

**RCI424S15****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

- 2 CO contacts
- AC coils
- With integrated status LED

**General ordering data**

|            |                                                                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | RIDERSERIES RCI, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 115 V AC, Continuous current: 8 A, Plug-in connection, Test button available: No |
| Order No.  | <a href="#">8870220000</a>                                                                                                                                              |
| Type       | RCI424S15                                                                                                                                                               |
| GTIN (EAN) | 4032248613588                                                                                                                                                           |
| Qty.       | 10 pc(s).                                                                                                                                                               |

Creation date September 2, 2022 1:02:12 PM CEST

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

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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 |
| Width      | 13 mm   | Width (inches)  | 0.512 inch |
| Net weight | 15.6 g  |                 |            |

## Temperatures

|                     |                                                |                       |                |
|---------------------|------------------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C                                 | Operating temperature | -40 °C...70 °C |
| Humidity            | 40 °C / 93 % rel. humidity,<br>no condensation |                       |                |

## Rated data UL

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

## Control side

|                       |                        |                                |                    |
|-----------------------|------------------------|--------------------------------|--------------------|
| Rated control voltage | 115 V AC               | Rated current AC               | 7.1 mA             |
| Power rating          | 814 mVA                | Pull-in/drop-out voltage, typ. | 86.3 V / 17.3 V AC |
| Coil resistance       | 8100 $\Omega \pm 15\%$ | Coil tolerance                 | 15 %               |
| Status indicator      | red LED                |                                |                    |

## Load side

|                                         |                                            |                                         |                                                                                           |
|-----------------------------------------|--------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------|
| Rated switching voltage                 | 240 V AC                                   | Continuous current                      | 8 A                                                                                       |
| Max. switching frequency at rated load  | 0.1 Hz                                     | Inrush current                          | 15 A / 4 s                                                                                |
| AC switching capacity (resistive), max. | 2000 VA                                    | DC switching capacity (resistive), max. | 192 W @ 24 V                                                                              |
| Switch-on delay                         | $\leq 10$ ms                               | Switch-off delay                        | $\leq 6$ ms                                                                               |
| Contact type                            | 2 CO contact (AgNi)                        | Mechanical service life                 | AC coil $5 \times 10^6$ switching<br>cycles, DC coil $10 \times 10^6$<br>switching cycles |
| Min. switching power                    | 1 mA @ 24 V, 10 mA @ 12<br>V, 100 mA @ 5 V |                                         |                                                                                           |

## General data

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

## Insulation coordination

|                                                                  |                                |                                                     |                             |
|------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|-----------------------------|
| Rated voltage                                                    | 250 V                          | Pollution severity                                  | 2                           |
| Surge voltage category                                           | III                            | Insulating material group                           | IIIa                        |
| Clearance and creepage distances for<br>control side - load side | $\geq 8$ mm                    | Dielectric strength for control side - load<br>side | 5 kV <sub>eff</sub> / 1 min |
| Dielectric strength of neighbouring<br>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 $\mu$ s)          |                                                     |                             |

## Further details of approvals / standards

|                       |                    |                         |                |
|-----------------------|--------------------|-------------------------|----------------|
| Standards             | IEC 61810-1, UL508 | Certificate No. (CSA)   | 249409-2426937 |
| Certificate No. (VDE) | 40018043           | Certificate No. (cURus) | E224238        |

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## Technical data

## Connection data

|                        |                    |                 |      |
|------------------------|--------------------|-----------------|------|
| Wire connection method | Plug-in connection | Pitch in mm (P) | 5 mm |
|------------------------|--------------------|-----------------|------|

## 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 |

## Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E224238    |

## 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</a>                                                                                                                   |
| Product Change Notification                 | <a href="#">20220511 Product consolidation RIDERSERIES RCI relays</a><br><a href="#">20220511 Produktkonsolidierung RIDERSERIES RCI Relais</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                       |
| Brochures                                   |                                                                                                                                                |

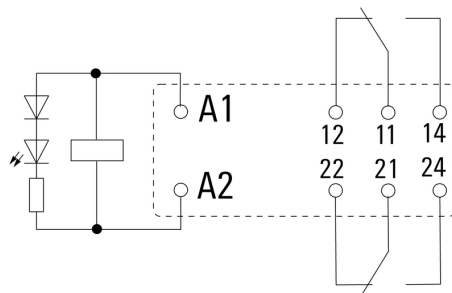
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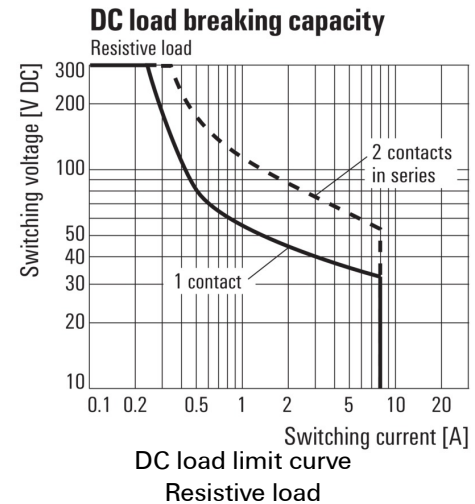
## Drawings

