

RCIKIT 24VDC 2CO LD/FG

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



Relay modules with forcibly guided contacts
Relays with forcibly guided contacts have a 99 % diagnostics coverage and an excellent reputation for use in safety systems. The contacts interlock mechanically with each other in order to ensure a synchronous switching status of both contacts. This guarantees that the alert contact will maintain the same switching status in the event of an error (for example, if the working contact welds from an overload). The controller (or safety controller) detects the alert contact and then compares the set values and actual values. If a difference occurs, measures can then be taken to protect equipment and human life.

- 2 CO contacts with 6 A, forcibly guided according to EN 61810-3 type B
- Proven component in safety technology
- Diagnosis coverage of 99 %

General ordering data

| | |
|---------------------|--|
| Version | RIDERSERIES FG, Relay module with positively driven contacts, Number of contacts: 2, CO contacts forcibly guided (EN 61810-3 type B) AgCuNi, Rated control voltage: 24 V DC \pm 10 %, Continuous current: 6 A, Screw connection, Test button available: No |
| Order No. | 1218410000 |
| Type | RCIKIT 24VDC 2CO LD/FG |
| GTIN (EAN) | 4050118002416 |
| Qty. | 10 pc(s). |
| Relevant rim module | 8713720000 |
| Relevant relay | 1218380000 |
| Relevant base | 8690830000 |

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 61.6 mm | Depth (inches) | 2.425 inch |
| Height | 77.6 mm | Height (inches) | 3.055 inch |
| Width | 15.6 mm | Width (inches) | 0.614 inch |
| Net weight | 71.1 g | | |

Temperatures

| | | | |
|---------------------|--|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...70 °C |
| Humidity | 40 °C / 95 % rel. humidity, no condensation | | |

Control side

| | | | |
|-----------------------|---------------------|------------------|-------------------------|
| Rated control voltage | 24 V DC \pm 10 % | Rated current DC | 31.6 mA |
| Power rating | 759 mW | Coil resistance | 720 Ω \pm 10 % |
| Coil tolerance | 10 % | Status indicator | Green LED |
| Protective circuit | Free-wheeling diode | | |

Load side

| | | | |
|---|---|---|--|
| Rated switching voltage | 250 V AC | Continuous current | 6 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, DC | 250 V |
| Inrush current | 15 A / 20 ms | AC switching capacity (resistive), max. | 1500 VA |
| DC switching capacity (resistive), max. | 144 W @ 24 V | Switch-on delay | \leq 12 ms |
| Switch-off delay | \leq 6 ms | Contact type | 2 CO contacts forcibly guided (EN 61810-3 type B) (AgCuNi) |
| Mechanical service life | $>$ 50 x 10 ⁶ switching cycles | Min. switching power | 1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V |

General data

| | | | |
|--------------------------------------|-------|-----------------------|-------|
| Rail | TS 35 | Test button available | No |
| Mechanical switch position indicator | No | Colour | black |
| UL 94 flammability rating | V-1 | | |

Insulation coordination

| | | | |
|--|--------------------------------|---|--------------------------------|
| Rated voltage | 250 | Pollution severity | 2 |
| Surge voltage category | III | Clearance and creepage distances for control side - load side | \geq 10 mm |
| Dielectric strength for control side - load side | 2.5 kV _{eff} / 1 Min. | Dielectric strength of neighbouring contacts | 2.5 kV _{eff} / 1 Min. |
| Dielectric strength of open contact | 1.5 kV _{eff} / 1 min. | Impulse withstand voltage | 6 kV (1.2/50 μ s) |
| Protection degree | IP20 | | |

Further details of approvals / standards

| | | | |
|-----------|--------------|------------------------------|---------|
| Standards | DIN EN 50205 | Certificate no. (cURus) base | E223759 |
|-----------|--------------|------------------------------|---------|

Connection data

| | | | |
|----------------------------------|---------------------|------------------------------------|---------------------|
| Wire connection method | Screw connection | Stripping length, rated connection | 8 mm |
| Clamping range, rated connection | 2.5 mm ² | Clamping range, min. | 0.5 mm ² |
| Clamping range, max. | 2.5 mm ² | Blade size | size PH1 |

Creation date April 25, 2024 10:49:20 AM CEST

Catalogue status 20.04.2024 / We reserve the right to make technical changes.

