

RIDERSERIES RCMKIT-I 24VDC 3CO LD

Weidmüller Interface GmbH & Co. KG
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Modular system comprised of:

- relay socket for rail mounting
- LED indicator unit
- retaining clip
- plug-in relay
- markers

General ordering data

| | |
|------------|--|
| Order No. | 8920980000 |
| Type | RCMKIT-I 24VDC 3CO LD |
| Version | RIDERSERIES, Relays, No. of contacts: 3, CO contact with test button, AgNi 90/10, Rated control voltage: 24 V DC, Continuous current: 10 A, Screw connection |
| GTIN (EAN) | 4032248692231 |
| Qty. | 10 pc(s). |

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Technical data
Ratings

| | | | |
|-----------------------------|------------------|----------|--|
| Conductor connection system | Screw connection | Humidity | 40 °C / 93 % rel. humidity, no condensation |
| UL 94 flammability rating | V-0 | | |

Dimensions and weights

| | | | |
|-------|-------|------------|---------|
| Width | 28 mm | Height | 74 mm |
| Depth | 72 mm | Net weight | 86.95 g |

Temperatures

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

Connection data

| | | | |
|--|---------------------|--|---------------------|
| Clamping range, rated connection | 2.5 mm ² | Clamping range, rated connection, min. | 0.5 mm ² |
| Clamping range, rated connection, max. | 2.5 mm ² | Tightening torque, min. | 0.5 Nm |
| Tightening torque, max. | 0.7 Nm | Stripping length, rated connection | 8 mm |

Input

| | | | |
|--|----------------|------------------|--|
| Rated control voltage | 24 V DC | Rated current DC | 31.3 mA |
| Coil resistance | 777 Ω ± 10 % | Power rating | 740 mW |
| Pull-in (sparkover) / drop-out voltage DC coil | 18.0 V / 2.4 V | Status indicator | Green LED = DC coil; red LED = AC coil |

Output

| | | | |
|-------------------------|--------------|--|---------------|
| Rated switching voltage | 240 V AC | Max. switching voltage, AC | 400 V |
| Continuous current | 10 A | making current | 20 A / 20 ms |
| Max. switching power | 2500 VA | Sparkover time / Drop-out time | 15 ms / 10 ms |
| Min. switching power | 12 V / 10 mA | Max. switching frequency at rated load | 0.1 Hz |

Contact specifications

| | | | |
|------------------|------------|-------------------------|--|
| No. of contacts | 3 | Contact design | CO contact with test button |
| Contact material | AgNi 90/10 | Mechanical service life | AC coil 20 x 10 ⁶ Switching cycles, DC coil 30 x 10 ⁶ Switching cycles |

Insulation coordination

| | | | |
|--|--------------------------------|---|--------|
| Rated voltage | 250 V | Clearance and creepage distances for control side - load side | ≥ 4 mm |
| Dielectric strength for control side - load side | 2.5 KV _{eff} / 1 min. | Protection degree | IP 20 |
| Insulating material group | IIIa | Pollution severity | 2 |
| Surge voltage category | III | | |

Other technical data

| | | | |
|------------------|------------------|------------------|--|
| Version | with test button | Status indicator | Green LED = DC coil; red LED = AC coil |
| Free-wheel diode | Yes | | |

Creation date November 19, 2012 2:19:40 PM CET

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Technical data

Further details of approvals / standards

Standards DIN EN 50178

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 2.0 | EC001437 | ETIM 3.0 | EC001437 |
| UNSPSC | 30-21-19-17 | eClass 4.1 | 40-02-06-14 |
| eClass 5.1 | 27-37-16-01 | eClass 6.0 | 27-37-16-01 |
| eClass 7.0 | 27-37-16-01 | | |

Approvals

Approvals



Downloads

Declaration of Conformity [K318_09_09.pdf](#)
 EPLAN [8920980000.ema](#)
[3-D model](#)

