# RIDERSERIES RCI
# RCI424012

**Weidmüller Interface GmbH & Co. KG**
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## Product image



Similar to illustration

Standard relay within the RIDERSERIES RCI.
- 2 CO contacts
- optionally: AC or DC coils

### General ordering data

| | |
|---|---|
| Type | RCI424012 |
| Order No. | 8869870000 |
| Version | RIDERSERIES RCI, Relay, Number of contacts: 2, CO contact AgNi 90/10, Rated control voltage: 12 V DC, Continuous current: 8 A, Plug-in connection |
| GTIN (EAN) | 4032248613229 |
| 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 | 25.6 mm | Depth (inches) | 1.008 inch |
| Net weight | 16.9 g | | |

### Temperatures

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

### Rated data UL

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

### Input

| | | | |
|---|---|---|---|
| Rated control voltage | 12 V DC | Rated current DC | 33.3 mA |
| Power rating | 400 mW | Pull-in/drop-out voltage, typ. | 8.4 V / 1.2 V DC |
| Coil resistance | 360 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 |
| AC switching capacity (resistive), max. | 2000 VA | DC switching capacity (resistive), max. | 192 W @ 24 V |
| 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 | 2 CO contact (AgNi 90/10) | Mechanical service life | AC coil 5 x $10^6$ switching cycles, DC coil 10 x $10^6$ switching cycles |

### 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 $kV_{eff}$ / 1min | Creepage and clearance distance input – output | ≥ 8 mm |
| Dielectric strength of neighbouring contacts | 2.5 $kV_{eff}$ / 1 Min. | Dielectric strength of open contact | 1 $kV_{eff}$ / 1 min |
| Impulse withstand voltage | 5 kV (1.2/50 µs) | | |

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## Technical data

### Further details of approvals / standards

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

### Connection data

| | | | |
|---|---|---|---|
| Wire connection method | Plug-in connection | Pitch in mm (P) | 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 | UNSPSC | 30-21-19-17 |

### Approvals

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

### Downloads

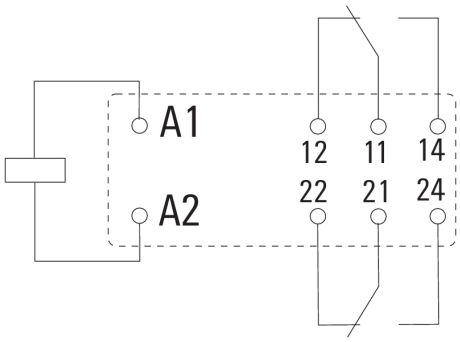
| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Brochure/Catalogue | CAT 4.2 ELECTR 18/19 EN |
| Engineering Data | EPLAN, WSCAD |
| Engineering Data | STEP |

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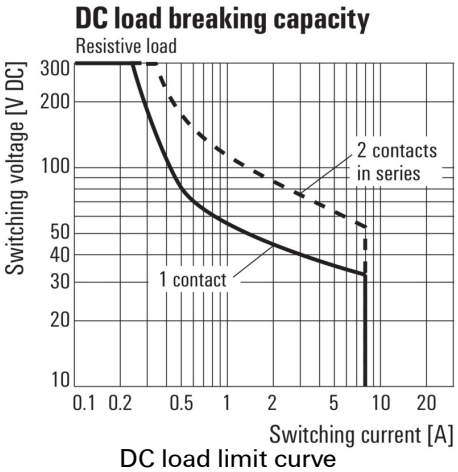
## Drawings

