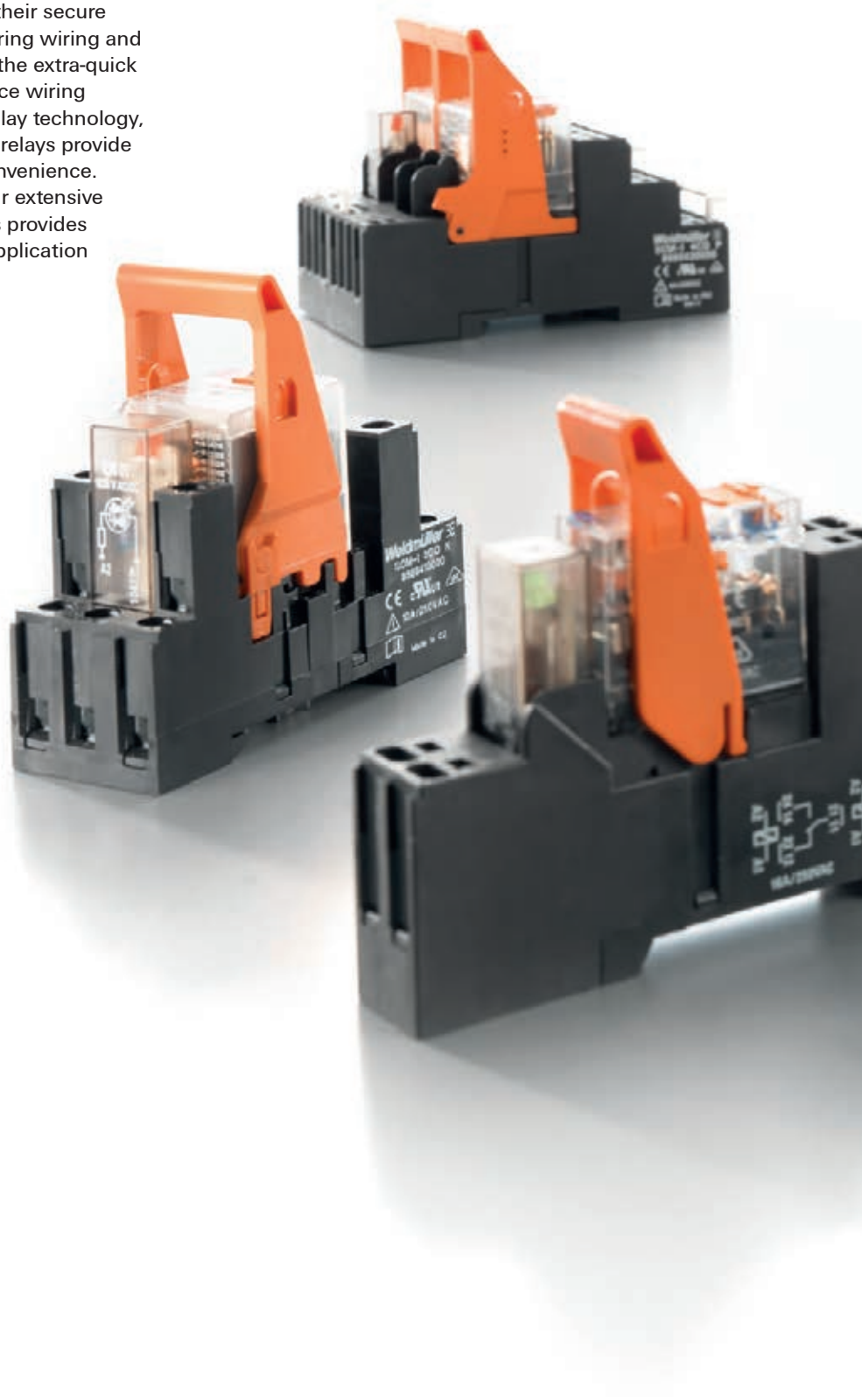
# Industrial relay modules and solid-state relays

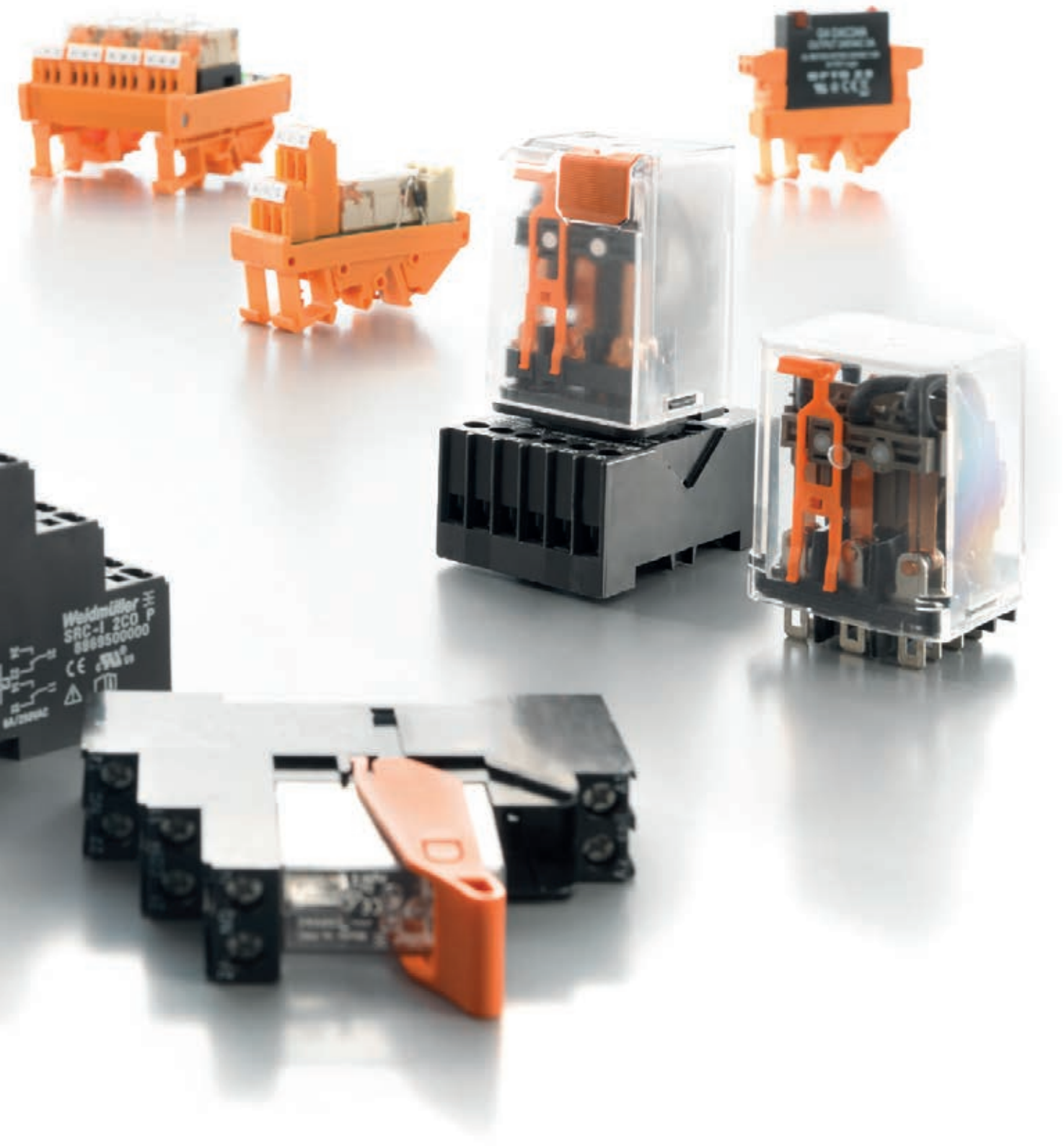

| | | |
|---|---|---|
| **Industrial relay modules and solid-state relays** | Industrial relay modules and solid-state relays – Overview | B.2 |
| | RIDERSERIES – Overview | B.4 |
| | RIDERSERIES – Relay modules | B.6 |
| | RIDERSERIES FG – Overview | B.44 |
| | RIDERSERIES FG – Relay modules | B.46 |
| | RS-SERIES – Relay modules | B.48 |
| | RSO-SERIES – Solid-state relays | B.58 |

# Industrial relay module and solid-state relay with the proven connection technology

### Easy handling and safe connections

Weidmüller's relay bases are remarkable for their secure connection systems and their ease of use during wiring and installation. Pluggable cross-connection and the extra-quick PUSH IN connection help you to further reduce wiring times. In combination with the established relay technology, Weidmüller's industrial relays and solid state relays provide users with excellent reliability and service convenience. Whether electro-mechanical or electronic, our extensive choice of relay modules and solid-state relays provides the proper solution for all of your industrial application needs.




Weidmüller
SRC-I 2CO P
8868500000

# Coupling modules - the industrial standard

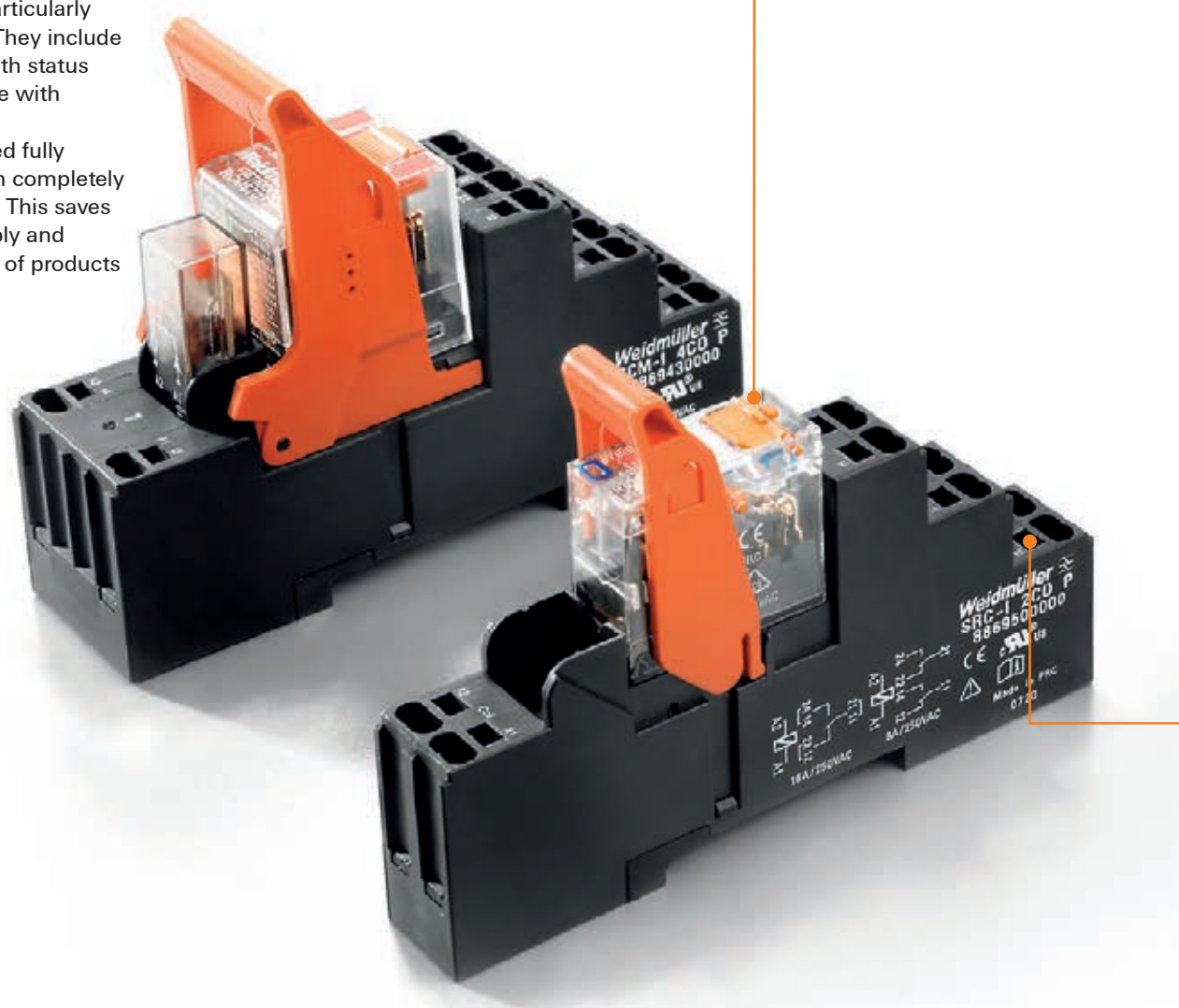
PUSH IN

**Relay module with 1 to 4 CO contacts**

The RIDER SERIES and its RCI, RCM, RRD and RPW product lines have been successfully integrated into the entire Weidmüller line of relay products. This modular-designed product series formally complies with international standards. A variety of pluggable versions are available with from one to four CO contacts and your choice of connection method.

Our innovative relay bases with PUSH IN connection systems are available for both the RCI/RCL and RCM product lines. PUSH IN technology is safe and easy to use and it allows you to reduce costs with less wiring time. The relay modules are designed for industrial applications and feature sturdy relay pins and industrial-standard pinning. A mechanically operated, stay-down test button is integrated into the design. It enables switching statuses to be simulated during initial commissioning. Additional product features include LED status indicators and free-wheel diodes (DC).

Our relay kits are particularly convenient to use. They include the relay module with status display and the base with ejection lever.
The kits are delivered fully assembled and with completely tested functionality. This saves time during assembly and educes the number of products required.

