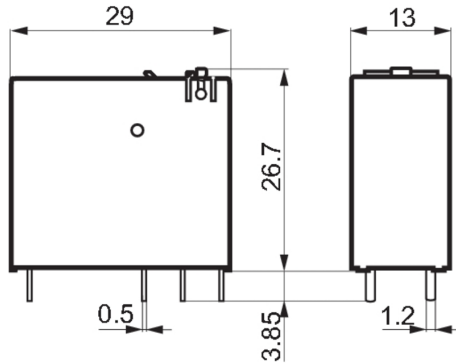


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**Drawings**

**Dimensional drawing**



**Miscellaneous**

|                             |     |  |  |  |                            |  |
|-----------------------------|-----|--|--|--|----------------------------|--|
|                             | RCI |  |  |  |                            |  |
| <b>Type</b>                 |     |  |  |  |                            |  |
| RIDER Control Industrial    |     |  |  |  |                            |  |
| <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  |  |
|                             |     |  |  |  | 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