### Wiring diagram



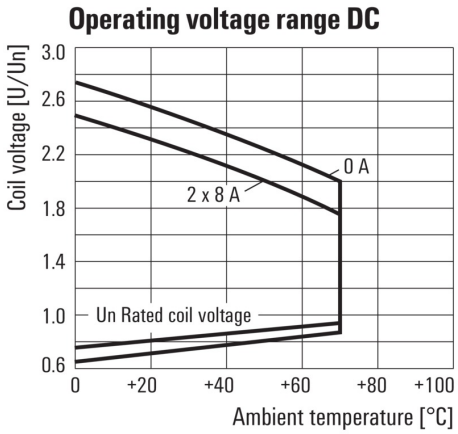

View of Pins from below

### Graph



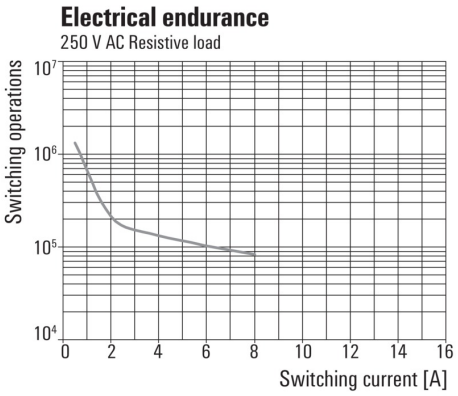

DC load limit curve
Resistive load

### Graph



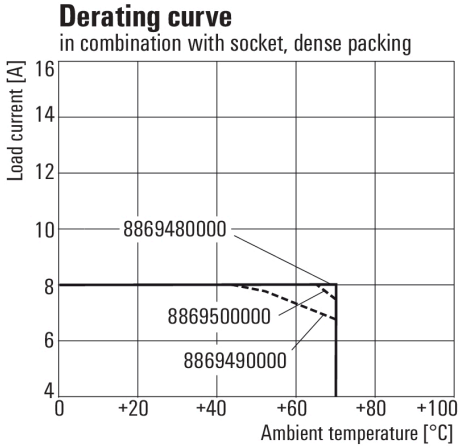

DC operational voltage range

### Graph



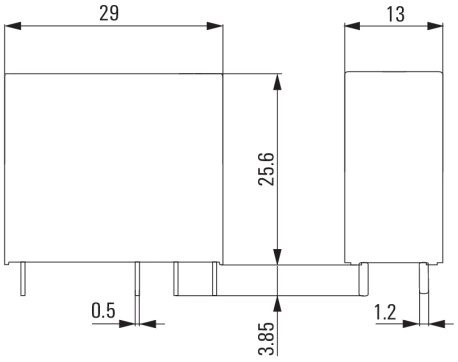

Electrical service life
250 V AC resistive load

### Graph




Derating curve
Relay in combination with base

### Dimensional drawing

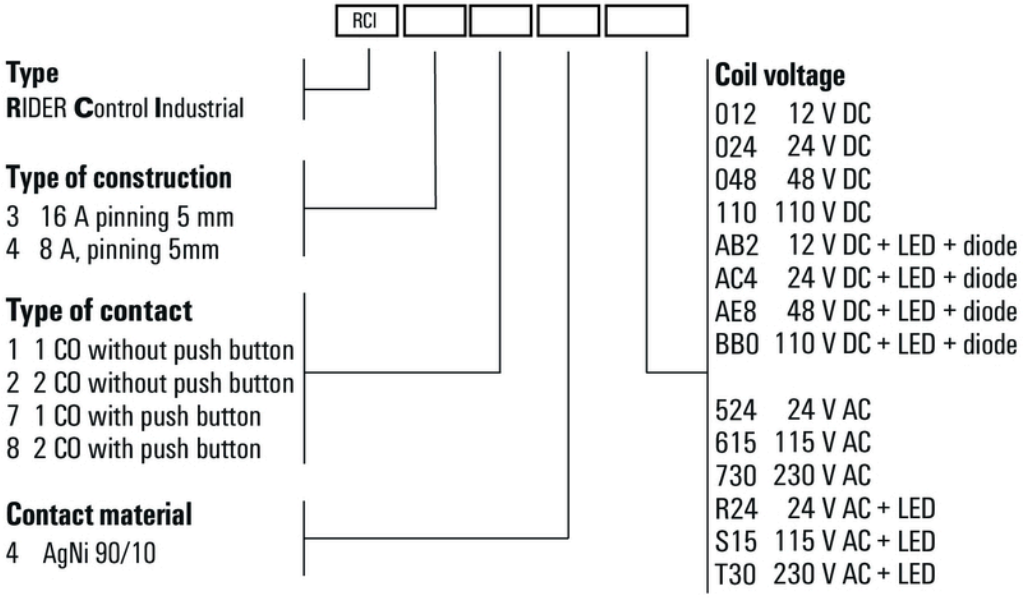


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## Drawings

### Miscellaneous




Type codes