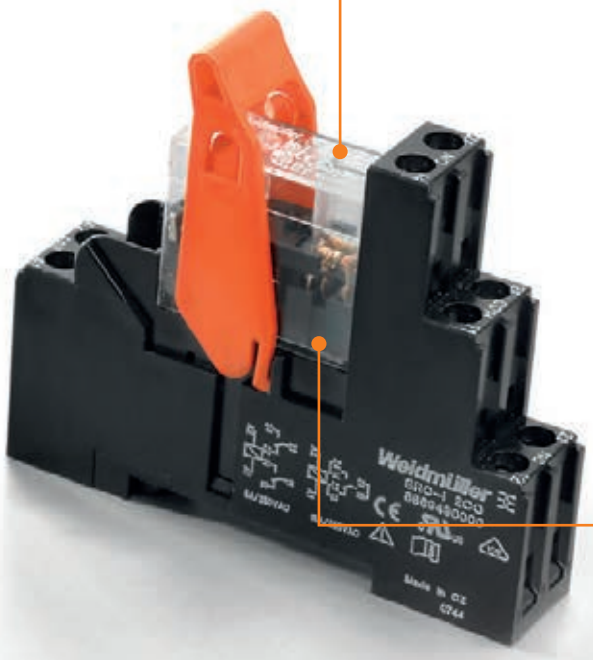


**Simple**
The stay-down test button simplifies commissioning and service work



**Customised**
Suppressor circuitry and LED can be integrated into a relay module or as a pluggable module at the base

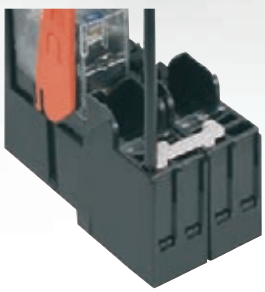




**Safe**
The heavy-duty industrial pins ensure a reliable connection



**Saves time**
No-screw PUSH IN connections and cross-connections can reduce wiring time by more than 50 %



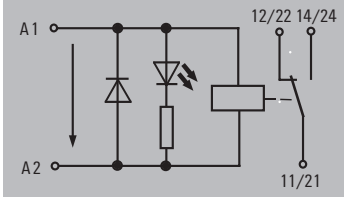
## RCI KIT with screw connection

### 1 CO

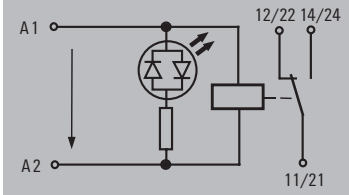
- 4000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



**DC-Version**




**AC-Version**




## Technical data

| Output | |
|---|---|
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 400 V |
| Continuous current | 16 A[1] |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 5 x $10^6$ switch. ops, DC coil 10 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 8 ms / 6 ms |
| **Rated data** | |
| Status indicator [print] / Free-wheel diode | Green LED = DC coil; red LED = AC coil / Yes |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE; GL |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | > 8 mm |
| Surge voltage category | III |
| Pollution severity | 3 |

| Dimensions | | Screw connection |
|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 2.5 |
| Length x width x height | mm | 70 / 15.5 / 77 |
| **Note** | | 1) The relay connections 11 - 21, 12 - 22 and 14 - 24 must be bridged when using the full continuous current (16 A). |

## Ordering data

| Input | 24 V DC 1CO | 24 V AC 1CO | 115 V AC 1CO | 230 V AC 1CO |
|---|---|---|---|---|
| Rated control voltage | 24 V DC | 24 V AC | 115 V AC | 230 V AC |
| Rated current AC | | 31.6 mA | 7 mA | 3.5 mA |
| Rated current DC | 16.7 mA | | | |
| Power rating | 420 mW | 0.75 VA | 0.8 VA | 0.8 VA |
| AC Response/dropout Volt | | 18 V / 3.6 V | 86.3 V / 17.3 V | 172.5 V / 34.5 V |
| DC Response/dropout Volt | 16.8 V / 2.4 V | | | |
| Coil resistance | 1440 Ω ±10 % | 350 Ω ±10 % | 8100 Ω ±15 % | 32500 Ω ±15 % |

| Ordering data Relay with socket | | | | | |
|---|---|---|---|---|---|
| w. test button | Type | RCIKIT 24VDC 1CO LD/PB | RCIKIT 24VAC 1CO LD/PB | RCIKIT 115VAC 1CO LD/PB | RCIKIT 230VAC 1CO LD/PB |
| | Order No. | **8881580000** | **8881590000** | **8897060000** | **8881600000** |
| w.o. test button | Type | RCIKIT 24VDC 1CO LED | RCIKIT 24VAC 1CO LED | RCIKIT 115VAC 1CO LD | RCIKIT 230VAC 1CO LED |
| | Order No. | **8871000000** | **8871010000** | **8897090000** | **8871020000** |

| Ordering data Spare relay | | w. test button | w.o. test button | w. test button | w.o. test button | w. test button | w.o. test button | w. test button | w.o. test button |
|---|---|---|---|---|---|---|---|---|---|
| | Type | RCI374AC4 | RCI314AC4 | RCI374R24 | RCI314R24 | RCI374S15 | RCI314S15 | RCI374T30 | RCI314T30 |
| | Order No. | **8870250000** | **8870100000** | **8870280000** | **8870130000** | **8870290000** | **8870140000** | **8870300000** | **8870150000** |

**Note**

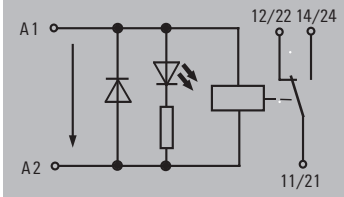
## RCI-KITP with PUSH IN connection

### 1 CO

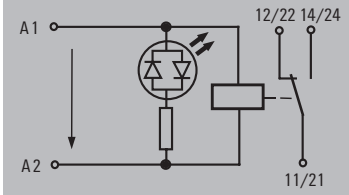
- 4000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)




**DC-Version**




**AC-Version**




## Technical data

| Output | |
|---|---|
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 400 V |
| Continuous current | 16 A[1] |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 5 x $10^6$ switch. ops, DC coil 10 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 8 ms / 6 ms |
| **Rated data** | |
| Status indicator [print] / Free-wheel diode | Green LED = DC coil; red LED = AC coil / Yes |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE; GL |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | > 8 mm |
| Surge voltage category | III |
| Pollution severity | 3 |

| Dimensions | | PUSH IN spring connection |
|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 1.5 / 0.5 / 1.5 |
| Length x width x height | mm | 70 / 15.5 / 98 |
| **Note** | | 1) The relay connections 11 - 21, 12 - 22 and 14 - 24 must be bridged when using the full continuous current (16 A). |

## Ordering data

| Input | 24 V DC 1CO | 24 V AC 1CO | 115 V AC 1CO | 230 V AC 1CO |
|---|---|---|---|---|
| Rated control voltage | 24 V DC | 24 V AC | 115 V AC | 230 V AC |
| Rated current AC | | 31.6 mA | 7 mA | 3.5 mA |
| Rated current DC | 16.7 mA | | | |
| Power rating | 420 mW | 0.75 VA | 0.8 VA | 0.8 VA |
| AC Response/dropout Volt | | 18 V / 3.6 V | 86.3 V / 17.3 V | 172.5 V / 34.5 V |
| DC Response/dropout Volt | 16.8 V / 2.4 V | | | |
| Coil resistance | 1440 Ω ±10 % | 350 Ω ±10 % | 8100 Ω ±15 % | 32500 Ω ±15 % |

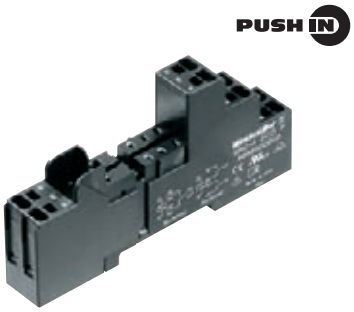
| Ordering data Relay with socket | | | | | |
|---|---|---|---|---|---|
| w. test button | Type | RCIKITP 24VDC 1CO LD/PB | RCIKITP 24VAC 1CO LD/PB | RCIKITP115VAC 1CO LD/PB | RCIKITP230VAC 1CO LD/PB |
| | Order No. | **8897190000** | **8897200000** | **8897210000** | **8897220000** |
| w.o. test button | Type | RCIKITP 24VDC 1CO LD | RCIKITP 24VAC 1CO LD | RCIKITP 115VAC 1CO LD | RCIKITP 230VAC 1CO LD |
| | Order No. | **8897110000** | **8897120000** | **8897130000** | **8897140000** |

| Ordering data Spare relay | | w. test button | w.o. test button | w. test button | w.o. test button | w. test button | w.o. test button | w. test button | w.o. test button |
|---|---|---|---|---|---|---|---|---|---|
| | Type | RCI374AC4 | RCI314AC4 | RCI374R24 | RCI314R24 | RCI374S15 | RCI314S15 | RCI374T30 | RCI314T30 |
| | Order No. | **8870250000** | **8870100000** | **8870280000** | **8870130000** | **8870290000** | **8870140000** | **8870300000** | **8870150000** |

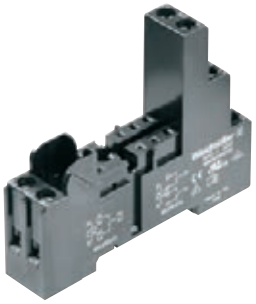
| Note | | | | |
|---|---|---|---|---|

## Accessories for RCI KIT relay modules, 1 CO

## Plug-in module with PUSH IN connection




## Plug-in module with screw connection



## Technical data

| | | |
|---|---|---|
| Rated current | 2 x 12 A*) | 2 x 12 A*) |
| Rated voltage | 240 V AC | 240 V AC |
| Dielectric strength of coil contacts | 4000 $V_{eff}$ | > 3000 $V_{eff}$ |
| Ambient temperature (operational) | -25 °C...+85 °C | -25 °C...+85 °C |
| Protection class (IEC 61810) | IP20 | IP20 |
| Approvals | VDE, cURus, CSA | VDE, cURus, CSA |
| Connection cross-section | | |
| - Solid-core wire | 2 x 1.5 $mm^2$ | 2 x 2.5 $mm^2$ |
| - Stranded wire | 2 x 1.5 $mm^2$ | 2 x 2.5 $mm^2$ |
| - with ferrule | 2 x 1.0 $mm^2$ | 2 x 1.5 $mm^2$ |
| Rated torque acc. to IEC 61984 for screw connection | | 0.5 Nm / max. 0.7 Nm |

*) For 1-pole relay modules (16 A), the following terminals must be connected: 11 with 21, 12 with 22, and 14 with 24.

## Ordering data

| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plug-in module, snaps onto TS35 DIN mounting rail, 2-pole | SRC-I 2CO P | 10 | **8869500000** |

| Type | Qty. | Order No. |
|---|---|---|
| SRC-I 2CO | 10 | **8869490000** |

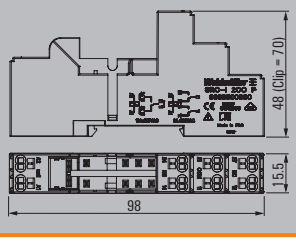
## Accessories

| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plastic retaining clip | SRC-I CLIP HP | 10 | **8869510000** |
| Metal retaining clip | SRC-I CLIP HM RCI | 20 | **1132090000** |
| Label | SRC-I MARK | 10 | **8869530000** |
| MultiCard 6x15 mm | ESG 6/15 K MC NEUTR. WS | 200 | **1880100000** |
|  Cross-connector for PUSH IN base, 2-pole, 12 A | SRC-I QV | 10 | **8870840000** |
|  Cross-connector for screw base, 8-pole | | | |

| Type | Qty. | Order No. |
|---|---|---|
| SRC-I CLIP HP | 10 | **8869510000** |
| SRC-I CLIP HM RCI | 20 | **1132090000** |
| SRC-I MARK | 10 | **8869530000** |
| ESG 6/15 K MC NEUTR. WS | 200 | **1880100000** |
| SRC-I QV S | | **1132070000** |

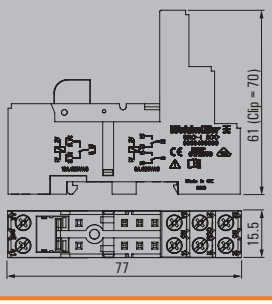
## Dimensions

SRC-I 2 CO P




## Dimensions

SRC-I 2 CO




Dimensions in mm

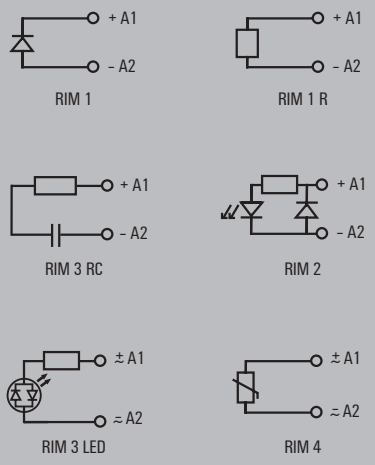
## LED and protective modules for the SRC-I plug-in frame

Simply plug into the base module; reverse-connect protection. Connect parallel to coil.

### Ordering data

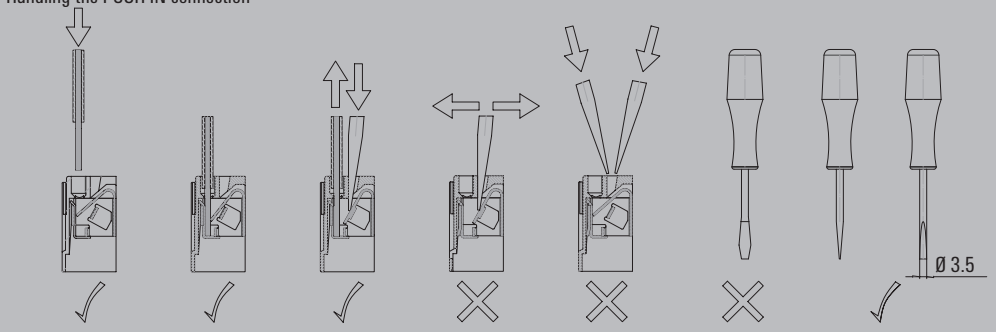
| Description |
|---|
| Free Wheel diode 1N4007 |
| Resistor 100 kΩ 1 Watt |
| RC-element 6 ... 60 V AC; 470 Ω / 220 nF |
| RC-element 110 ... 230 V AC; 4.7 Ω / 10 nF |
| Varistor protection 24 V; S07K30 |
| Varistor protection 110 V; S07K130 |
| Varistor protection 230 V; S07K275 |
| **LED** |
| LED 6 ... 24 V DC with free wheel diode |
| LED 24 ... 60 V DC with free wheel diode |
| LED 110 ... 230 V DC with free wheel diode |
| LED 6 ... 24 V DC / V AC |
| LED 24 ... 60 V DC / V AC |
| LED 110 ... 230 V DC / V AC |

| Type | Qty. | Order No. | Order No. |
|---|---|---|---|
| RIM-I 1 6/230V | 10 | **8869580000** | |
| RIM-I 1 R 110/230V | 10 | **8870830000** | |
| RIM-I 3 6/60VAC | 10 | **8869770000** | |
| RIM-I 3 110/230VAC | 10 | **8869790000** | |
| RIM-I 4 24VUC | 10 | **8869710000** | |
| RIM-I 4 110VUC | 10 | **8869730000** | |
| RIM-I 4 230VUC | 10 | **8869750000** | |
| | | **red** | **green** |
| RIM-I 2 6/24VDC | 10 | **8869590000** | **8869600000** |
| RIM-I 2 24/60VDC | 10 | **8869670000** | **8869680000** |
| RIM-I 2 110/230VDC | 10 | **8869690000** | **8869700000** |
| RIM-I 3 6/24VUC | 10 | **8869630000** | **8869640000** |
| RIM-I 3 24/60VUC | 10 | **8869610000** | **8869620000** |
| RIM-I 3 110/230VUC | 10 | **8869650000** | **8869660000** |



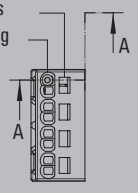

## Warnings and notes on usage

Handling the PUSH IN connection

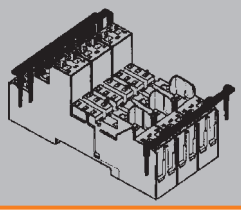



Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening

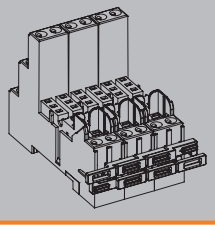



Cross-connector mounting for PUSH IN base



If more than two poles need to be connected with stacked cross-connector ridges, then the lower ridge must be stripped and shortened to the proper length so it will fit.

