

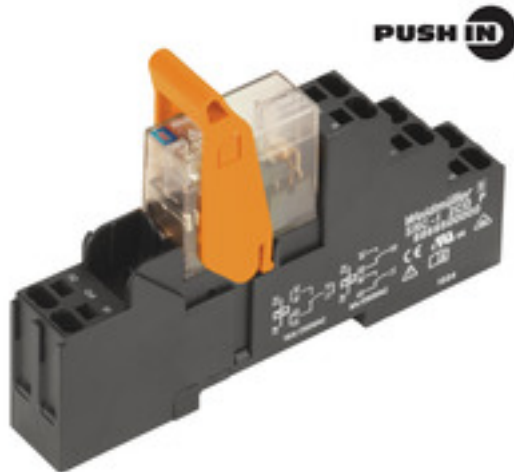
**RCIKITP 24VDC 1CO LD****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

- 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 90/10, Rated control voltage: 24 V DC, Continuous current: 16 A <sup>(1)</sup> , PUSH IN |
| Order No.      | <a href="#">8897110000</a>                                                                                                                                     |
| Type           | RCIKITP 24VDC 1CO LD                                                                                                                                           |
| GTIN (EAN)     | 4032248646883                                                                                                                                                  |
| Qty.           | 10 pc(s).                                                                                                                                                      |
| Relevant base  | <a href="#">8869500000</a>                                                                                                                                     |
| Relevant relay | <a href="#">8870100000</a>                                                                                                                                     |

Creation date March 29, 2021 11:37:37 PM CEST

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## Technical data

## Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 69.6 mm    | Depth (inches)  | 2.74 inch  |
| Height         | 98 mm      | Height (inches) | 3.858 inch |
| Net weight     | 58.6 g     | Width           | 15.8 mm    |
| Width (inches) | 0.622 inch |                 |            |

## Temperatures

|                     |                                                |                       |                |
|---------------------|------------------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...70 °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 |
|-----|----------------------------|

## Environmental Product Compliance

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

## Control side

|                       |                        |                                |                   |
|-----------------------|------------------------|--------------------------------|-------------------|
| Coil resistance       | 1440 $\Omega \pm 10\%$ | Power rating                   | 761 mW            |
| Protective circuit    | Free-wheeling diode    | 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           |
| Status indicator      | Green LED              |                                |                   |

## Load side

|                                         |              |                      |                                                                                                        |
|-----------------------------------------|--------------|----------------------|--------------------------------------------------------------------------------------------------------|
| AC switching capacity (resistive), max. |              | Continuous current   | 16 A .1) For full continuous current (16 A), relay connections 11-21, 12-22 and 14-24 must be bridged. |
|                                         | 4000 VA      | Inrush current       | 30 A / 4 s                                                                                             |
| DC switching capacity (resistive), max. | 384 W @ 24 V | Min. switching power | 1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V                                                                |
| Max. switching frequency at rated load  | 0.1 Hz       | Switch-off delay     | $\leq 6$ ms                                                                                            |
| Rated switching voltage                 | 250 V AC     |                      |                                                                                                        |
| Switch-on delay                         | $\leq 8$ ms  |                      |                                                                                                        |

## Contact data

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

## General data

|                                      |       |             |       |
|--------------------------------------|-------|-------------|-------|
| Rail                                 | TS 35 | Test button | No    |
| Mechanical switch position indicator | No    | Colour      | black |

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## Insulation coordination

|                                                |                            |                                     |                             |
|------------------------------------------------|----------------------------|-------------------------------------|-----------------------------|
| Creepage and clearance distance input – output | ≥ 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 μs)            |
| Insulating material group                      | IIIa                       | Pollution severity                  | 2                           |
| Protection degree                              | IP20                       | Rated voltage                       | 250 V                       |
| Surge voltage category                         | III                        |                                     |                             |

## Further details of approvals / standards

|                               |                |                              |                |
|-------------------------------|----------------|------------------------------|----------------|
| Standards                     | DIN EN 50178   | 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                                                                  | PUSH IN              | Stripping length, rated connection                                                      | 12 mm                |
| Clamping range, rated connection                                                        | 1.5 mm <sup>2</sup>  | Clamping range, min.                                                                    | 0.75 mm <sup>2</sup> |
| Clamping range, max.                                                                    | 1.5 mm <sup>2</sup>  | Wire cross-section, solid, min.                                                         | 0.75 mm <sup>2</sup> |
| Wire cross-section, solid, max.                                                         | 1.5 mm <sup>2</sup>  | Wire connection cross section, finely stranded, min.                                    | 0.75 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, max.                                    | 1.5 mm <sup>2</sup>  | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.75 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 0.75 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 0.75 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1 mm <sup>2</sup>    | Blade size                                                                              | 0.6 x 3.5 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 |

## Important note

Product information 1) For full continuous current (16 A), relay connections 11–21, 12–22 and 14–24 must be bridged.