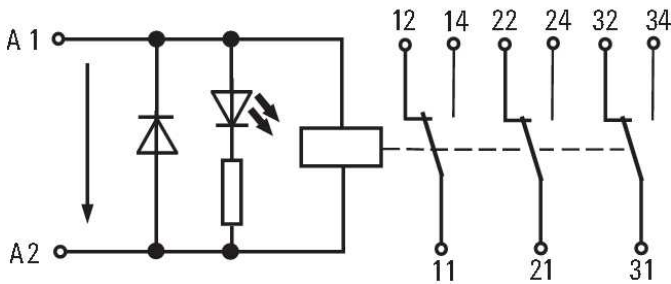
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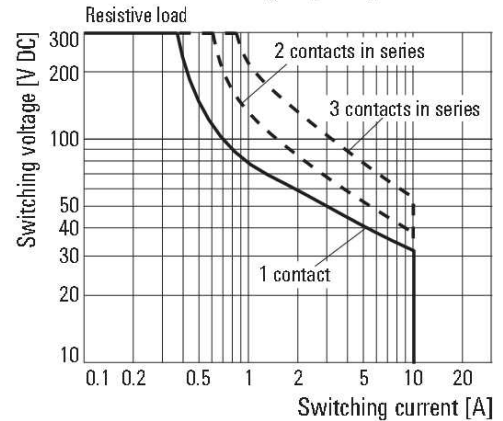
Drawings

Electric symbol

DC-Version

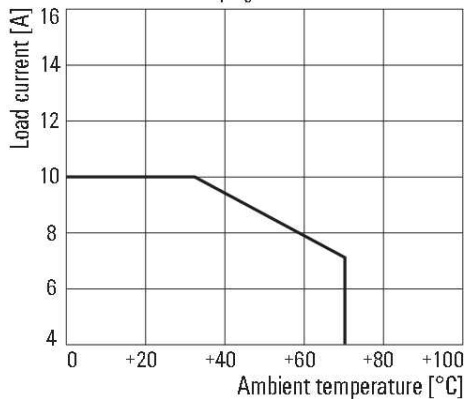


DC load breaking capacity

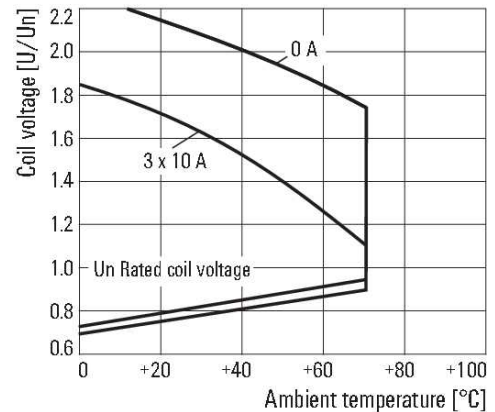


Derating curve

in combination with plug-in module

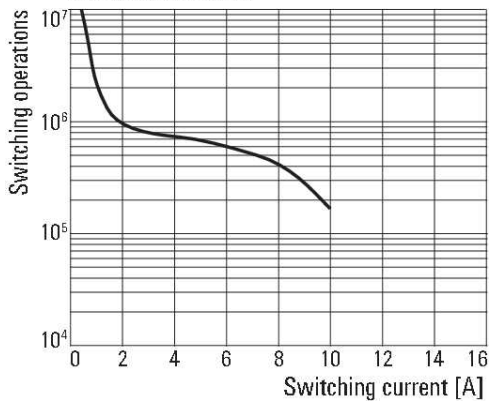


Operating voltage range DC



Electrical endurance

250 V AC Resistive load



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Accessories

LED



Pluggable protective modules for the RIDERSERIES RCI / RCM relay base, with optional protective functions.