Cross-connector mounting for screw base



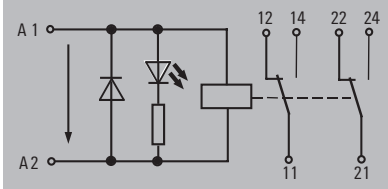
## RCI KIT with screw connection

## 2 CO

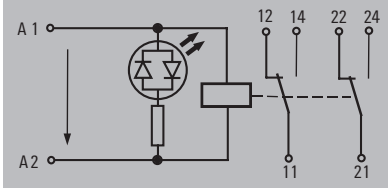
- 2000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



**DC-Version**




**AC-Version**




### Technical data

| | |
|---|---|
| **Output** | |
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 400 V |
| Continuous current | 8 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 5 x $10^6$ switch. ops, DC coil 10 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 10 ms / 4 ms |
| **Rated data** | |
| Status indicator [print] / Free-wheel diode | Green LED = DC coil; red LED = AC coil / Yes |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE; GL |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | > 8 mm |
| Surge voltage category | III |
| Pollution severity | 2 |

| **Dimensions** | | **Screw connection** |
|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 2.5 |
| Length x width x height | mm | 70 / 15.5 / 77 |
| **Note** | | |

### Ordering data

| **Input** | **24 V DC 2CO** | **24 V AC 2CO** | **115 V AC 2CO** | **230 V AC 2CO** |
|---|---|---|---|---|
| Rated control voltage | 24 V DC | 24 V AC | 115 V AC | 230 V AC |
| Rated current AC | | 31.6 mA | 7 mA | 3.5 mA |
| Rated current DC | 16.7 mA | | | |
| Power rating | 420 mW | 0.75 VA | 0.8 VA | 0.8 VA |
| AC Response/dropout Volt | | 18 V / 3.6 V | 86.3 V / 17.3 V | 172.5 V / 34.5 V |
| DC Response/dropout Volt | 16.8 V / 2.4 V | | | |
| Coil resistance | 1440 Ω ±10 % | 350 Ω ±10 % | 8100 Ω ±15 % | 32500 Ω ±15 % |

| **Ordering data Relay with socket** | | | | | |
|---|---|---|---|---|---|
| w. test button | Type | RCIKIT 24VDC 2CO LD/PB | RCIKIT 24VAC 2CO LD/PB | RCIKIT 115VAC 2CO LD/PB | RCIKIT 230VAC 2CO LD/PB |
| | Order No. | **8881610000** | **8881620000** | **8897080000** | **8881630000** |
| w.o. test button | Type | RCIKIT 24VDC 2CO LED | RCIKIT 24VAC 2CO LED | RCIKIT 115VAC 2CO LD | RCIKIT 230VAC 2CO LED |
| | Order No. | **8871030000** | **8871040000** | **8897100000** | **8871050000** |

| **Ordering data Spare relay** | | **w. test button** | **w.o. test button** | **w. test button** | **w.o. test button** | **w. test button** | **w.o. test button** | **w. test button** | **w.o. test button** |
|---|---|---|---|---|---|---|---|---|---|
| | Type | RCI484AC4 | RCI424AC4 | RCI484R24 | RCI424R24 | RCI484S15 | RCI424S15 | RCI484T30 | RCI424T30 |
| | Order No. | **8870320000** | **8870180000** | **8870350000** | **8870210000** | **8870360000** | **8870220000** | **8870370000** | **8870230000** |

| **Note** | | | | | |
|---|---|---|---|---|---|

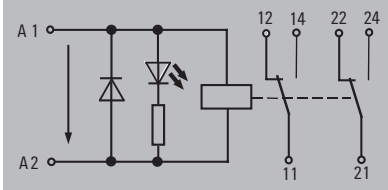
## RCI-KITP with PUSH IN connection

### 2 CO

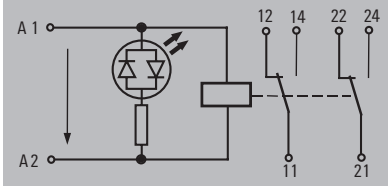
- 2000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)




**DC-Version**




**AC-Version**




## Technical data

| | |
|---|---|
| **Output** | |
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 400 V |
| Continuous current | 8 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 5 x $10^6$ switch. ops, DC coil 10 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 10 ms / 4 ms |
| **Rated data** | |
| Status indicator [print] / Free-wheel diode | Green LED = DC coil; red LED = AC coil / Yes |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE; GL |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | > 8 mm |
| Surge voltage category | III |
| Pollution severity | 2 |

| **Dimensions** | | **PUSH IN spring connection** |
|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 1.5 / 0.5 / 1.5 |
| Length x width x height | mm | 70 / 15.5 / 98 |
| **Note** | | |

## Ordering data

| | 24 V DC 2CO | 24 V AC 2CO | 115 V AC 2CO | 230 V AC 2CO |
|---|---|---|---|---|
| **Input** | | | | |
| Rated control voltage | 24 V DC | 24 V AC | 115 V AC | 230 V AC |
| Rated current AC | | 31.6 mA | 7 mA | 3.5 mA |
| Rated current DC | 16.7 mA | | | |
| Power rating | 420 mW | 0.75 VA | 0.8 VA | 0.8 VA |
| AC Response/dropout Volt | | 18 V / 3.6 V | 86.3 V / 17.3 V | 172.5 V / 34.5 V |
| DC Response/dropout Volt | 16.8 V / 2.4 V | | | |
| Coil resistance | 1440 Ω ±10 % | 350 Ω ±10 % | 8100 Ω ±15 % | 32500 Ω ±15 % |

| **Ordering data Relay with socket** | | | | | |
|---|---|---|---|---|---|
| w. test button | Type | RCIKITP 24VDC 2CO LD/PB | RCIKITP 24VAC 2CO LD/PB | RCIKITP115VAC 2CO LD/PB | RCIKITP230VAC 2CO LD/PB |
| | Order No. | **8897230000** | **8897240000** | **8897250000** | **8897260000** |
| w.o. test button | Type | RCIKITP 24VDC 2CO LD | RCIKITP 24VAC 2CO LD | RCIKITP 115VAC 2CO LD | RCIKITP 230VAC 2CO LD |
| | Order No. | **8897150000** | **8897160000** | **8897170000** | **8897180000** |

| **Ordering data Spare relay** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | **w. test button** | **w.o. test button** | **w. test button** | **w.o. test button** | **w. test button** | **w.o. test button** | **w. test button** | **w.o. test button** |
| | Type | RCI484AC4 | RCI424AC4 | RCI484R24 | RCI424R24 | RCI484S15 | RCI424S15 | RCI484T30 | RCI424T30 |
| | Order No. | **8870320000** | **8870180000** | **8870350000** | **8870210000** | **8870360000** | **8870220000** | **8870370000** | **8870230000** |

| **Note** | | | | |
|---|---|---|---|---|
| | | | | |

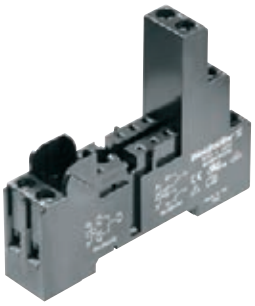
## Accessories for RCI KIT relay modules, 2 CO

### Plug-in module with PUSH IN connection



### Plug-in module with screw connection

**Standard height**



### Plug-in module with screw connection

**Low height**



## Technical data

| | | | |
|---|---|---|---|
| Rated current | 2 x 12 A | 2 x 12 A | 2 x 12 A |
| Rated voltage | 240 V AC | 240 V AC | 240 V AC |
| Dielectric strength of coil contacts | 4000 $V_{eff}$ | > 3000 $V_{eff}$ | > 3000 $V_{eff}$ |
| Ambient temperature (operational) | -25 °C...+85 °C | -25 °C...+85 °C | -25 °C...+85 °C |
| Protection class (IEC 61810) | IP20 | IP20 | IP20 |
| Stripping length | 12 mm | 8 mm | 8 mm |
| Approvals | VDE, cURus, CSA | VDE, cURus, CSA | VDE, cURus, CSA |
| Connection cross-section | | | |
| - Solid-core wire | 1 x 1.5 mm² / 2 x 1.0 mm² | 2 x 2.5 mm² | 2 x 2.5 mm² |
| - Stranded wire | 1 x 1.5 mm² / 2 x 1.0 mm² | 2 x 2.5 mm² | 2 x 2.5 mm² |
| - with ferrule | 1 x 1.0 mm² / 2 x 0.75 mm² | 2 x 1.5 mm² | 2 x 1.5 mm² |
| Rated torque acc. to IEC 61984 for screw connection | | 0.5 Nm / max. 0.7 Nm | 0.5 Nm / max. 0.7 Nm |

## Ordering data

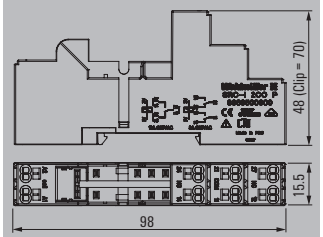
| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plug-in module, snaps onto TS35 DIN mounting rail, 2-pole | SRC-I 2CO P | | **8869500000** |
| | SRC-I 2CO | | **8869490000** |
| | SRC-I 2CO N | | **8869480000** |

## Accessories

| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plastic retaining clip | SRC-I CLIP HP | 10 | **8869510000** |
| Metal retaining clip | SRC-I CLIP HM RCI | 20 | **1132090000** |
| Label | SRC-I MARK | 10 | **8869530000** |
| MultiCard 6x15 mm | ESG 6/15 K MC NEUTR. WS | 200 | **1880100000** |
|  Cross-connector for PUSH IN base, 2-pole, 12 A | SRC-I QV P | | **8870840000** |
|  Cross-connector for screw base, 8-pole | SRC-I QV S | | **1132070000** |

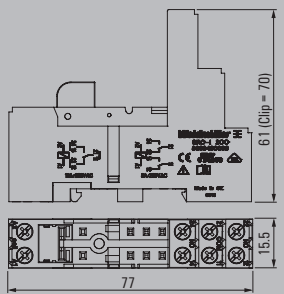
## Dimensions

SRC-I 2 CO P



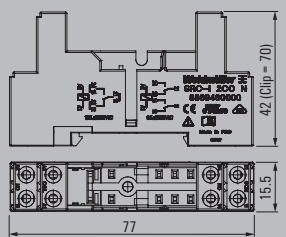

## Dimensions

SRC-I 2 CO




## Dimensions

SRC-I 2 CO N




Dimensions in mm

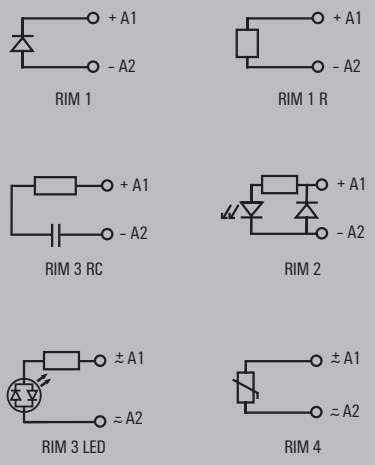
## LED and protective modules for the SRC-I plug-in frame

Simply plug into the base module; reverse-connect protection. Connect parallel to coil.

### Ordering data

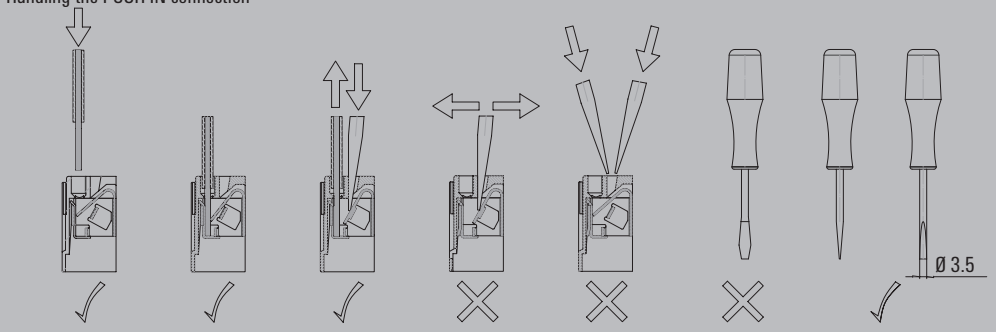
| Description |
|---|
| Free Wheel diode 1N4007 |
| Resistor 100 kΩ 1 Watt |
| RC-element 6 ... 60 V AC; 470 Ω / 220 nF |
| RC-element 110 ... 230 V AC; 4.7 Ω / 10 nF |
| Varistor protection 24 V; S07K30 |
| Varistor protection 110 V; S07K130 |
| Varistor protection 230 V; S07K275 |
| **LED** |
| LED 6 ... 24 V DC with free wheel diode |
| LED 24 ... 60 V DC with free wheel diode |
| LED 110 ... 230 V DC with free wheel diode |
| LED 6 ... 24 V DC / V AC |
| LED 24 ... 60 V DC / V AC |
| LED 110 ... 230 V DC / V AC |

| Type | Qty. | Order No. | Order No. |
|---|---|---|---|
| RIM-I 1 6/230V | 10 | **8869580000** | |
| RIM-I 1 R 110/230V | 10 | **8870830000** | |
| RIM-I 3 6/60VAC | 10 | **8869770000** | |
| RIM-I 3 110/230VAC | 10 | **8869790000** | |
| RIM-I 4 24VUC | 10 | **8869710000** | |
| RIM-I 4 110VUC | 10 | **8869730000** | |
| RIM-I 4 230VUC | 10 | **8869750000** | |
| | | **red** | **green** |
| RIM-I 2 6/24VDC | 10 | **8869590000** | **8869600000** |
| RIM-I 2 24/60VDC | 10 | **8869670000** | **8869680000** |
| RIM-I 2 110/230VDC | 10 | **8869690000** | **8869700000** |
| RIM-I 3 6/24VUC | 10 | **8869630000** | **8869640000** |
| RIM-I 3 24/60VUC | 10 | **8869610000** | **8869620000** |
| RIM-I 3 110/230VUC | 10 | **8869650000** | **8869660000** |



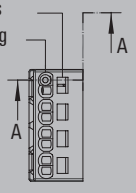

## Warnings and notes on usage

Handling the PUSH IN connection

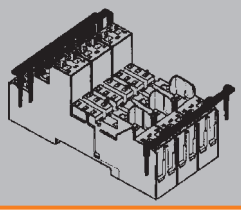



Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening

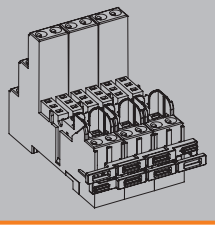



Cross-connector mounting for PUSH IN base



If more than two poles need to be connected with stacked cross-connector ridges, then the lower ridge must be stripped and shortened to the proper length so it will fit.