## Approvals

Approvals



ROHS

Conform

## 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, Zuken E3.S</a>                                |

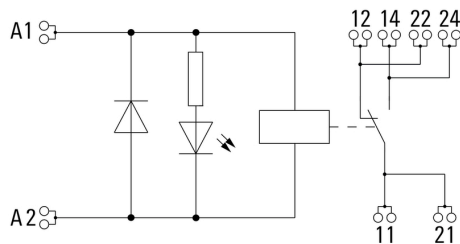
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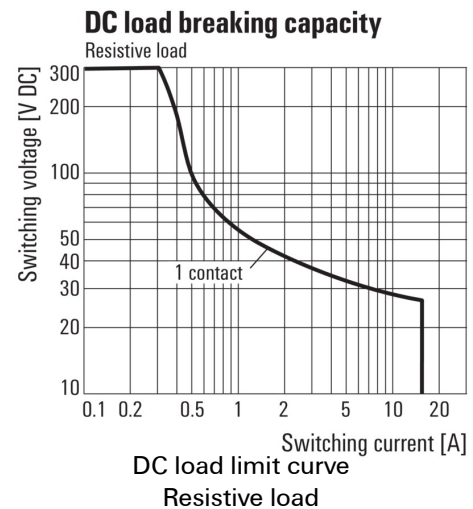
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## Drawings

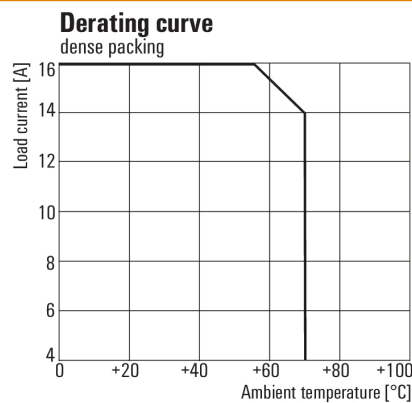
### Wiring diagram



### Graph



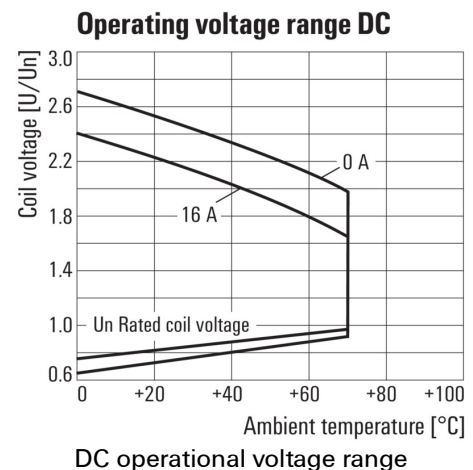
### Graph



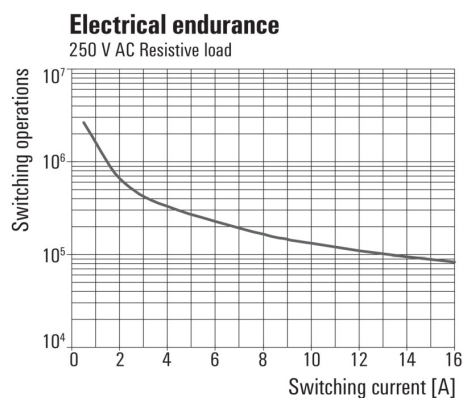
\* For full continuous current (16 A), socket connections 11-21, 12-22 and 14-24 must be bridged.

