

**RCIKIT 24VAC 1CO LD/PB****Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

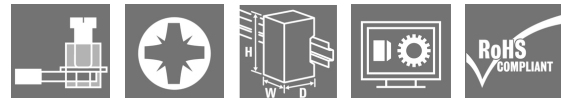
32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

**Product image**

Similar to illustration

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input - output
- 1 CO contacts
- Optional test button with mechanical status indicator
- Bright status LED (AC coil: red / DC coil: green)
- identification of coils (AC red / DC blue)

**General ordering data**

|                |                                                                                                                                                                               |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version        | RIDERSERIES RCI, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V AC, Continuous current: 16 A, Screw connection, Test button available: Yes |
| Order No.      | <a href="#">8881590000</a>                                                                                                                                                    |
| Type           | RCIKIT 24VAC 1CO LD/PB                                                                                                                                                        |
| GTIN (EAN)     | 4032248631841                                                                                                                                                                 |
| Qty.           | 10 pc(s).                                                                                                                                                                     |
| Relevant base  | <a href="#">8869490000</a>                                                                                                                                                    |
| Relevant relay | <a href="#">8870280000</a>                                                                                                                                                    |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 70.2 mm | Depth (inches)  | 2.764 inch |
| Height     | 77 mm   | Height (inches) | 3.031 inch |
| Width      | 15.8 mm | Width (inches)  | 0.622 inch |
| Net weight | 61.4 g  |                 |            |

## Temperatures

|                     |                                                |                       |                |
|---------------------|------------------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...70 °C                                 | Operating temperature | -40 °C...70 °C |
| Humidity            | 40 °C / 93 % rel. humidity,<br>no condensation |                       |                |

## Environmental Product Compliance

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

## Control side

|                       |                       |                                |                 |
|-----------------------|-----------------------|--------------------------------|-----------------|
| Rated control voltage | 24 V AC               | Rated current AC               | 45 mA           |
| Power rating          | 1080 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                 | 250 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

|                        |                                                                     |                                      |     |
|------------------------|---------------------------------------------------------------------|--------------------------------------|-----|
| Rail                   | TS 35                                                               | Test button available                | Yes |
| Version of test button | lockable, just when removing the detend lock, Momentary test button | Mechanical switch position indicator | Yes |
| Colour                 | black                                                               |                                      |     |

## 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)       |
| Protection degree                                             | IP20                        |                                                  |                             |

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### Further details of approvals / standards

|                               |                |                              |                |
|-------------------------------|----------------|------------------------------|----------------|
| Standards                     | IEC 61810-1    | Certificate no. (CSA) relay  | 249409-2426937 |
| Certificate no. (CSA) base    | 249409-2295474 | Certificate No. (DNVGL)      | TAA000011A     |
| Certificate no. (cURus) relay | E224238        | Certificate no. (cURus) base | E223759        |

## Connection data

|                                                                                         |                     |                                                                                         |                   |
|-----------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------|-------------------|
| Wire connection method                                                                  | Screw connection    | Stripping length, rated connection                                                      | 8 mm              |
| Tightening torque, min.                                                                 | 0.5 Nm              | Tightening torque, max.                                                                 | 0.7 Nm            |
| Clamping range, rated connection                                                        | 2.5 mm <sup>2</sup> | Clamping range, min.                                                                    | 1 mm <sup>2</sup> |
| Clamping range, max.                                                                    | 2.5 mm <sup>2</sup> | Wire cross-section, solid, min.                                                         | 1 mm <sup>2</sup> |
| Wire cross-section, solid, max.                                                         |                     | Wire connection cross section, finely stranded, min.                                    | 1 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, max.                                    | 2.5 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 1 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 1 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 2.5 mm <sup>2</sup> | Wire connection cross section, finely stranded, two clampable wires, min.               | 1 mm <sup>2</sup> |
| Wire cross-section, finely stranded, two clampable wires, max.                          | 1.5 mm <sup>2</sup> | Blade size                                                                              | size PZ 1         |

## 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 |

### Important note

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| Product information | IP20 without connected conductor at complete opened clamping yoke connection. |
|---------------------|-------------------------------------------------------------------------------|

## Approvals

## Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

## 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, Zuken E3.S</a>                                                                                                   |
| Product Change Notification                 | <a href="#">20220511 Product consolidation RIDERSERIES RCI KITs</a><br><a href="#">20220511 Produktkonsolidierung RIDERSERIES RCI KITs</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                   |
| Brochures                                   |                                                                                                                                            |

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Catalogue status 26.08.2022 / We reserve the right to make technical changes.