Cross-connector mounting for screw base



## RCI relay

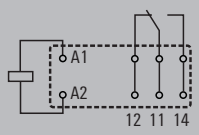
## 1 CO AC/DC coil

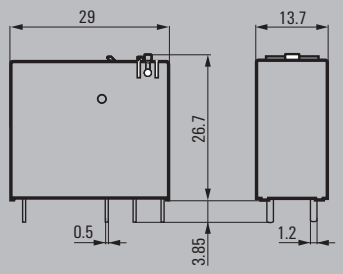
- 4000 VA switching capacity
- Stable plug-in connections
- Optional test button with latching function and inspection window
- Optional status indicator (AC red/ DC green)
- Optional protective suppressor circuit
- Identification of coils (AC red / DC blue)



**Circuit diagram**
View on solder pins
dimensions in mm

1 C/O changeover contacts




## Technical data

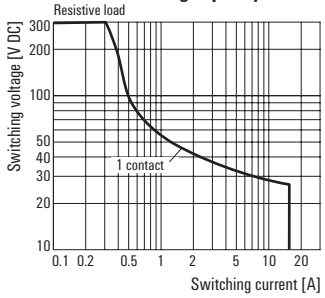
| | |
|---|---|
| **Output** | |
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 400 V |
| Continuous current | 16 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 5 x $10^6$ switch. ops, DC coil 10 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 8 ms / 6 ms |
| **Rated data** | |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CSA; cURus; VDE |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | > 8 mm |
| Surge voltage category | III |
| Pollution severity | 3 |

| **Dimensions** | | **Plug-in connection** |
|---|---|---|
| Length x width x height | mm | 29 / 13.7 / x |
| **Note** | | x = 25.5 without test button / 26.7 with test button |

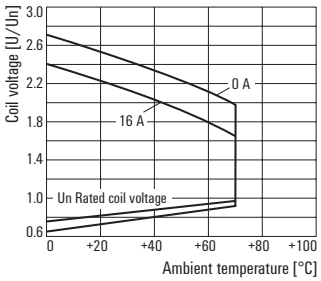
## Applications

### DC load breaking capacity

Resistive load

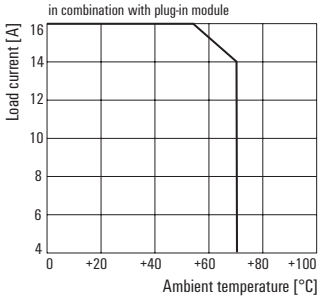



### Operating voltage range DC



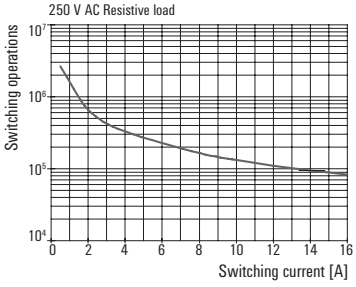

### Derating curve

in combination with plug-in module

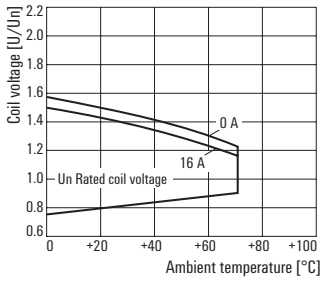



### Electrical endurance

250 V AC Resistive load




### Operating voltage range AC



## RCI relay
## 1 CO AC/DC coil

**Type code** RCI

**Type** RIDER Control Industrial

**Type of construction**
- 3 1-pole, 16 A
- 4 2-pole, 8 A

**Type of contact**
- 1 1 CO contact without test button
- 2 2 CO contacts without test button
- 7 1 CO contact with test button
- 8 2 CO contacts with test button

**Contact material**
- 4 AgNi 90/10

**Coil**

| | |
|---|---|
| 012 | 12 V DC |
| 024 | 24 V DC |
| 048 | 48 V DC |
| 110 | 110 V DC |
| 524 | 24 V AC |
| 615 | 115 V AC |
| 730 | 230 V AC |
| AB2 | 12 V DC+LED+diode |
| AC4 | 24 V DC+LED+diode |
| AE8 | 48 V DC+LED+diode |
| BB0 | 110 V DC+LED+diode |
| R24 | 24 V AC+LED |
| S15 | 115 V AC+LED |
| T30 | 230 V AC+LED |

## Ordering data

| Input | 12 V DC 1CO | 24 V DC 1CO | 48 V DC 1CO | 110 V DC 1CO |
|---|---|---|---|---|
| Rated control voltage | 12 V DC | 24 V DC | 48 V DC | 110 V DC |
| DC Response/dropout Volt | 8.4 V / 1.2 V | 16.8 V / 2.4 V | 33.6 V / 4.8 V | 77 V / 11 V |
| Power rating | 400 mW | 400 mW | 400 mW | 400 mW |
| Rated current DC | 33.3 mA | 16.7 mA | 8.7 mA | 4.1 mA |
| Coil resistance | 360 Ω ±10 % | 1440 Ω ±10 % | 5520 Ω ±10 % | 28800 Ω ±12 % |

| Ordering data Relay | | | | | |
|---|---|---|---|---|---|
| Standard | Type | RCI314012 | RCI314024 | RCI314048 | RCI314110 |
| | Order No. | **8869800000** | **8869810000** | **8869820000** | **8869830000** |
| w. test button | Type | RCI374012 | RCI374024 | RCI374048 | RCI374110 |
| | Order No. | **8869950000** | **8869960000** | **8869970000** | **8869980000** |
| With LED + freewheel diode | Type | RCI314AB2 | RCI314AC4 | RCI314AE8 | RCI314BB0 |
| | Order No. | **8870090000** | **8870100000** | **8870110000** | **8870120000** |
| With test button + LED | Type | RCI374AB2 | RCI374AC4 | RCI374AE8 | RCI374BB0 |
| + Free-wheel diode | Order No. | **8870240000** | **8870250000** | **8870260000** | **8870270000** |

**Note**

## Ordering data

| Input | 24 V AC 1CO | 115 V AC 1CO | 230 V AC 1CO |
|---|---|---|---|
| Rated control voltage | 24 V AC | 115 V AC | 230 V AC |
| AC Response/dropout Volt | 18 V / 3.6 V | 86.3 V / 17.3 V | 172.5 V / 34.5 V |
| Power rating | 0.75 VA | 0.75 VA | 0.75 VA |
| Rated current AC | 31.6 mA | 6.6 mA | 3.2 mA |
| Coil resistance | 350 Ω ±10 % | 8100 Ω ±15 % | 32500 Ω ±15 % |

| Ordering data Relay | | | | |
|---|---|---|---|---|
| Standard | Type | RCI314524 | RCI314615 | RCI314730 |
| | Order No. | **8869840000** | **8869850000** | **8869860000** |
| w. test button | Type | RCI374524 | RCI374615 | RCI374730 |
| | Order No. | **8869990000** | **8870000000** | **8870010000** |
| with LED | Type | RCI314R24 | RCI314S15 | RCI314T30 |
| | Order No. | **8870130000** | **8870140000** | **8870150000** |
| With test button + LED | Type | RCI374R24 | RCI374S15 | RCI374T30 |
| | Order No. | **8870280000** | **8870290000** | **8870300000** |

**Note**

## RCI relay

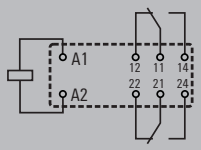
## 2 CO AC/DC coil

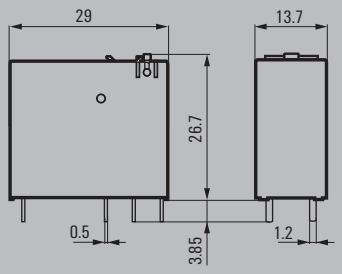
- 2000 VA switching capacity
- Stable plug-in connections
- Optional test button with latching function and inspection window
- Optional status indicator (AC red / DC green)
- Optional protective suppressor circuit
- Identification of coils (AC red / DC blue)



**Circuit diagram**
View on solder pins
dimensions in mm

2 C/O changeover contacts




## Technical data

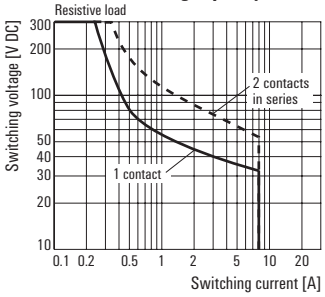
| | |
|---|---|
| **Output** | |
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 400 V |
| Continuous current | 8 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 5 x $10^6$ switch. ops, DC coil 10 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 10 ms / 4 ms |
| **Rated data** | |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CSA; cURus; VDE |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | > 8 mm |
| Surge voltage category | III |
| Pollution severity | 3 |

| **Dimensions** | | **Plug-in connection** |
|---|---|---|
| Length x width x height | mm | 29 / 13.7 / x |
| **Note** | | x = 25.5 without test button / 26.7 with test button |

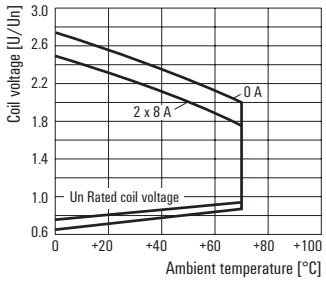
## Applications

### DC load breaking capacity

Resistive load

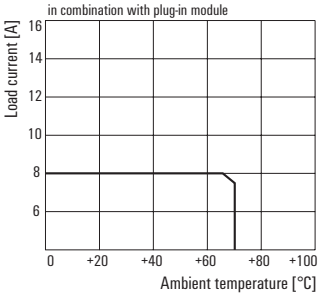



### Operating voltage range DC



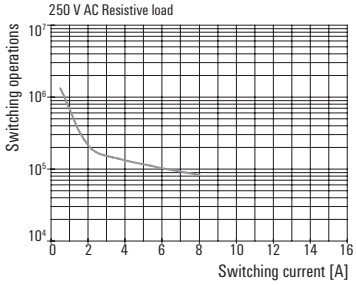

### Derating curve

in combination with plug-in module

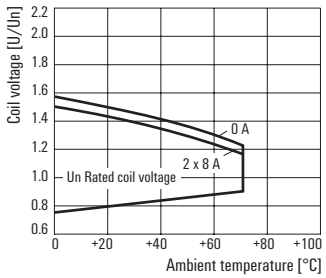



### Electrical endurance

250 V AC Resistive load




### Operating voltage range AC



## RCI relay
## 2 CO AC/DC coil

**Type code** RCI

**Type** RIDER Control Industrial

**Type of construction**
- 3 1-pole, 16 A
- 4 2-pole, 8 A

**Type of contact**
- 1 1 CO contact without test button
- 2 2 CO contacts without test button
- 7 1 CO contact with test button
- 8 2 CO contacts with test button

**Contact material**
- 4 AgNi 90/10

**Coil**

| | |
|---|---|
| 012 | 12 V DC |
| 024 | 24 V DC |
| 048 | 48 V DC |
| 110 | 110 V DC |
| 524 | 24 V AC |
| 615 | 115 V AC |
| 730 | 230 V AC |
| AB2 | 12 V DC+LED+diode |
| AC4 | 24 V DC+LED+diode |
| AE8 | 48 V DC+LED+diode |
| BB0 | 110 V DC+LED+diode |
| R24 | 24 V AC+LED |
| S15 | 115 V AC+LED |
| T30 | 230 V AC+LED |

## Ordering data

| Input | 12 V DC 2CO | 24 V DC 2CO | 48 V DC 2CO | 110 V DC 2CO |
|---|---|---|---|---|
| Rated control voltage | 12 V DC | 24 V DC | 48 V DC | 110 V DC |
| DC Response/dropout Volt | 8.4 V / 1.2 V | 16.8 V / 2.4 V | 33.6 V / 4.8 V | 77 V / 11 V |
| Power rating | 400 mW | 400 mW | 400 mW | 400 mW |
| Rated current DC | 33.3 mA | 16.7 mA | 8.7 mA | 4.1 mA |
| Coil resistance | 360 Ω ±10 % | 1440 Ω ±10 % | 5520 Ω ±10 % | 28800 Ω ±12 % |

| Ordering data Relay | | | | | |
|---|---|---|---|---|---|
| Standard | Type | RCI424012 | RCI424024 | RCI424048 | RCI424110 |
| | Order No. | **8869870000** | **8869890000** | **8869900000** | **8869910000** |
| w. test button | Type | RCI484012 | RCI484024 | RCI484048 | RCI484110 |
| | Order No. | **8870020000** | **8870030000** | **8870040000** | **8870050000** |
| With LED + freewheel diode | Type | RCI424AB2 | RCI424AC4 | RCI424AE8 | RCI424BB0 |
| | Order No. | **8870170000** | **8870180000** | **8870190000** | **8870200000** |
| With test button + LED | Type | RCI484AB2 | RCI484AC4 | RCI484AE8 | RCI484BB0 |
| + Free-wheel diode | Order No. | **8870310000** | **8870320000** | **8870330000** | **8870340000** |

**Note**

## Ordering data

| Input | 24 V AC 2CO | 115 V AC 2CO | 230 V AC 2CO |
|---|---|---|---|
| Rated control voltage | 24 V AC | 115 V AC | 230 V AC |
| AC Response/dropout Volt | 18 V / 3.6 V | 86.3 V / 17.3 V | 172.5 V / 34.5 V |
| Power rating | 0.75 VA | 0.75 VA | 0.75 VA |
| Rated current AC | 31.6 mA | 6.6 mA | 3.2 mA |
| Coil resistance | 350 Ω ±10 % | 8100 Ω ±15 % | 32500 Ω ±15 % |

| Ordering data Relay | | | | |
|---|---|---|---|---|
| Standard | Type | RCI424524 | RCI424615 | RCI424730 |
| | Order No. | **8869920000** | **8869930000** | **8869940000** |
| w. test button | Type | RCI484524 | RCI484615 | RCI484730 |
| | Order No. | **8870060000** | **8870070000** | **8870080000** |
| with LED | Type | RCI424R24 | RCI424S15 | RCI424T30 |
| | Order No. | **8870210000** | **8870220000** | **8870230000** |
| With test button + LED | Type | RCI484R24 | RCI484S15 | RCI484T30 |
| | Order No. | **8870350000** | **8870360000** | **8870370000** |

**Note**

## RCM KIT
## 2 CO AC/DC coil

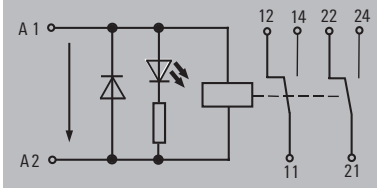
Modular system comprising:
- Relay socket for rail mounting
- LED display unit (AC red / DC green)
- Retaining clip
- Pluggable relays with coil identification (AC red / DC blue)
- Markers

Independent of connection system:
- Screw or PUSH IN connection system

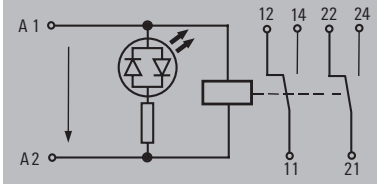





**DC-Version**




**AC-Version**




## Technical data

| | |
|---|---|
| **Output** | |
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 400 V |
| Continuous current | 12 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 20 x $10^6$ switch. ops, DC coil 30 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 15 ms / 10 ms |
| **Rated data** | |
| Status indicator / Free-wheel diode | Green LED = DC coil; red LED = AC coil / Yes |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE; GL |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 240 V |
| Clearance and creepage distances for control side - load side | ≥ 4 mm |
| Surge voltage category | III |
| Pollution severity | 2 |

| **Dimensions** | | **Screw connection** | **PUSH IN spring connection** |
|---|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 2.5 | 1.5 / 0.5 / 1.5 |
| Length x width x height | mm | 75 / 28 / 82 | 96 / 28 / 98 |
| **Note** | | | |

## Ordering data

| | 24 V DC 2CO LED | 24 V AC 2CO LED | 115 V AC 2CO LED | 230 V AC 2CO LED |
|---|---|---|---|---|
| **Input** | | | | |
| Rated control voltage | 24 V DC | 24 V AC | 115 V AC | 230 V AC |
| Rated current AC | | 41.6 mA | 8.8 mA | 4.3 mA |
| Rated current DC | 31.3 mA | | | |
| Power rating | 740 mW | 1.0 VA | 1.0 VA | 1.0 VA |
| AC Response/dropout Volt | | 19.2 V / 7.2 V | 92 V / 34.5 V | 184.0 V / 69.0 V |
| DC Response/dropout Volt | 18.0 V / 2.4 V | | | |