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Technical data**Classifications**

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001437 | ETIM 7.0 | EC001437 |
| ETIM 8.0 | EC001437 | ETIM 9.0 | 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 | ECLASS 13.0 | 27-37-16-01 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | fc45714a-dcf9-499e-b37b-5a6f61f2521f |

Approvals

Approvals



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

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | SISTEMA, Zuken E3.S |
| Software | Library and function block – SISTEMA library 2.0 |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

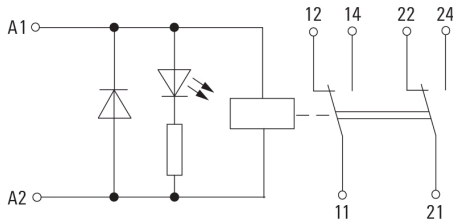
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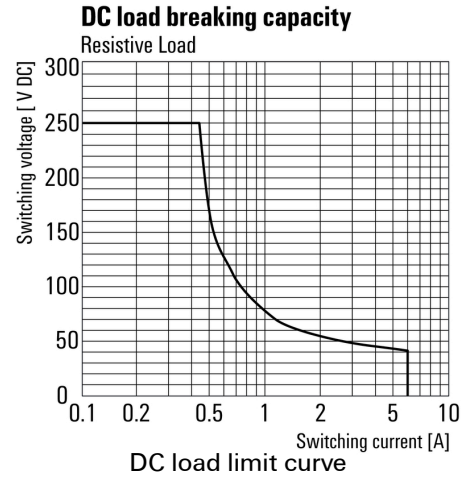
Drawings

Wiring diagram

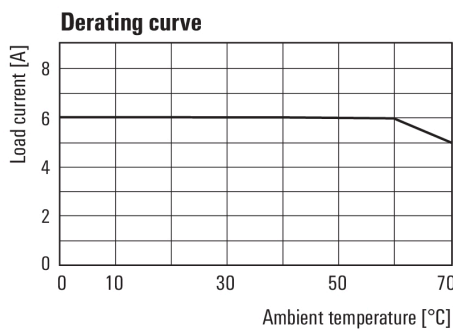


Connection diagram

Graph

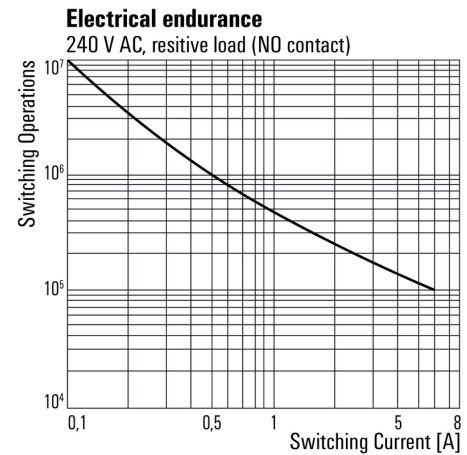


Graph

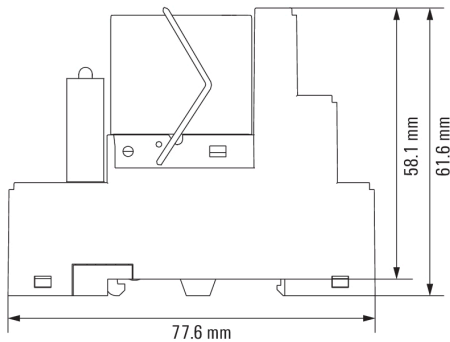


DC load limit curve

Graph



Dimensional drawing



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