**Derating curve**  
Relay in combination with base

### Graph

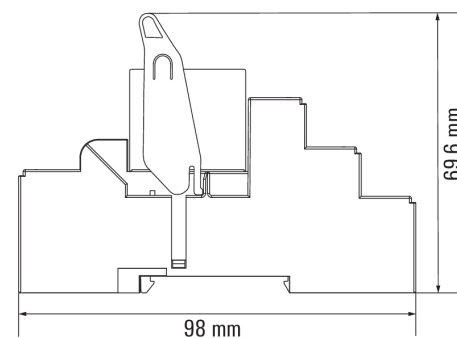


### Graph



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

### Dimensioned drawing



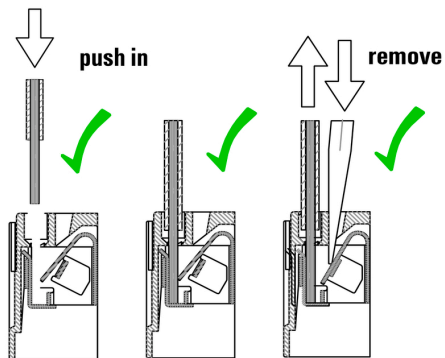
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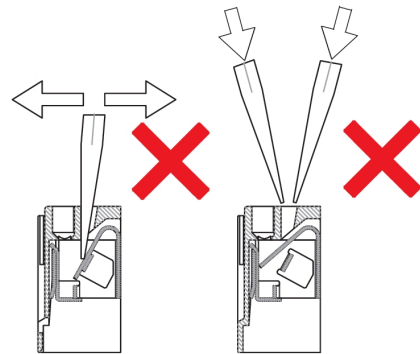
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**Drawings**

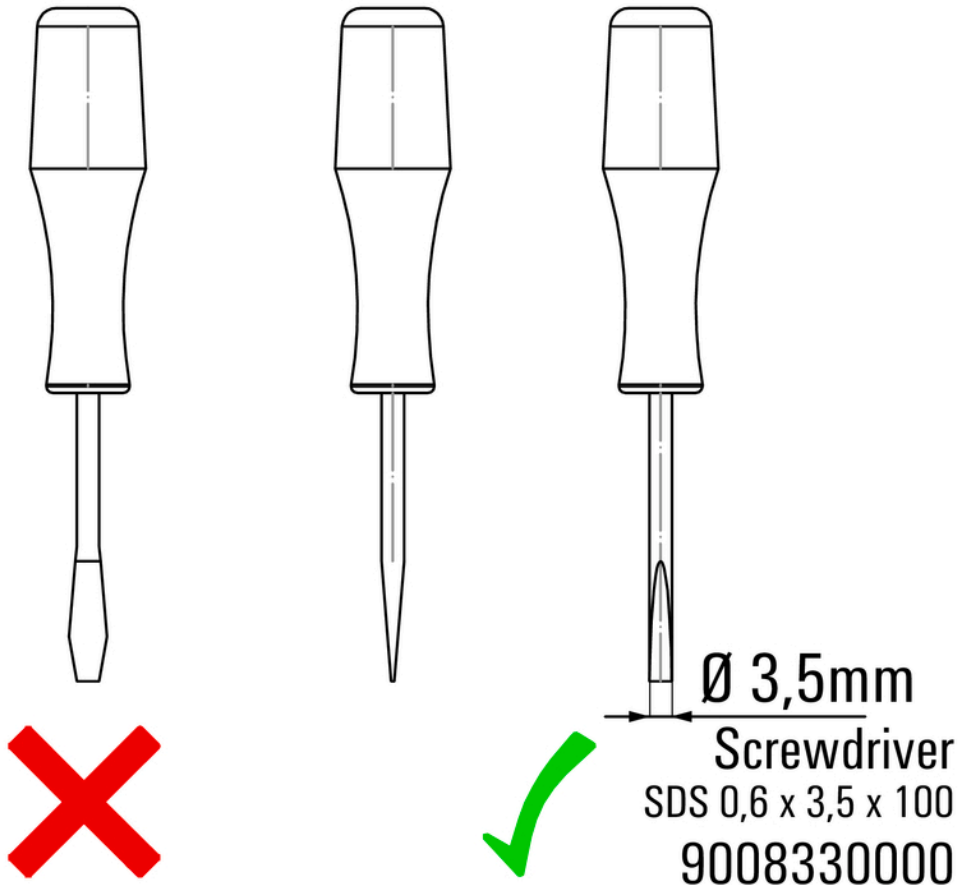
**Correct handling PUSH IN connection**



**Wrong handling PUSH IN connection**



**Recommended screwdriver**



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# Drawings