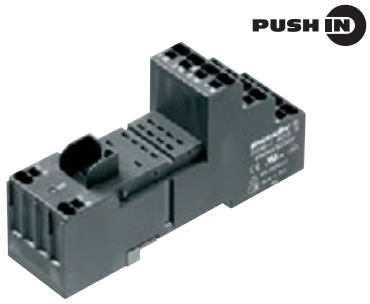
| **Ordering data Relay with socket** | | | | | |
|---|---|---|---|---|---|
| Screw connection | Type | RCMKIT-I 24VDC 2CO LD | RCMKIT-I 24VAC 2CO LD | RCMKIT-I 115VAC 2CO LD | RCMKIT-I 230VAC 2CO LD |
| | Order No. | **8920940000** | **8920950000** | **8920960000** | **8920970000** |
| PUSH IN connection | Type | RCMKITP-I 24VDC 2CO LD | RCMKITP-I 24VAC 2CO LD | RCMKITP-I 115VAC 2CO LD | RCMKITP-I 230VAC 2CO LD |
| | Order No. | **8921080000** | **8921090000** | **8921100000** | **8921110000** |

| **Ordering data Spare relay (pluggable)** | | | | | |
|---|---|---|---|---|---|
| | Type | RCM270024 | RCM270524 | RCM270615 | RCM270730 |
| | Order No. | **8689860000** | **8689760000** | **8689800000** | **8689820000** |

| **Note** | | | | |
|---|---|---|---|---|

## Accessories for RCM KIT relay modules, 2 CO

### Plug-in module with PUSH IN connection




### Plug-in module with screw connection



## Technical data

| | | |
|---|---|---|
| Rated current | 12 A | 12 A |
| Rated voltage | 240 V AC | 240 V AC |
| Dielectric strength of coil contacts | > 2500 $V_{eff}$ | > 2500 $V_{eff}$ |
| Ambient temperature (operational) | -45...+70 °C | -45...+70 °C |
| Insulation group (VDE 0110b) | C / 250 V AC | C / 250 V AC |
| Protection class (IEC 61810) | IP20 | IP20 |
| Stripping length | 12 mm | 8 mm |
| Approvals | VDE, cURus, CSA | VDE, cURus, CSA |
| Connection cross-section | | |
| - Solid-core wire | 1 x 0.75/1/1.5 $mm^2$ / 2 x 0.75/1 $mm^2$ | 2 x 2.5 $mm^2$ |
| - Stranded wire | 1 x 0.75/1/1.5 $mm^2$ / 2 x 0.75/1 $mm^2$ | 2 x 2.5 $mm^2$ |
| - with ferrule | 1 x 0.75/1 $mm^2$ / 2 x 0.75 $mm^2$ | 2 x 1.5 $mm^2$ |
| Rated torque acc. to IEC 61984 for screw connection | | 0.5 Nm / max. 0.7 Nm |
| Plug-in cycles | A (10) | A (10) |

## Ordering data

| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plug-in module, snaps onto TS35 DIN mounting rail, 2-pole | SCM-I 2CO P | | **8876220000** |

| Type | Qty. | Order No. |
|---|---|---|
| SCM-I 2CO | | **8869400000** |

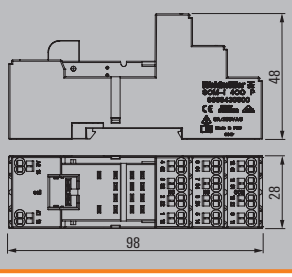
## Accessories

| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plastic retaining clip | SCM-I CLIP P | 10 | **8869440000** |
| Metal retaining clip | SCM-I CLIP M | 10 | **8869450000** |
| Marker | SCM-I MARK | 10 | **8869460000** |
| Marker, Multicard | ESG 9/11 K MC neutral | 200 | **1857440000** |
| Cross-connector for PUSH IN base, 2-pole, 12 A | SCM-I QV P | 10 | **8870850000** |
| Cross-connector for screw base, 6-pole | | | |

| Type | Qty. | Order No. |
|---|---|---|
| SCM-I CLIP P | 10 | **8869440000** |
| SCM-I CLIP M | 10 | **8869450000** |
| SCM-I MARK | 10 | **8869460000** |
| ESG 9/11 K MC neutral | 200 | **1857440000** |
| SCM-I QV S | 10 | **1132080000** |

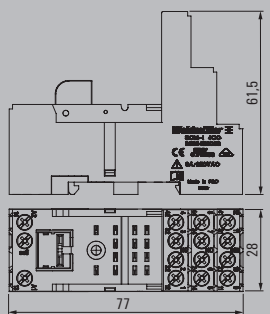
## Dimensions

SCM-I 2CO P




## Dimensions

SCM-I 2CO




Dimensions in mm

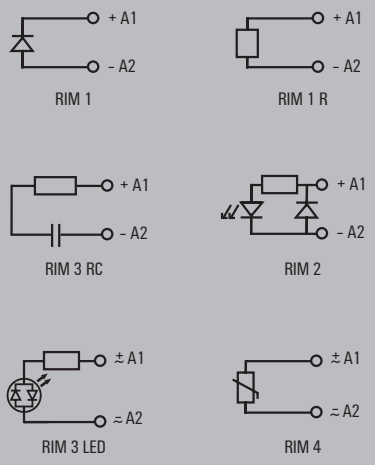
## LED and protective modules for the SCM-I plug-in frame

Plug simply into the base module; reverse-connect protection. Connect parallel to coil.

### Ordering data

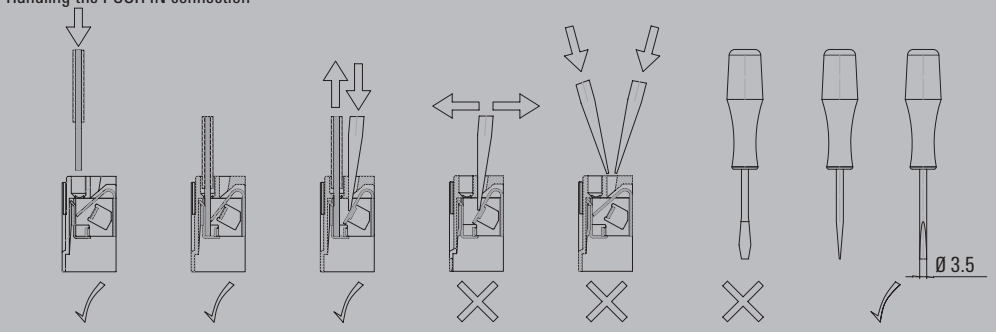
| Description |
|---|
| Free Wheel diode 1N4007 |
| Resistor 100 kΩ 1 Watt |
| RC element 6 ... 60 V AC; 470 Ω / 220 nF |
| RC element 110 ... 230 V AC; 4.7 Ω / 10 nF |
| Varistor protection 24 V; S07K30 |
| Varistor protection 110 V; S07K130 |
| Varistor protection 230 V; S07K275 |
| **LED** |
| LED 6 ... 24 V DC with free wheel diode |
| LED 24 ... 60 V DC with free wheel diode |
| LED 110 ... 230 V DC with free wheel diode |
| LED 6 ... 24 V DC / V AC |
| LED 24 ... 60 V DC / V AC |
| LED 110 ... 230 V DC / V AC |

| Type | Qty. | Order No. | Order No. |
|---|---|---|---|
| RIM-I 1 6/230V | 10 | **8869580000** | |
| RIM-I 1 R 110/230V | 10 | **8870830000** | |
| RIM-I 3 6/60VAC | 10 | **8869770000** | |
| RIM-I 3 110/230VAC | 10 | **8869790000** | |
| RIM-I 4 24VUC | 10 | **8869710000** | |
| RIM-I 4 110VUC | 10 | **8869730000** | |
| RIM-I 4 230VUC | 10 | **8869750000** | |
| | | **red** | **green** |
| RIM-I 2 6/24VDC | 10 | **8869590000** | **8869600000** |
| RIM-I 2 24/60VDC | 10 | **8869670000** | **8869680000** |
| RIM-I 2 110/230VDC | 10 | **8869690000** | **8869700000** |
| RIM-I 3 6/24VUC | 10 | **8869630000** | **8869640000** |
| RIM-I 3 24/60VUC | 10 | **8869610000** | **8869620000** |
| RIM-I 3 110/230VUC | 10 | **8869650000** | **8869660000** |



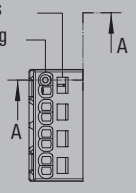

## Warnings and notes on usage

Handling the PUSH IN connection

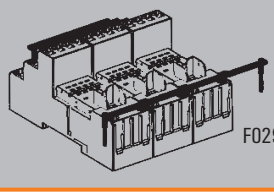



Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening



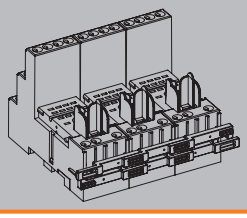

Cross-connector mounting for PUSH IN base



F0295-A

If more than two poles need to be connected with stacked cross-connector ridges, then the lower ridge must be stripped and shortened to the proper length so it will fit.

Cross-connector mounting for screw base



## RCM KIT

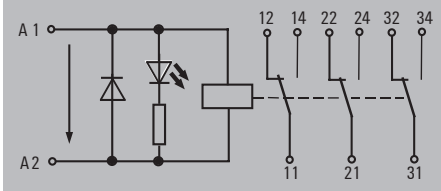
### 3 CO AC/DC coil

Modular system comprising:

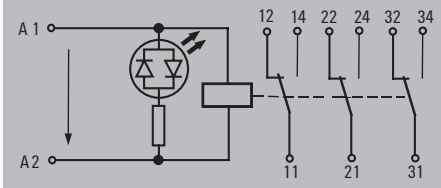
- Relay socket for rail mounting
- LED display unit (AC red / DC green)
- Retaining clip
- Pluggable relay modules
- Identification of coils (AC red / DC blue)
- Markers



**DC-Version**




**AC-Version**




## Technical data

| | |
|---|---|
| **Output** | |
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 400 V |
| Continuous current | 10 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 20 x $10^6$ switch. ops, DC coil 30 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 15 ms / 10 ms |
| **Rated data** | |
| Status indicator / Free-wheel diode | Green LED = DC coil; red LED = AC coil / Yes |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE; GL |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 240 V |
| Clearance and creepage distances for control side - load side | ≥ 4 mm |
| Surge voltage category | III |
| Pollution severity | 2 |

| **Dimensions** | | **Screw connection** |
|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 2.5 |
| Length x width x height | mm | 75 / 28 / 82 |
| **Note** | | |

## Ordering data

| **Input** | **24 V DC 3CO LED** | **24 V AC 3CO LED** | **115 V AC 3CO LED** | **230 V AC 3CO LED** |
|---|---|---|---|---|
| Rated control voltage | 24 V DC | 24 V AC | 115 V AC | 230 V AC |
| Rated current AC | | 41.6 mA | 8.8 mA | 4.3 mA |
| Rated current DC | 31.3 mA | | | |
| Power rating | 740 mW | 1.0 VA | 1.0 VA | 1.0 VA |
| AC Response/dropout Volt | | 19.2 V / 7.2 V | 92 V / 34.5 V | 184.0 V / 69.0 V |
| DC Response/dropout Volt | 18.0 V / 2.4 V | | | |

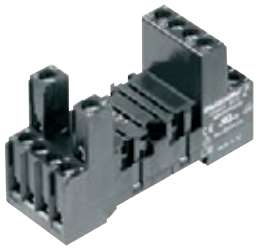
| **Ordering data**<br>**Relay with socket** | | | | | |
|---|---|---|---|---|---|
| Screw connection | Type | RCMKIT-I 24VDC 3CO LD | RCMKIT-I 24VAC 3CO LD | RCMKIT-I 115VAC 3CO LD | RCMKIT-I 230VAC 3CO LD |
| | Order No. | **8920980000** | **8920990000** | **8921010000** | **8921020000** |
| | Type | | | | |
| | Order No. | | | | |

| **Ordering data**<br>**Spare relay (pluggable)** | | | | | |
|---|---|---|---|---|---|
| | Type | RCM370024 | RCM370524 | RCM370615 | RCM370730 |
| | Order No. | **8690040000** | **8690030000** | **8689980000** | **8690000000** |

| **Note** | | | | |
|---|---|---|---|---|

## Accessories for RCM KIT relay modules, 3 CO

### Plug-in module with screw connection



### Technical data

| | |
|---|---|
| Rated current | 10 A |
| Rated voltage | 240 V AC |
| Dielectric strength of coil contacts | > 2500 $V_{eff}$ |
| Ambient temperature (operational) | -45...+70 °C |
| Insulation group (VDE 0110b) | C / 250 V AC |
| Protection class (IEC 61810) | IP20 |
| Approvals | VDE, cURus, CSA |
| Connection cross-section | |
| - Solid-core wire | 2 x 2.5 $mm^2$ |
| - Stranded wire | 2 x 2.5 $mm^2$ |
| - with ferrule | 2 x 1.5 $mm^2$ |
| Rated torque acc. to IEC 61984 for screw connection | 0.5 Nm / max. 0.7 Nm |
| Plug-in cycles | A (10) |

### Ordering data

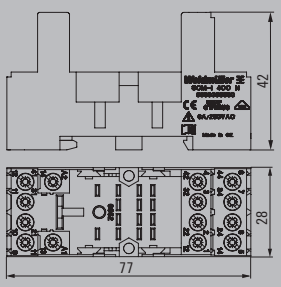
| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plug-in module, snaps onto TS35 DIN mounting rail, 3-pole | SCM-I 3CO N | | **8869410000** |

### Accessories

| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plastic retaining clip | SCM-I CLIP N | 10 | **8875620000** |
| Metal retaining clip | SCM-I CLIP M | 10 | **8869450000** |
| Marker | SCM-I MARK | 10 | **8869460000** |
| Marker, Multicard | ESG 9/11 K MC neutral | 200 | **1857440000** |
|  Cross-connector for screw base, 6-pole | SCM-I QV S | 10 | **1132080000** |

### Dimensions

SCM-I 3 CO N




Dimensions in mm

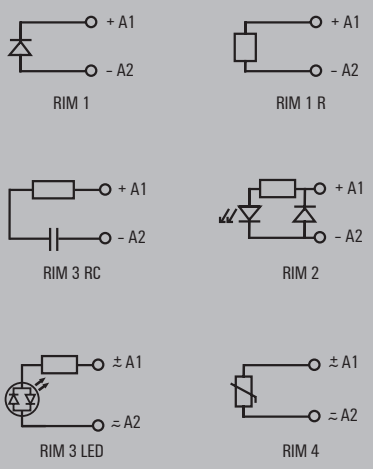
**LED and protective modules for the SCM-I plug-in frame**

Simply plug into the base module; reverse-connect protection. Connect parallel to coil.

