

RCI424AC4**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Similar to illustration

Individual relays within the RIDERSERIES RCI

- 2 CO contacts
- DC coils
- With integrated status LED and free-wheeling diode

General ordering data

| | |
|------------|--|
| Version | RIDERSERIES RCI, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V DC, Continuous current: 8 A, Plug-in connection, Test button available: No |
| Order No. | 8870180000 |
| Type | RCI424AC4 |
| GTIN (EAN) | 4032248613540 |
| Qty. | 10 pc(s). |

Creation date February 16, 2023 12:40:09 PM CET

Catalogue status 03.02.2023 / 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 | 14.53 g | | |

Temperatures

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

Rated data UL

| | |
|-------------------------|---------|
| Certificate No. (cURus) | E522350 |
|-------------------------|---------|

Control side

| | | | |
|-----------------------|---------------|--------------------------------|---------------------|
| Rated control voltage | 24 V DC | Rated current DC | 17.5 mA |
| Power rating | 419 mW | Pull-in/drop-out voltage, typ. | 16.8 V / 2.4 V DC |
| Coil resistance | 1440 Ω ± 10 % | Coil tolerance | 10 % |
| Status indicator | Green LED | Protective circuit | Free-wheeling diode |

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 | ≤ 10 ms | Switch-off delay | ≤ 6 ms |
| Contact type | 2 CO contact (AgNi) | Mechanical service life | AC coil 5 x 10 ⁶ switching cycles, DC coil 10 x 10 ⁶ switching cycles |
| Min. switching power | 1 mA @ 24 V, 10 mA @ 12 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 control side - load side | ≥ 8 mm | Dielectric strength for control side - load side | 5 kV _{eff} / 1 min |
| 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) | | |

Further details of approvals / standards

| | | | |
|-------------------------|----------------|-----------------------|----------|
| Certificate No. (CSA) | 249409-2426937 | Certificate No. (VDE) | 40018043 |
| Certificate No. (cURus) | E522350 | | |

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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) | E522350 |

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | WSCAD |
| Product Change Notification | 20220511 Product consolidation RIDERSERIES RCI relays 20220511 Produktkonsolidierung RIDERSERIES RCI Relais |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

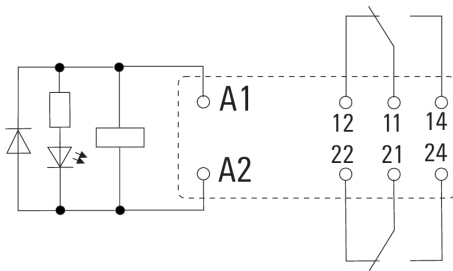
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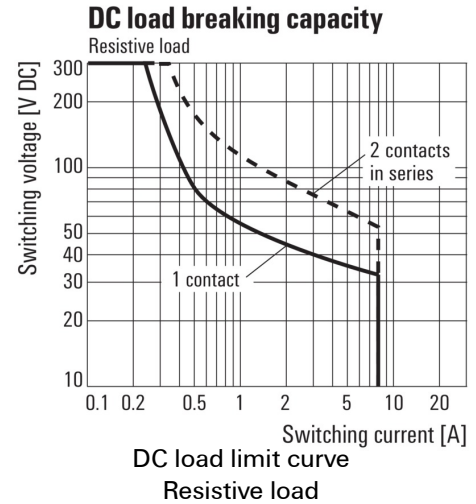
Drawings

Wiring diagram

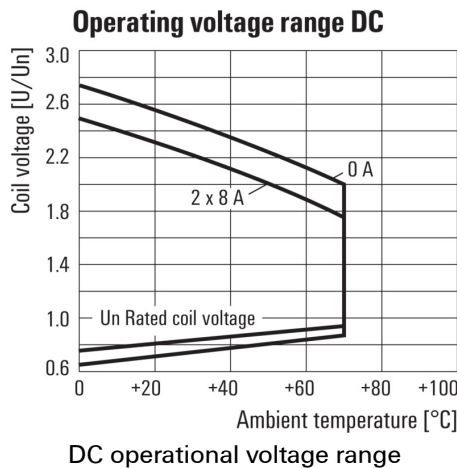


View of Pins from below

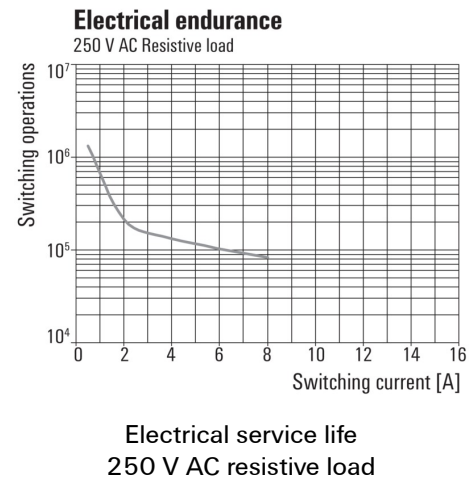
Graph



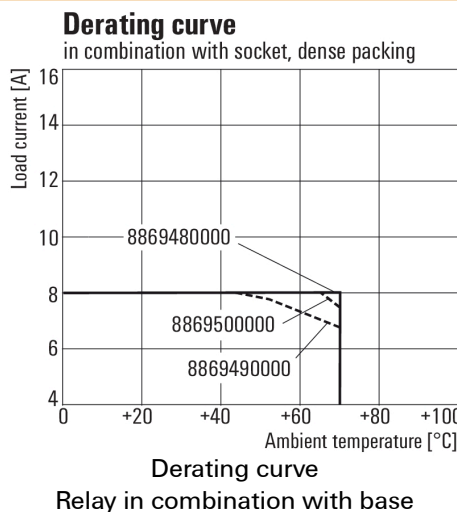
Graph



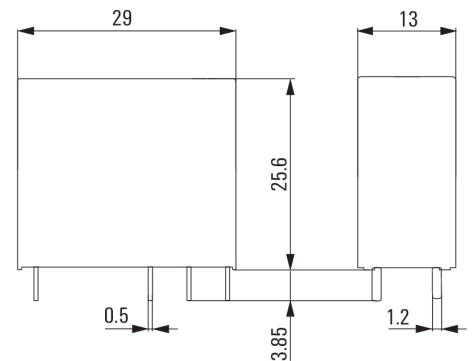
Graph



Graph



Dimensional drawing



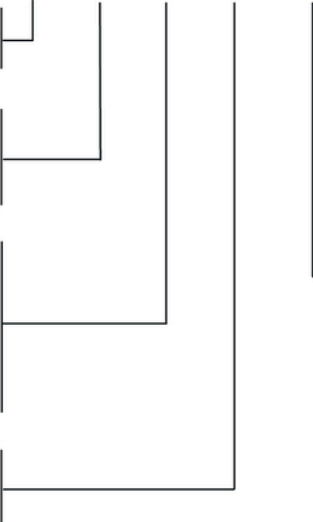
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Drawings

Miscellaneous

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

Type codes