

**RIDERSERIES RCI**  
**RCI314BB0**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Product image**


Similar to illustration

Standard relay within the RIDERSERIES RCI.

- 1 CO contact
- Relay with DC coil
- Relay with integrated status display and free-wheel diode

**General ordering data**

|            |                                                                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Type       | RCI314BB0                                                                                                                                       |
| Order No.  | <a href="#">8870120000</a>                                                                                                                      |
| Version    | RIDERSERIES RCI, Relay, No. of contacts: 1 CO contact AgNi 90/10, Rated control voltage: 110 V DC, Continuous current: 16 A, Plug-in connection |
| GTIN (EAN) | 4032248613496                                                                                                                                   |
| Qty.       | 10 pc(s).                                                                                                                                       |

**RIDERSERIES RCI  
RCI314BB0**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data****Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 13 mm   | Width (inches)  | 0.512 inch |
| Height     | 29 mm   | Height (inches) | 1.142 inch |
| Depth      | 25.6 mm | Depth (inches)  | 1.008 inch |
| Net weight | 17.6 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 | 110 V DC            | Rated current DC               | 4.1 mA         |
| Power rating          | 400 mW              | Pull-in/drop-out voltage, typ. | 77 V / 11 V DC |
| Coil resistance       | 28800 Ω ± 12 %      | Status indicator               | Green LED      |
| Protective circuit    | Free-wheeling diode |                                |                |

**Output**

|                         |                                         |                                        |            |
|-------------------------|-----------------------------------------|----------------------------------------|------------|
| Rated switching voltage | 240 V AC                                | Max. switching voltage, AC             | 400 V      |
| Continuous current      | 16 A                                    | Inrush current                         | 30 A / 4 s |
| Switch-on delay         | ≤ 8 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 | AC coil 5 x 10 <sup>6</sup> switching cycles, DC coil 10 x 10 <sup>6</sup> 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**

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

Creation date May 28, 2019 2:48:45 PM CEST

**Data sheet**

**RIDERSERIES RCI  
RCI314BB0**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**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 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**

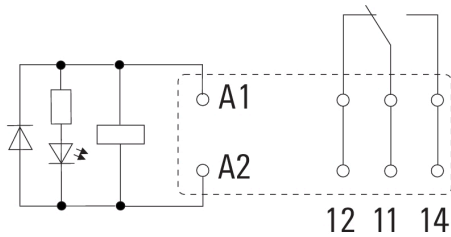
|                                             |                                          |
|---------------------------------------------|------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">DE_PA5600_160401_002.pdf</a> |
| Brochure/Catalogue       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