## Ordering data

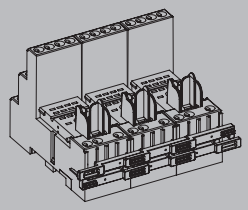
| Description |
|---|
| Free Wheel diode 1N4007 |
| Resistor 100 kΩ 1 Watt |
| RC element 6 ... 60 V AC; 470 Ω / 220 nF |
| RC element 110 ... 230 V AC; 4.7 Ω / 10 nF |
| Varistor protection 24 V; S07K30 |
| Varistor protection 110 V; S07K130 |
| Varistor protection 230 V; S07K275 |
| **LED** |
| LED 6 ... 24 V DC with free wheel diode |
| LED 24 ... 60 V DC with free wheel diode |
| LED 110 ... 230 V DC with free wheel diode |
| LED 6 ... 24 V DC / V AC |
| LED 24 ... 60 V DC / V AC |
| LED 110 ... 230 V DC / V AC |

| Type | Qty. | Order No. | Order No. |
|---|---|---|---|
| RIM-I 1 6/230V | 10 | **8869580000** | |
| RIM-I 1 R 110/230V | 10 | **8870830000** | |
| RIM-I 3 6/60VAC | 10 | **8869770000** | |
| RIM-I 3 110/230VAC | 10 | **8869790000** | |
| RIM-I 4 24VUC | 10 | **8869710000** | |
| RIM-I 4 110VUC | 10 | **8869730000** | |
| RIM-I 4 230VUC | 10 | **8869750000** | |
| | | **red** | **green** |
| RIM-I 2 6/24VDC | 10 | **8869590000** | **8869600000** |
| RIM-I 2 24/60VDC | 10 | **8869670000** | **8869680000** |
| RIM-I 2 110/230VDC | 10 | **8869690000** | **8869700000** |
| RIM-I 3 6/24VUC | 10 | **8869630000** | **8869640000** |
| RIM-I 3 24/60VUC | 10 | **8869610000** | **8869620000** |
| RIM-I 3 110/230VUC | 10 | **8869650000** | **8869660000** |




## Warnings and notes on usage

Cross-connector mounting for screw base



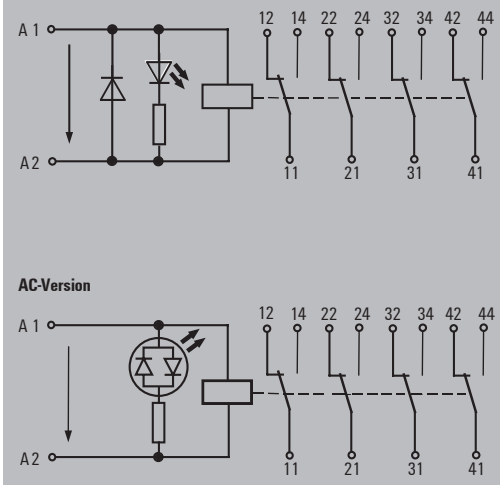
## RCM KIT
### 4 CO AC/DC coil

Modular system comprising:
- Relay socket for rail mounting
- LED display unit (AC red / DC green)
- Retaining clip
- Pluggable relay modules
- Identification of coils (AC red / DC blue)
- Markers

Choice of connection system:
- Screw or PUSH IN connection system






## Technical data

| | |
|---|---|
| **Output** | |
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 240 V |
| Continuous current | 6 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 20 x $10^6$ switch. ops, DC coil 30 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 15 ms / 10 ms |
| **Rated data** | |
| Status indicator / Free-wheel diode | Green LED = DC coil; red LED = AC coil / Yes |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE; GL |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 240 V |
| Clearance and creepage distances for control side - load side | ≥ 4 mm |
| Surge voltage category | III |
| Pollution severity | 2 |

| **Dimensions** | | **Screw connection** | **PUSH IN spring connection** |
|---|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 2.5 | 1.5 / 0.5 / 1.5 |
| Length x width x height | mm | 75 / 28 / 82 | 96 / 28 / 98 |
| **Note** | | | |

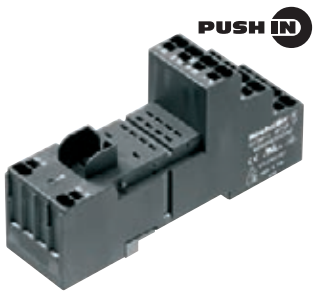
## Ordering data

| | 24 V DC 4CO LED | 24 V AC 4CO LED | 115 V AC 4CO LED | 230 V AC 4CO LED |
|---|---|---|---|---|
| **Input** | | | | |
| Rated control voltage | 24 V DC | 24 V AC | 115 V AC | 230 V AC |
| Rated current AC | | 41.6 mA | 8.8 mA | 4.3 mA |
| Rated current DC | 31.3 mA | | | |
| Power rating | 740 mW | 1.0 VA | 1.0 VA | 1.0 VA |
| AC Response/dropout Volt | | 19.2 V / 7.2 V | 92 V / 34.5 V | 184.0 V / 69.0 V |
| DC Response/dropout Volt | 18.0 V / 2.4 V | | | |

| **Ordering data Relay with socket** | | | | | |
|---|---|---|---|---|---|
| Screw connection | Type | RCMKIT-I 24VDC 4CO LD | RCMKIT-I 24VAC 4CO LD | RCMKIT-I 115VAC 4CO LD | RCMKIT-I 230VAC 4CO LD |
| | Order No. | **8921030000** | **8921040000** | **8921050000** | **8921060000** |
| PUSH IN connection | Type | RCMKITP-I 24VDC 4CO LD | RCMKITP-I 24VAC 4CO LD | RCMKITP-I 115VAC 4CO LD | RCMKITP-I 230VAC 4CO LD |
| | Order No. | **8921120000** | **8921130000** | **8921140000** | **8921150000** |
| **Ordering data Spare relay (pluggable)** | | | | | |
| | Type | RCM570024 | RCM570524 | RCM570615 | RCM570730 |
| | Order No. | **8690200000** | **8690110000** | **1180800000** | **1181100000** |
| **Note** | | | | | |

## Accessories for RCM KIT relay modules, 4 CO

### Plug-in module with PUSH IN connection



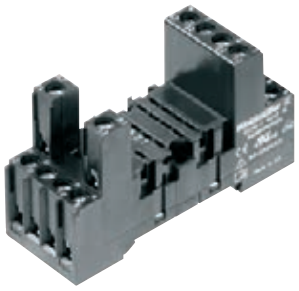

### Plug-in module with screw connection

**Standard height**



### Plug-in module with screw connection

**Low height**



## Technical data

| | | | |
|---|---|---|---|
| Rated current | 6 A | 6 A | 6 A |
| Rated voltage | 240 V AC | 240 V AC | 240 V AC |
| Dielectric strength of coil contacts | > 2500 $V_{eff}$ | > 2500 $V_{eff}$ | > 2500 $V_{eff}$ |
| Ambient temperature (operational) | -45...+70°C | -45...+70 °C | -45...+70 °C |
| Insulation group (VDE 0110b) | C / 250 V AC | C / 250 V AC | C / 250 V AC |
| Protection class (IEC 61810) | IP20 | IP20 | IP20 |
| Stripping length | 12 mm | 8 mm | 8 mm |
| Approvals | VDE, cURus, CSA | VDE, cURus, CSA | VDE, cURus, CSA |
| Connection cross-section | | | |
| - Solid-core wire | 1 x 0.75/1/1.5 $mm^2$ / 2 x 0.75/1 $mm^2$ | 2 x 2.5 $mm^2$ | 2 x 2.5 $mm^2$ |
| - Stranded wire | 1 x 0.75/1/1.5 $mm^2$ / 2 x 0.75/1 $mm^2$ | 2 x 2.5 $mm^2$ | 2 x 2.5 $mm^2$ |
| - with ferrule | 1 x 0.75/1 $mm^2$ / 2 x 0.75 $mm^2$ | 2 x 1.5 $mm^2$ | 2 x 1.5 $mm^2$ |
| Rated torque acc. to IEC 61984 for screw connection | | 0.5 Nm / max. 0.7 Nm | 0.5 Nm / max. 0.7 Nm |
| Plug-in cycles | A (10) | A (10) | A (10) |

## Ordering data

| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plug-in module, snaps onto TS35 DIN mounting rail, 4-pole | SCM-I 4CO P | | **8869430000** |
| | SCM-I 4CO | | **8869420000** |
| | SCM-I 4CO N | | **8869390000** |

## Accessories

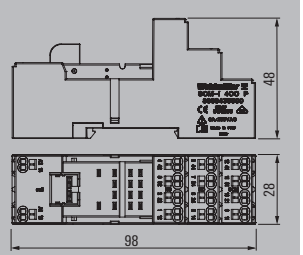
| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plastic retaining clip | SCM-I CLIP P | 10 | **8869440000** |
| Plastic retaining clip | | | |
| Metal retaining clip | SCM-I CLIP M | 10 | **8869450000** |
| Marker | SCM-I MARK | 10 | **8869460000** |
| Marker, Multicard | ESG 9/11 K MC neutral | 200 | **1857440000** |
|  Cross-connector for PUSH IN base, 2-pole, 12 A | SCM-I QV P | | **8870850000** |
|  Cross-connector for screw base, 6-pole | | | |

| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plastic retaining clip | SCM-I CLIP P | 10 | **8869440000** |
| Plastic retaining clip | | | |
| Metal retaining clip | SCM-I CLIP M | 10 | **8869450000** |
| Marker | SCM-I MARK | 10 | **8869460000** |
| Marker, Multicard | ESG 9/11 K MC neutral | 200 | **1857440000** |
| | SCM-I QV S | | **1132080000** |

| Description | Type | Qty. | Order No. |
|---|---|---|---|
| | | | |
| Plastic retaining clip | SCM-I CLIP N | 10 | **8875620000** |
| Metal retaining clip | SCM-I CLIP M | 10 | **8869450000** |
| Marker | SCM-I MARK | 10 | **8869460000** |
| Marker, Multicard | ESG 9/11 K MC neutral | 200 | **1857440000** |
| | SCM-I QV S | | **1132080000** |

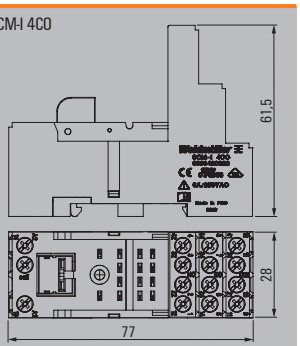
### Dimensions

SCM-I 4CO P



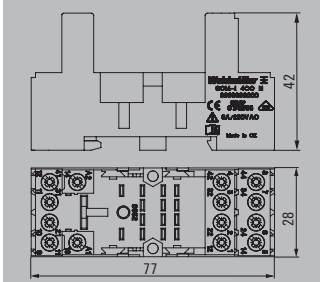

### Dimensions

SCM-I 4CO




### Dimensions

SCM-I 4CO N




Dimensions in mm

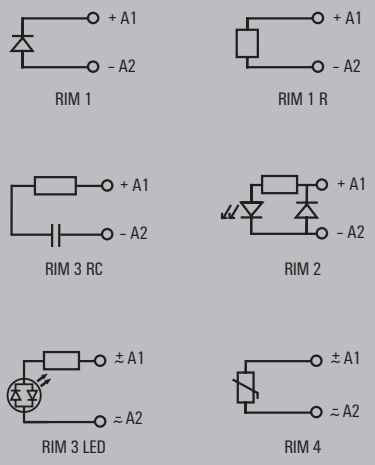
## LED and protective modules for the SCM-I plug-in frame

Simply plug into the base module; reverse-connect protection. Connect parallel to coil.

### Ordering data

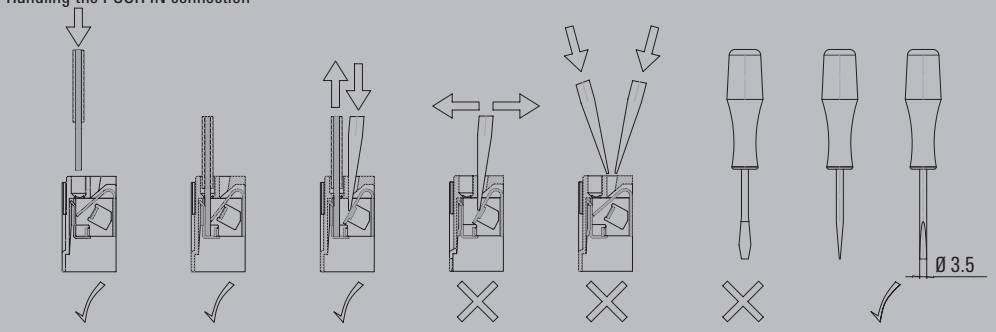
| Description |
|---|
| Free Wheel diode 1N4007 |
| Resistor 100 kΩ 1 Watt |
| RC element 6 ... 60 V AC; 470 Ω / 220 nF |
| RC element 110 ... 230 V AC; 4.7 Ω / 10 nF |
| Varistor protection 24 V; S07K30 |
| Varistor protection 110 V; S07K130 |
| Varistor protection 230 V; S07K275 |
| **LED** |
| LED 6 ... 24 V DC with free wheel diode |
| LED 24 ... 60 V DC with free wheel diode |
| LED 110 ... 230 V DC with free wheel diode |
| LED 6 ... 24 V DC / V AC |
| LED 24 ... 60 V DC / V AC |
| LED 110 ... 230 V DC / V AC |

| Type | Qty. | Order No. | Order No. |
|---|---|---|---|
| RIM-I 1 6/230V | 10 | **8869580000** | |
| RIM-I 1 R 110/230V | 10 | **8870830000** | |
| RIM-I 3 6/60VAC | 10 | **8869770000** | |
| RIM-I 3 110/230VAC | 10 | **8869790000** | |
| RIM-I 4 24VUC | 10 | **8869710000** | |
| RIM-I 4 110VUC | 10 | **8869730000** | |
| RIM-I 4 230VUC | 10 | **8869750000** | |
| | | **red** | **green** |
| RIM-I 2 6/24VDC | 10 | **8869590000** | **8869600000** |
| RIM-I 2 24/60VDC | 10 | **8869670000** | **8869680000** |
| RIM-I 2 110/230VDC | 10 | **8869690000** | **8869700000** |
| RIM-I 3 6/24VUC | 10 | **8869630000** | **8869640000** |
| RIM-I 3 24/60VUC | 10 | **8869610000** | **8869620000** |
| RIM-I 3 110/230VUC | 10 | **8869650000** | **8869660000** |



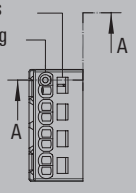

## Warnings and notes on usage

Handling the PUSH IN connection

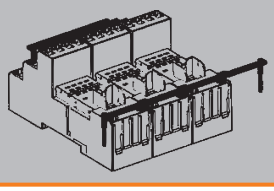



Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening

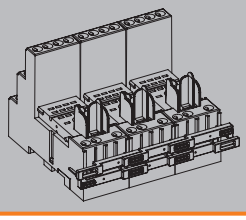



Cross-connector mounting for PUSH IN base



If more than two poles need to be connected with stacked cross-connector ridges, then the lower ridge must be stripped and shortened to the proper length so it will fit.