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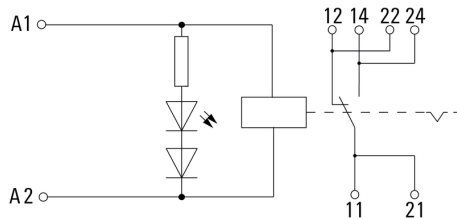
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## Drawings

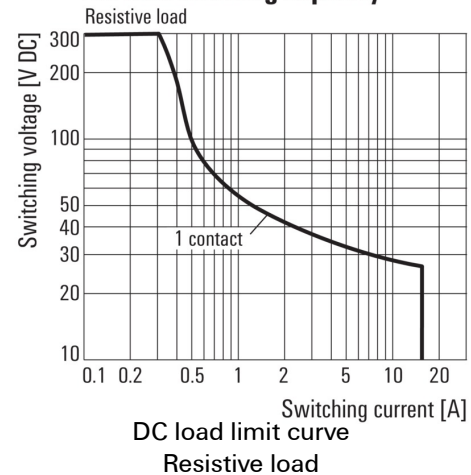
## Wiring diagram



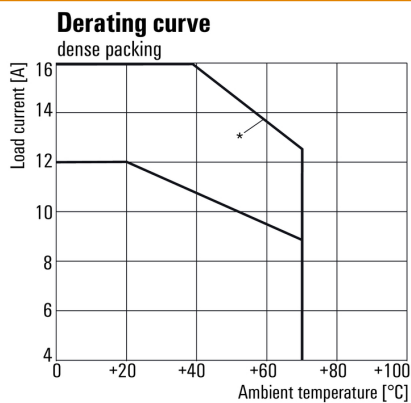
For full continuous current (16 A), the wire terminals 11 with 21, 12 with 22 and 14 with 24 must be bridged with a wire  $\geq 1,5 \text{ mm}^2$  at the socket.

## Graph

## DC load breaking capacity



## Graph

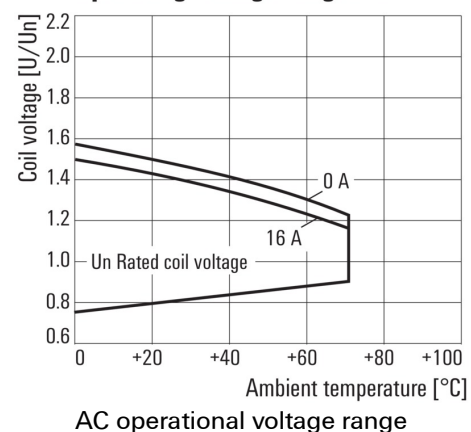


\*For full continuous current (16 A), the wire terminals 11 with 21, 12 with 22 and 14 with 24 must be bridged with a wire  $\geq 1,5 \text{ mm}^2$  at the socket.

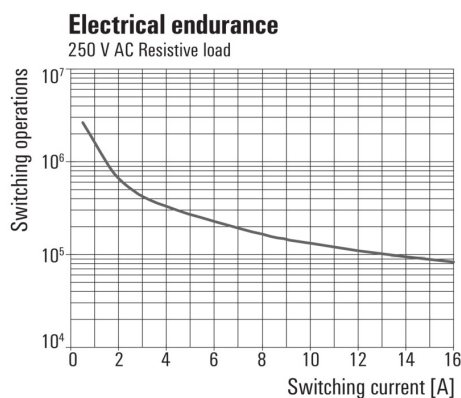
Derating curve  
Relay in combination with base

## Graph

## Operating voltage range AC

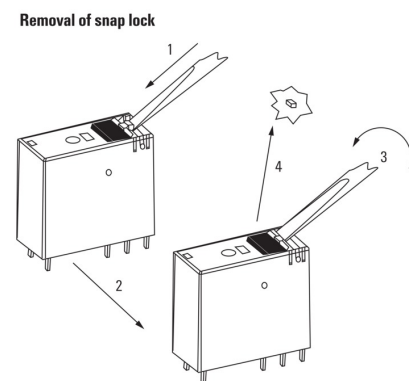


## Graph



Electrical service life 250 V AC resistive load  
250 V AC resistive load

## Dimensional drawing



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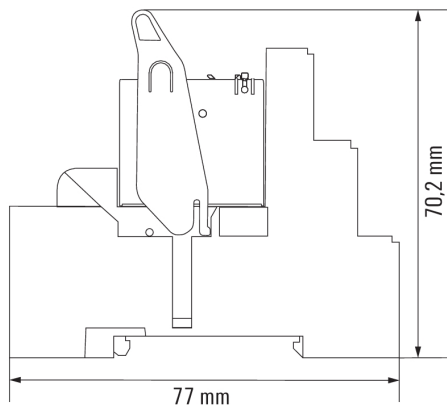
Fax. +49 5231 14-2083

[info@weidmueller.com](mailto:info@weidmueller.com)

[www.weidmueller.com](http://www.weidmueller.com)

**Drawings**

**Dimensional drawing**



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**Drawings**