### Wiring diagram

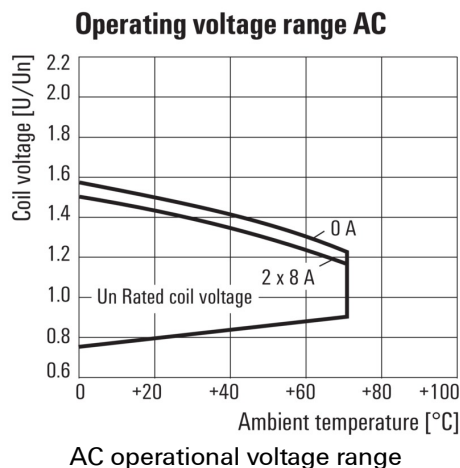


View of Pins from below

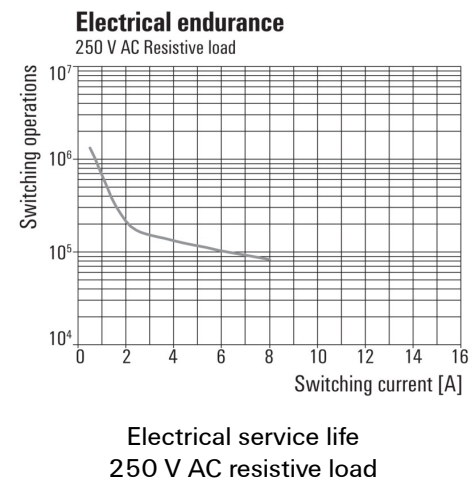
### Graph



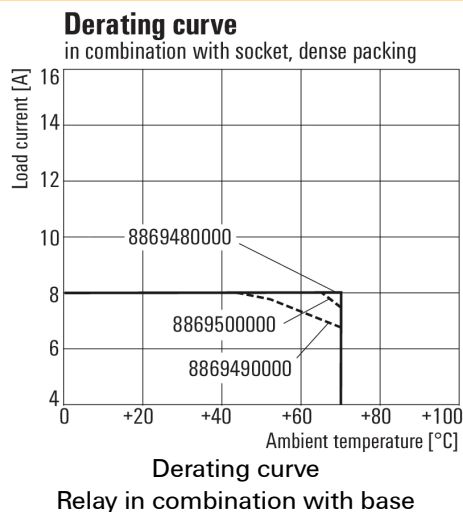
### Graph



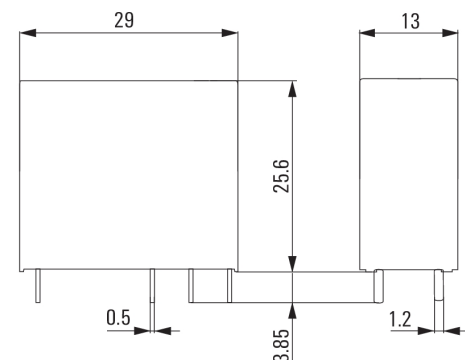
### Graph



### Graph



### Dimensional drawing



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**Drawings**
**Miscellaneous**

|                             |                          | RCI |  |  |  |  |                     |                        |
|-----------------------------|--------------------------|-----|--|--|--|--|---------------------|------------------------|
| <b>Type</b>                 |                          |     |  |  |  |  | <b>Coil voltage</b> |                        |
| RIDER Control Industrial    |                          |     |  |  |  |  | 012                 | 12 V DC                |
|                             |                          |     |  |  |  |  | 024                 | 24 V DC                |
| <b>Type of construction</b> |                          |     |  |  |  |  | 048                 | 48 V DC                |
| 3                           | 16 A pinning 5 mm        |     |  |  |  |  | 110                 | 110 V DC               |
| 4                           | 8 A, pinning 5mm         |     |  |  |  |  | AB2                 | 12 V DC + LED + diode  |
| <b>Type of contact</b>      |                          |     |  |  |  |  | AC4                 | 24 V DC + LED + diode  |
| 1                           | 1 CO without push button |     |  |  |  |  | AE8                 | 48 V DC + LED + diode  |
| 2                           | 2 CO without push button |     |  |  |  |  | BB0                 | 110 V DC + LED + diode |
| 7                           | 1 CO with push button    |     |  |  |  |  | 524                 | 24 V AC                |
| 8                           | 2 CO with push button    |     |  |  |  |  | 615                 | 115 V AC               |
| <b>Contact material</b>     |                          |     |  |  |  |  | 730                 | 230 V AC               |
| 4                           | AgNi 90/10               |     |  |  |  |  | R24                 | 24 V AC + LED          |
|                             |                          |     |  |  |  |  | S15                 | 115 V AC + LED         |
|                             |                          |     |  |  |  |  | T30                 | 230 V AC + LED         |

Type codes