**RIDERSERIES RCI  
RCI314BB0**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

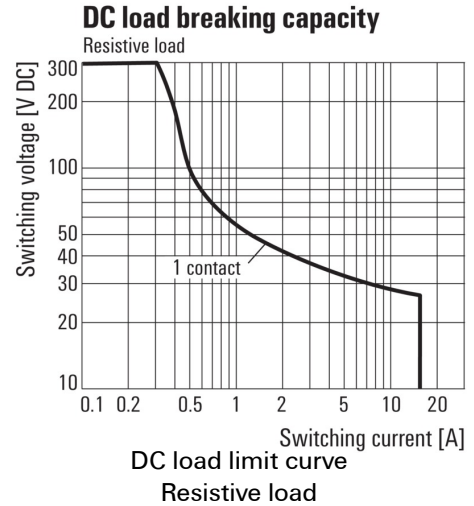
**Drawings**

**Wiring diagram**

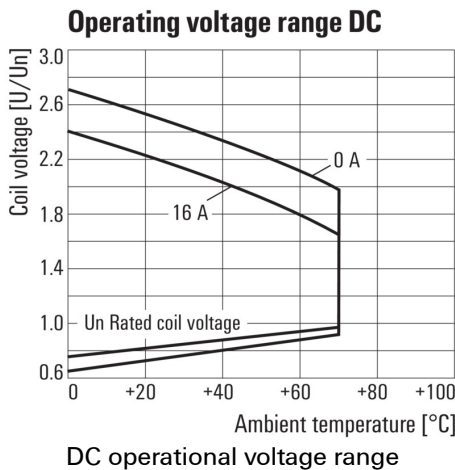


View of Pins from below

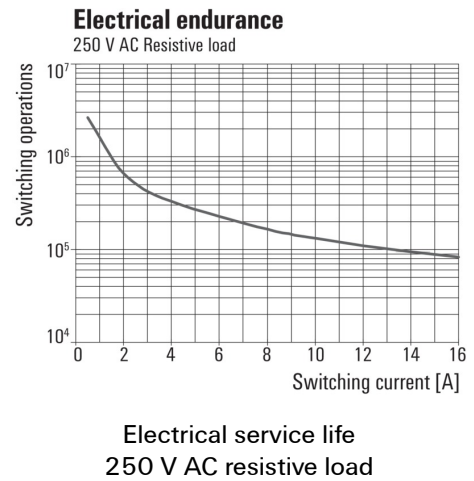
**Graph**



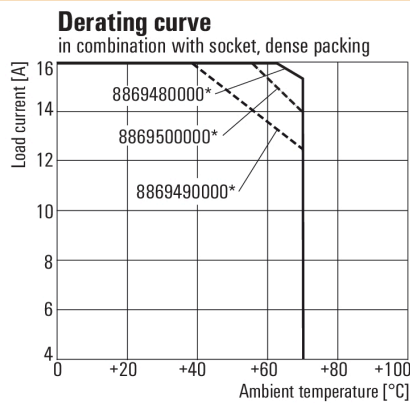
**Graph**



**Graph**



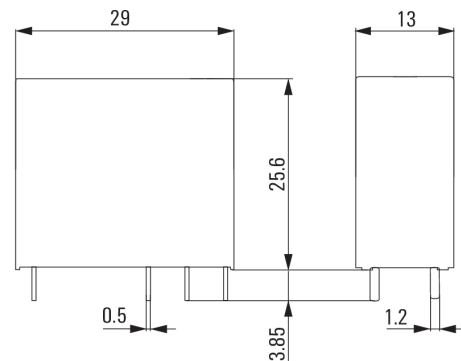
**Graph**



\* 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**

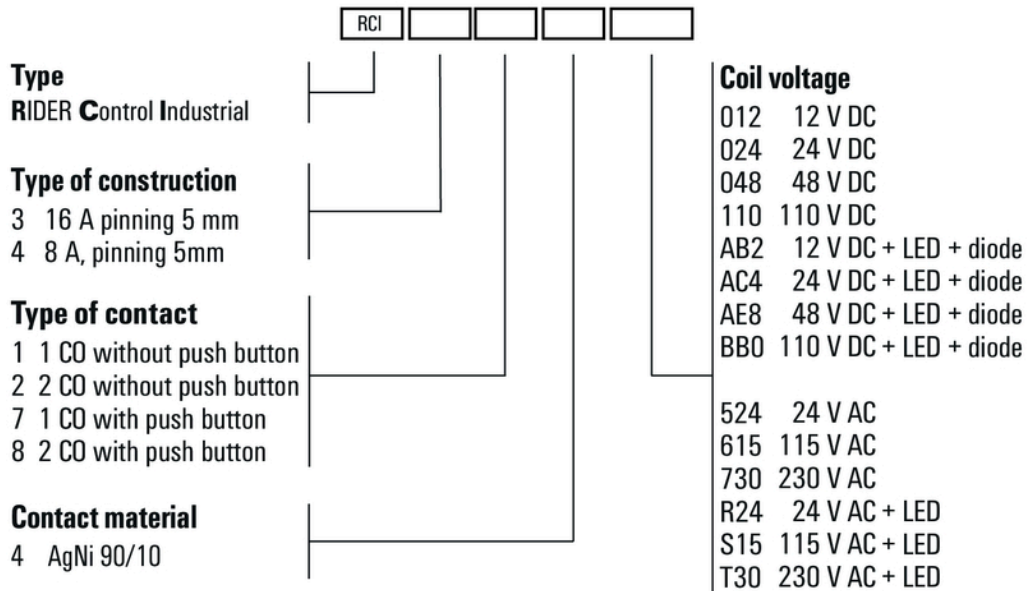


**RIDERSERIES RCI  
RCI314BB0**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Drawings**

**Miscellaneous**



Type codes