Cross-connector mounting for screw base

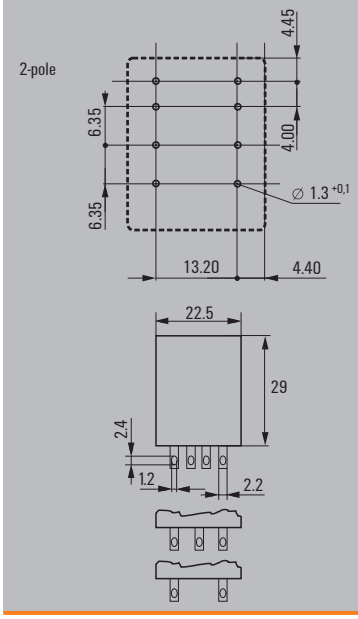


## RCM relay
## 2 CO
## AC/DC coil

- 3000 VA switching capacity
- Solder and plug connection
- Safe-to-touch test button, selectable locking
- White labelling panel
- Identification of coils (AC red / DC blue)



**Circuit diagram**
Dimensions in mm



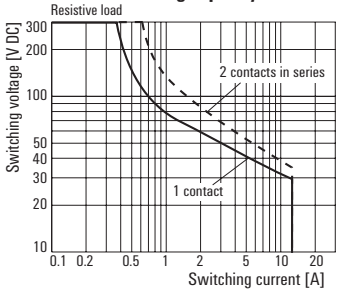

## Technical data

| | |
|---|---|
| **Output** | |
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 400 V |
| Continuous current | 12 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 20 x $10^6$ switch. ops, DC coil 30 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 15 ms / 10 ms |
| **Rated data** | |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CSA; cURus; VDE |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | ≥ 4 mm |
| Surge voltage category | |
| Pollution severity | |

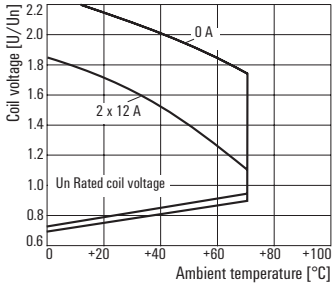
| **Dimensions** | | **Plug-in connection** |
|---|---|---|
| Length x width x height | mm | 28 / 22.5 / 29 |
| **Note** | | |

## Applications

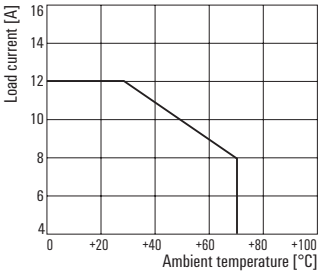
**DC load breaking capacity**
Resistive load



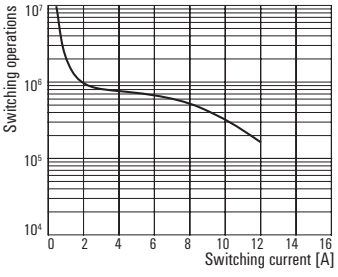

**Operating voltage range DC**



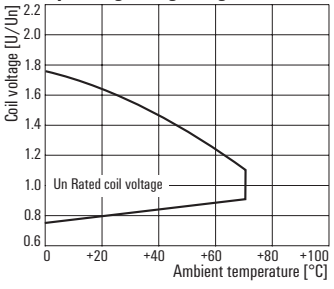

**Derating curve**
in combination with plug-in module




**Electrical endurance**
250 V AC Resistive load




**Operating voltage range AC**



## RCM relay
## 2 CO
## AC/DC coil

**Type code** RCM [ ] [ ] [ ] [ ]

**Type** RIDER Control Multiple

**Contacts**
- 2 2 CO contacts
- 3 3 CO contacts
- 5 4 CO contacts

**Contact material**
- 7 AgNi 90/10, with test button
- 8 AgNi 90/10 hgp, with test button

**Type of construction**
- 0 Standard, 2.8 mm Faston

[ ]

| | | with LED | with LED +diode |
|---|---|---|---|
| **DC coil** | | | |
| 006 | 6 V DC | L06 | |
| 012 | 12 V DC | L12 | AB2 |
| 024 | 24 V DC | L24 | AC4 |
| 048 | 48 V DC | L48 | AE8 |
| 060 | 60 V DC | L60 | |
| 110 | 110 V DC | M10 | BB0 |
| 220 | 220 V DC | N20 | |
| **AC coil** | | | |
| 506 | 6 V AC | R06 | |
| 512 | 12 V AC | R12 | |
| 524 | 24 V AC | R24 | |
| 548 | 48 V AC | R48 | |
| 615 | 115 V AC | S15 | |
| 730 | 230 V AC | T30 | |

## Ordering data

| Input | 12 V DC 2CO | 24 V DC 2CO | 48 V DC 2CO | 110 V DC 2CO |
|---|---|---|---|---|
| Rated control voltage | 12 V DC | 24 V DC | 48 V DC | 110 V DC |
| DC Response/dropout Volt | 9.0 V / 1.2 V | 18.0 V / 2.4 V | 36.0 V / 4.8 V | 82.5 V / 11.0 V |
| Power rating | 750 mW | 750 mW | 750 mW | 750 mW |
| Rated current DC | 62.5 mA | 31.3 mA | 15.6 mA | 6.8 mA |
| Coil resistance | 192 Ω ±10 % | 777 Ω ±10 % | 3072 Ω ±10 % | 16133 Ω ±15 % |

| Ordering data Relay | | | | | |
|---|---|---|---|---|---|
| Without LED | Type | RCM270012 | RCM270024 | RCM270048 | RCM270110 |
| AgNi 90/10 | Order No. | **8689840000** | **8689860000** | **8689880000** | **8689900000** |
| with LED | Type | RCM270L12 | RCM270L24 | RCM270L48 | |
| AgNi 90/10 | Order No. | **8689850000** | **8689870000** | **8689890000** | |
| With LED + freewheel diode | Type | RCM270AB2 | RCM270AC4 | RCM270AE8 | RCM270BB0 |
| AgNi 90/10 | Order No. | **8957020000** | **8957030000** | **8957040000** | **8957050000** |
| | Type | | | | |
| | Order No. | | | | |

**Note**

## Ordering data

| Input | 24 V AC 2CO | 48 V AC 2CO | 115 V AC 2CO | 230 V AC 2CO |
|---|---|---|---|---|
| Rated control voltage | 24 V AC | 48 V AC | 115 V AC | 230 V AC |
| AC Response/dropout Volt | 38.4 V / 14.4 V | 48.0 V / 18.0 V | 92.0 V / 34.5 V | 184.0 V / 69.0 V |
| Power rating | 1.0 VA | 1.0 VA | 1.0 VA | 1.0 VA |
| Rated current AC | 41.6 mA | 21.3 mA | 8.8 mA | 4.3 mA |
| Coil resistance | 192 Ω ±10 % | 777 Ω ±10 % | 4845 Ω ±12 % | 19465 Ω ±15 % |

| Ordering data Relay | | | | | |
|---|---|---|---|---|---|
| Without LED | Type | RCM270524 | RCM270548 | RCM270615 | RCM270730 |
| AgNi 90/10 | Order No. | **8689760000** | **8689780000** | **8689800000** | **8689820000** |
| with LED | Type | RCM270R24 | RCM270R48 | RCM270S15 | RCM270T30 |
| AgNi 90/10 | Order No. | **8689770000** | **8689790000** | **8689810000** | **8689830000** |
| | Type | | | | |
| | Order No. | | | | |
| | Type | | | | |
| | Order No. | | | | |

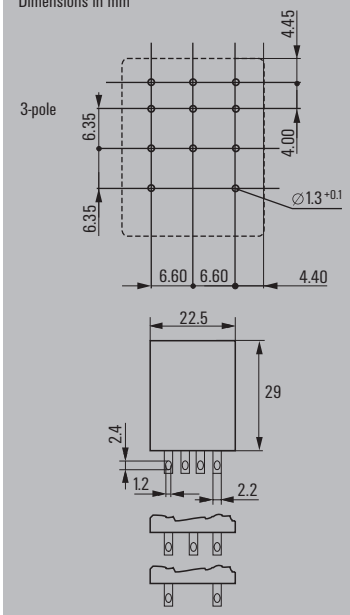
**Note**

## RCM relay
## 3 CO
## AC/DC coil

- 2500 VA switching capacity
- Solder and plug connection
- Safe-to-touch test button, selectable locking
- White labelling panel
- Identification of coils (AC red / DC blue)



**Circuit diagram**
Dimensions in mm



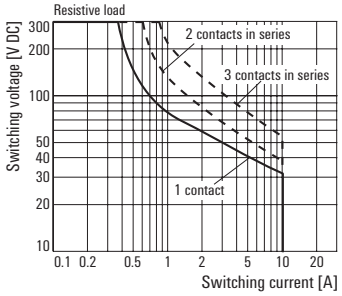

## Technical data

| | |
|---|---|
| **Output** | |
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 400 V |
| Continuous current | 10 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | AC coil 20 x $10^6$ switch. ops, DC coil 30 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 15 ms / 10 ms |
| **Rated data** | |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CSA; cURus; VDE |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | ≥ 4 mm |
| Surge voltage category | |
| Pollution severity | |

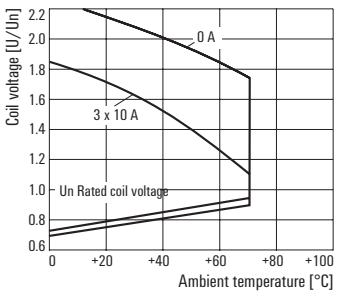
| **Dimensions** | | **Plug-in connection** |
|---|---|---|
| Length x width x height | mm | 28 / 22.5 / 29 |
| **Note** | | |

## Applications

### DC load breaking capacity

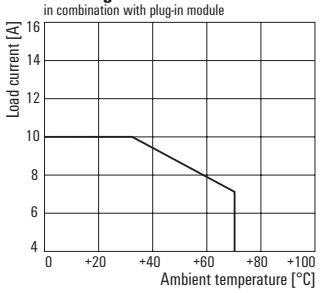



### Operating voltage range DC



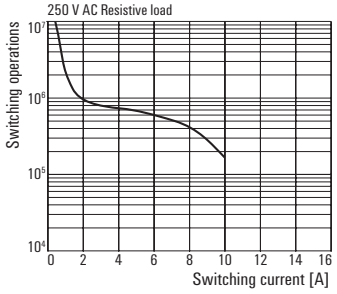

### Derating curve

in combination with plug-in module

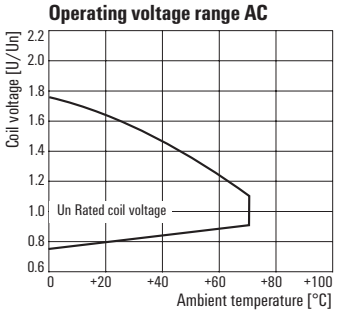



### Electrical endurance

250 V AC Resistive load




### Operating voltage range AC



## RCM relay
## 3 CO
## AC/DC coil

**Type code** RCM [ ] [ ] [ ] [ ]

**Type** RIDER Control Multiple

**Contacts**
- 2 2 CO contacts
- 3 3 CO contacts
- 5 4 CO contacts

**Contact material**
- 7 AgNi 90/10, with test button
- 8 AgNi 90/10 hgp, with test button

**Type of construction**
- 0 Standard, 2.8 mm Faston

| | | with LED | with LED +diode |
|---|---|---|---|
| **DC coil** | | | |
| 006 | 6 V DC | L06 | |
| 012 | 12 V DC | L12 | AB2 |
| 024 | 24 V DC | L24 | AC4 |
| 048 | 48 V DC | L48 | AE8 |
| 060 | 60 V DC | L60 | |
| 110 | 110 V DC | M10 | BB0 |
| 220 | 220 V DC | N20 | |
| **AC coil** | | | |
| 506 | 6 V AC | R06 | |
| 512 | 12 V AC | R12 | |
| 524 | 24 V AC | R24 | |
| 548 | 48 V AC | R48 | |
| 615 | 115 V AC | S15 | |
| 730 | 230 V AC | T30 | |

## Ordering data

| Input | 12 V DC 3CO | 24 V DC 3CO | 48 V DC 3CO | 110 V DC 3CO |
|---|---|---|---|---|
| Rated control voltage | 12 V DC | 24 V DC | 48 V DC | 110 V DC |
| DC Response/dropout Volt | 9.0 V / 1.2 V | 18.0 V / 2.4 V | 36.0 V / 4.8 V | 82.5 V / 11.0 V |
| Power rating | 750 mW | 750 mW | 750 mW | 750 mW |
| Rated current DC | 62.5 mA | 31.3 mA | 15.6 mA | 6.8 mA |
| Coil resistance | 192 Ω ±10 % | 777 Ω ±10 % | 3072 Ω ±10 % | 16133 Ω ±15 % |

| Ordering data Relay | | | | | |
|---|---|---|---|---|---|
| Without LED | Type | RCM370012 | RCM370024 | RCM370048 | RCM370110 |
| AgNi 90/10 | Order No. | **8690020000** | **8690040000** | **8690060000** | **8690080000** |
| With LED + freewheel diode | Type | RCM370AB2 | RCM370AC4 | RCM370AE8 | RCM370BB0 |
| AgNi 90/10 | Order No. | **8957090000** | **8957100000** | **8957110000** | **8957120000** |
| | Type | | | | |
| | Order No. | | | | |
| | Type | | | | |
| | Order No. | | | | |

**Note**

## Ordering data

| Input | 24 V AC 3CO | 48 V AC 3CO | 115 V AC 3CO | 230 V AC 3CO |
|---|---|---|---|---|
| Rated control voltage | 24 V AC | 48 V AC | 115 V AC | 230 V AC |
| AC Response/dropout Volt | 19.2 V / 7.2 V | 38.4 V / 14.4 V | 92.0 V / 34.5 V | 184.0 V / 69.0 V |
| Power rating | 1.0 VA | 1.0 VA | 1.0 VA | 1.0 VA |
| Rated current AC | 41.6 mA | 21.3 mA | 8.8 mA | 4.3 mA |
| Coil resistance | 192 Ω ±10 % | 777 Ω ±10 % | 4845 Ω ±12 % | 19465 Ω ±15 % |

| Ordering data Relay | | | | | |
|---|---|---|---|---|---|
| Without LED | Type | RCM370524 | | RCM370615 | RCM370730 |
| AgNi 90/10 | Order No. | **8690030000** | | **8689980000** | **8690000000** |
| with LED | Type | RCM370R24 | RCM370R48 | RCM370S15 | RCM370T30 |
| AgNi 90/10 | Order No. | **8689950000** | **8689970000** | **8689990000** | **8690010000** |
| | Type | | | | |
| | Order No. | | | | |
| | Type | | | | |
| | Order No. | | | | |

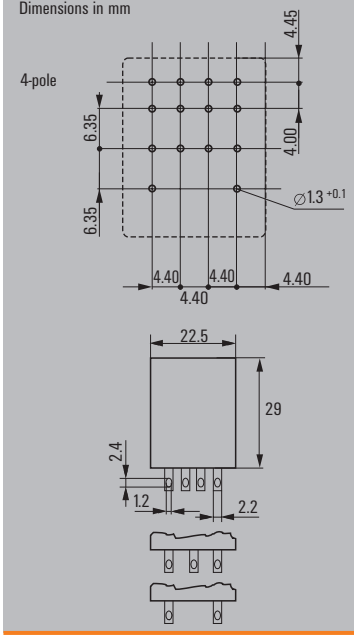
**Note**

## RCM relay
## 4 CO
## AC/DC coil

- 1500 VA switching capacity
- Solder and plug connection
- AC/DC versions also with gold-plated contacts
- Safe-to-touch test button, selectable locking
- White labelling panel
- Identification of coils (AC red / DC blue)



**Circuit diagram**
Dimensions in mm



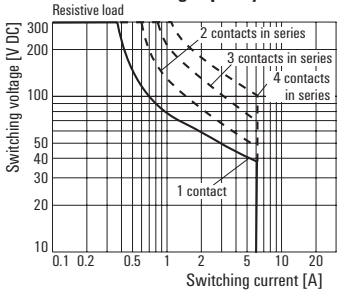

## Technical data

| Output | |
|---|---|
| Rated switching voltage | 240 V AC |
| Max. switching voltage, AC | 240 V |
| Continuous current | 6 A |
| Contact material [print] | AgNi 90/10 or AgNi 5µm Au |
| Mechanical service life | AC coil 20 x $10^6$ switch. ops, DC coil 30 x $10^6$ switch. cycles |
| Sparkover time / Drop-out time | 15 ms / 10 ms |
| **Rated data** | |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Approvals | CSA; cURus; VDE |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | ≥ 4 mm |
| Surge voltage category | |
| Pollution severity | |