- With either green or red LED
- For UC supply voltage

General ordering data

| Order No. | Type | Version | GTIN (EAN) | Qty. |
|----------------------------|---------------------|--------------------------|---------------|-----------|
| 8869640000 | RIM-I 3 6/24VUC GN | RIDERSERIES, Accessories | 4032248614585 | 10 pc(s). |
| 8869630000 | RIM-I 3 6/24VUC | RIDERSERIES, Accessories | 4032248614578 | 10 pc(s). |
| 8869620000 | RIM-I 3 24/60VUC GN | RIDERSERIES, Accessories | 4032248614561 | 10 pc(s). |
| 8869610000 | RIM-I 3 24/60VUC | RIDERSERIES, Accessories | 4032248614554 | 10 pc(s). |

Labelling clip



Labelling clip for marking RIDERSERIES RCM relays

General ordering data

| Order No. | Type | Version | GTIN (EAN) | Qty. |
|----------------------------|------------|----------------------|---------------|-----------|
| 8869460000 | SCM-I MARK | RIDERSERIES, Markers | 4032248614417 | 10 pc(s). |

Metal retaining clip



Metal retaining clip for RIDERSERIES RCM relays

General ordering data

| Order No. | Type | Version | GTIN (EAN) | Qty. |
|----------------------------|--------------|--------------------------|---------------|-----------|
| 8869450000 | SCM-I CLIP M | RIDERSERIES, Accessories | 4032248614301 | 10 pc(s). |

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Accessories

LED / Protective varistor



Pluggable protective modules for the RIDERSERIES RCI / RCM relay base, with optional protective functions.

- With protective varistor
- For UC supply voltage

General ordering data

| Order No. | Type | Version | GTIN (EAN) | Qty. |
|----------------------------|-------------------|--------------------------|---------------|-----------|
| 8869710000 | RIM-I 4 24VUC VAR | RIDERSERIES, Accessories | 4032248606344 | 10 pc(s). |

Plastic retaining clip



Plastic retaining clip for RIDERSERIES RCM relays

General ordering data

| Order No. | Type | Version | GTIN (EAN) | Qty. |
|----------------------------|--------------|--------------------------|---------------|-----------|
| 8869440000 | SCM-I CLIP P | RIDERSERIES, Accessories | 4032248614295 | 10 pc(s). |

LED / Freilaufdiode



Pluggable protective modules for the RIDERSERIES RCI / RCM relay base, with optional protective functions.

- With either green or red LED
- With free-wheel diode
- For DC supply voltage

General ordering data

| Order No. | Type | Version | GTIN (EAN) | Qty. |
|----------------------------|---------------------|--------------------------|---------------|-----------|
| 8869590000 | RIM-I 2 6/24VDC | RIDERSERIES, Accessories | 4032248614530 | 10 pc(s). |
| 8869670000 | RIM-I 2 24/60VDC | RIDERSERIES, Accessories | 4032248614608 | 10 pc(s). |
| 8869680000 | RIM-I 2 24/60VDC GN | RIDERSERIES, Accessories | 4032248614615 | 10 pc(s). |
| 8869600000 | RIM-I 2 6/24VDC GN | RIDERSERIES, Accessories | 4032248614547 | 10 pc(s). |

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Accessories

Protection module



Pluggable protective modules for the RIDERSERIES RCI / RCM relay base, with optional protective functions.

- Optionally with free-wheel diode, load resistor or RC filter

General ordering data

| Order No. | Type | Version | GTIN (EAN) | Qty. |
|----------------------------|----------------|--------------------------|---------------|-----------|
| 8869580000 | RIM-I 1 6/230V | RIDERSERIES, Accessories | 4032248614523 | 10 pc(s). |

Cross-connector



Cross-connector for bridging connections in the RIDERSERIES RCM

General ordering data

| Order No. | Type | Version | GTIN (EAN) | Qty. |
|----------------------------|------------|------------------------------|---------------|-----------|
| 8870850000 | SCM-I QV P | RIDERSERIES, Cross-connector | 4032248631698 | 10 pc(s). |
| 1132080000 | SCM-I QV S | RIDERSERIES, Cross-connector | 4032248912193 | 10 pc(s). |