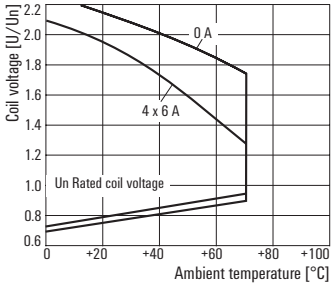
| Dimensions | | Plug-in connection |
|---|---|---|
| Length x width x height | mm | 28 / 22.5 / 29 |
| **Note** | | |

## Applications

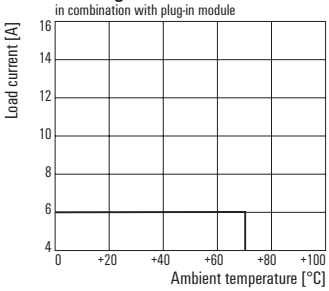
### DC load breaking capacity
Resistive load



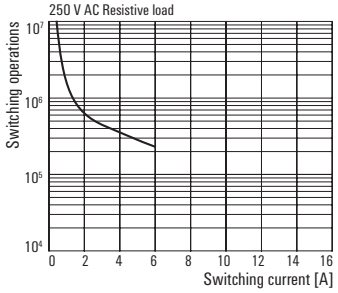

### Operating voltage range DC



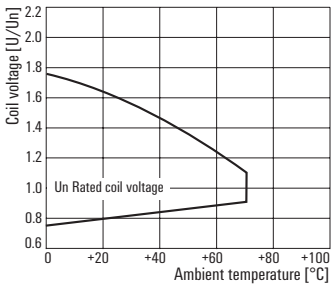

### Derating curve
in combination with plug-in module




### Electrical endurance
250 V AC Resistive load




### Operating voltage range AC



## RCM relay
## 4 CO
## AC/DC coil

**Type code**

RCM | | | | | |

**Type** RIDER Control Multiple

**Contacts**
- 2 2 CO contacts
- 3 3 CO contacts
- 5 4 CO contacts

**Contact material**
- 7 AgNi 90/10, with test button
- 8 AgNi 90/10 hgp, with test button

**Type of construction**
- 0 Standard, 2.8 mm Faston

| | | with LED | with LED +diode |
|---|---|---|---|
| **DC coil** | | | |
| 006 | 6 V DC | L06 | |
| 012 | 12 V DC | L12 | AB2 |
| 024 | 24 V DC | L24 | AC4 |
| 048 | 48 V DC | L48 | AE8 |
| 060 | 60 V DC | L60 | |
| 110 | 110 V DC | M10 | BB0 |
| 220 | 220 V DC | N20 | |
| **AC coil** | | | |
| 506 | 6 V AC | R06 | |
| 512 | 12 V AC | R12 | |
| 524 | 24 V AC | R24 | |
| 548 | 48 V AC | R48 | |
| 615 | 115 V AC | S15 | |
| 730 | 230 V AC | T30 | |

## Ordering data

| Input | 12 V DC 4CO | 24 V DC 4CO | 48 V DC 4CO | 110 V DC 4CO |
|---|---|---|---|---|
| Rated control voltage | 12 V DC | 24 V DC | 48 V DC | 110 V DC |
| DC Response/dropout Volt | 9 V / 1.2 V | 18 V / 2.4 V | 36 V / 4.8 V | 82.5 V / 11 V |
| Power rating | 750 mW | 750 mW | 750 mW | 750 mW |
| Rated current DC | 62.5 mA | 31.3 mA | 15.6 mA | 6.8 mA |
| Coil resistance | 192 Ω ±10 % | 777 Ω ±10 % | 3072 Ω ±10 % | 16133 Ω ±15 % |

| Ordering data Relay | | | | | |
|---|---|---|---|---|---|
| Without LED | Type | RCM570012 | RCM570024 | RCM570048 | RCM570110 |
| AgNi 90/10 | Order No. | **8054360000** | **8690200000** | **8074670000** | **8074700000** |
| with LED | Type | RCM570L12 | RCM570L24 | RCM570L48 | RCM570M10 |
| AgNi 90/10 | Order No. | **8690180000** | **8690220000** | **8690230000** | **8690240000** |
| Without LED | Type | RCM580012 | RCM580024 | RCM580048 | |
| AgNi 5µm Au | Order No. | **on request** | **8694460000** | **on request** | |
| With LED + freewheel diode | Type | RCM570AB2 | RCM570AC4 | RCM570AE8 | RCM570BB0 |
| AgNi 90/10 | Order No. | **8957160000** | **8957170000** | **8957180000** | **8957190000** |

**Note**

## Ordering data

| Input | 24 V AC 4CO | 48 V AC 4CO | 115 V AC 4CO | 230 V AC 4CO |
|---|---|---|---|---|
| Rated control voltage | 24 V AC | 48 V AC | 115 V AC | 230 V AC |
| AC Response/dropout Volt | 19.2 V / 7.2 V | 38.4 V / 14.4 V | 92 V / 34.5 V | 184 V / 69 V |
| Power rating | 1.0 VA | 1.0 VA | 1.0 VA | 1.0 VA |
| Rated current AC | 41.6 mA | 21.3 mA | 8.8 mA | 4.3 mA |
| Coil resistance | 192 Ω ±10 % | 777 Ω ±10 % | 4845 Ω ±12 % | 19465 Ω ±15 % |

| Ordering data Relay | | | | | |
|---|---|---|---|---|---|
| Without LED | Type | RCM570524 | RCM570548 | RCM570615 | RCM570730 |
| AgNi 90/10 | Order No. | **8690110000** | **1180900000** | **1180800000** | **1181100000** |
| with LED | Type | RCM570R24 | RCM570R48 | RCM570S15 | RCM570T30 |
| AgNi 90/10 | Order No. | **8690120000** | **8690130000** | **8690150000** | **8690160000** |
| Without LED | Type | RCM580524 | | RCM580615 | RCM580730 |
| AgNi 5µm Au | Order No. | **7940008171** | | **8824860000** | **7940007637** |
| | Type | | | | |
| | Order No. | | | | |

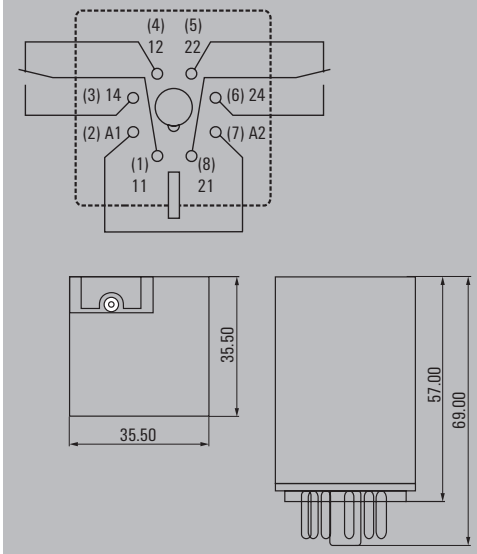
**Note**

## RRD relay
## 2 CO
## AC/DC coil

- 2 CO contacts
- 2500 VA switching capacity
- Mechanical operating display
- Safe-to-touch test button, selectable locking



**Circuit diagram**
View of connections



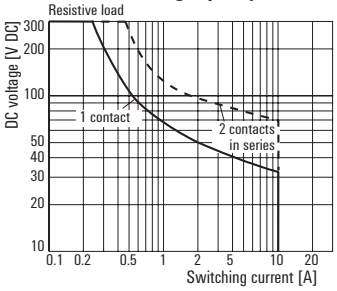

## Technical data

| | |
|---|---|
| **Output** | |
| Max. switching voltage, AC | 400 V |
| Continuous current | 10 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | 20 x $10^6$ switching cycles |
| Sparkover time / Drop-out time | 15 ms / 10 ms |
| **Rated data** | |
| Status indicator / Free-wheel diode | Mechanical / No |
| Ambient temperature (operational) | -40 °C...+60 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CSA; cURus; VDE |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | ≤ 3 mm |
| Surge voltage category | |
| Pollution severity | |

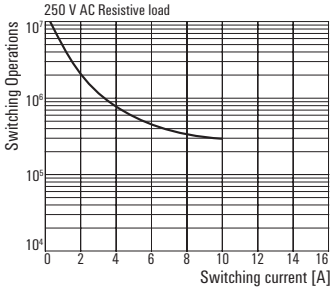
| **Dimensions** | | **Plug-in connection** |
|---|---|---|
| Length x width x height | mm | 35.5 / 35.5 / 57 |
| **Note** | | |

## Applications

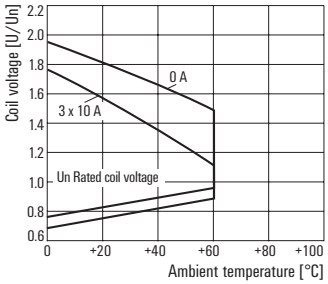
### DC load breaking capacity



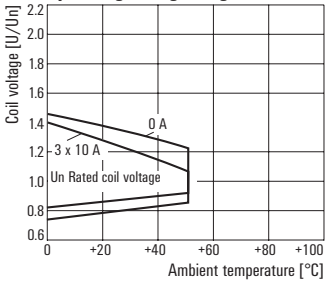

### Electrical endurance




### Operating voltage range DC




### Operating voltage range AC



## RRD relay
## 2 CO
## AC/DC coil

**Type code** RRD

**Type** RIDER RounD

**Contacts**
- 2 2 change-over contacts, 8-pole
- 3 3 change-over contacts, 11-pole

**Contact material**
- 2 AgNi 90/10

**Type of construction**
- 1 DC coil with test button
- 3 DC coil with test button and bi-polar LED
- 6 AC coil with test button
- 8 AC coil with test button and bi-polar LED

| | | Free wheel diode |
|---|---|---|
| **DC coil** | | |
| 006 | 6 V DC | |
| 012 | 12 V DC | |
| 024 | 24 V DC | 0C4 |
| 048 | 48 V DC | 0E8 |
| 060 | 60 V DC | 0G0 |
| 110 | 110 V DC | 1B0 |
| 220 | 220 V DC | 2C0 |
| **AC coil** | | |
| 006 | 6 V AC | |
| 012 | 12 V AC | |
| 024 | 24 V AC | |
| 048 | 48 V AC | |
| 115 | 115 V AC | |
| 230 | 230 V AC | |

## Ordering data

| | 24 V DC 2CO | 48 V DC 2CO | 24 V AC 2CO | 48 V AC 2CO |
|---|---|---|---|---|
| **Input** | | | | |
| Rated control voltage | 24 V DC | 48 V DC | 24 V AC | 48 V AC |
| DC Response/dropout Volt | 18.0 V / 2.4 V | 36.0 V / 4.8 V | 19.2 V / 9.6 V | 38.4 V / 19.2 V |
| Power rating | 1.2 W | 1.2 W | 2.3 VA | 2.3 VA |
| Rated current DC | 50.5 mA | 24.0 mA | 94.2 mA | 47.5 mA |
| Coil resistance | 475 Ω ±10 % | 2000 Ω ±10 % | 86 Ω ±10 % | 345 Ω ±10 % |

| **Ordering data Relay** | | | | | |
|---|---|---|---|---|---|
| w. test button | Type | RRD221024 | | RRD226024 | |
| AgNi 90/10 | Order No. | **8690370000** | | **8690270000** | |
| With test button + LED | Type | RRD223024 | RRD223048 | RRD228024 | RRD228048 |
| AgNi 90/10 | Order No. | **8690380000** | **8690400000** | **8690280000** | **8690300000** |
| | Type | | | | |
| | Order No. | | | | |
| | Type | | | | |
| | Order No. | | | | |

| **Note** | | | | |
|---|---|---|---|---|
| | | | | |

## Ordering data

| | 115 V AC 2CO | 230 V AC 2CO |
|---|---|---|
| **Input** | | |
| Rated control voltage | 115 V AC | 230 V AC |
| AC Response/dropout Volt | 92.0 V / 34.5 V | 184.0 V / 92.0 V |
| Power rating | 2.3 VA | 2.3 VA |
| Rated current AC | 20.6 mA | 10.1 mA |
| Coil resistance | 2000 Ω ±10 % | 8300 Ω ±12 % |

| **Ordering data Relay** | | | |
|---|---|---|---|
| w. test button | Type | RRD226115 | RRD226230 |
| AgNi 90/10 | Order No. | **8690310000** | **8690330000** |
| With test button + LED | Type | RRD228115 | RRD228230 |
| AgNi 90/10 | Order No. | **8690320000** | **8690340000** |
| | Type | | |
| | Order No. | | |
| | Type | | |
| | Order No. | | |

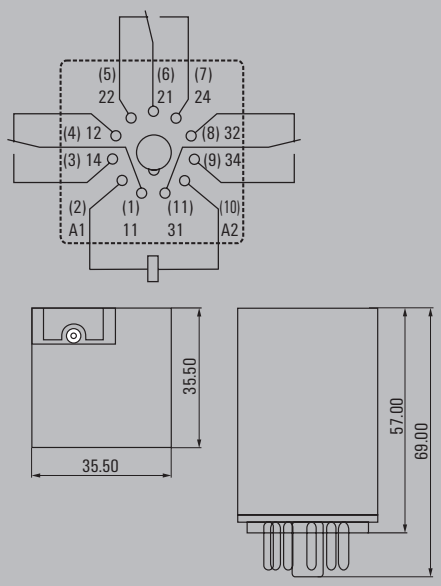
| **Note** | | |
|---|---|---|
| | | |

## RRD relay
## 3 CO
## AC/DC coil

- 3 CO contacts
- 500 VA switching capacity
- Mechanical operating display
- Safe-to-touch test button, selectable locking



**Circuit diagram**
View of connections



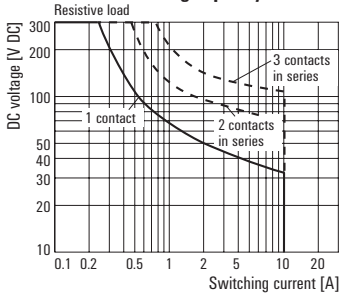

## Technical data

| | |
|---|---|
| **Output** | |
| Max. switching voltage, AC | 400 V |
| Continuous current | 10 A |
| Contact material | AgNi 90/10 |
| Mechanical service life | 20 x $10^6$ switching cycles |
| Sparkover time / Drop-out time | 12 ms / 5 ms |
| **Rated data** | |
| Status indicator / Free-wheel diode | Mechanical / No |
| Ambient temperature (operational) | DC coil: -45 °C...+60 °C / AC coil: -45 °C...+50 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CSA; cURus; VDE |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | 3 mm |
| Surge voltage category | |
| Pollution severity | |

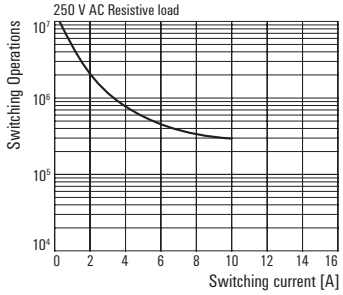
| **Dimensions** | **Plug-in connection** |
|---|---|
| Length x width x height | 35.5 / 35.5 / 57 |
| **Note** | |

## Applications

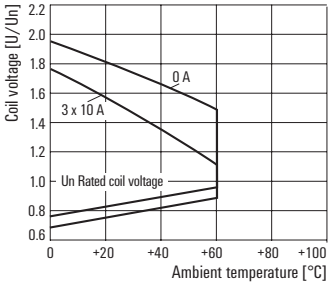
### DC load breaking capacity
Resistive load



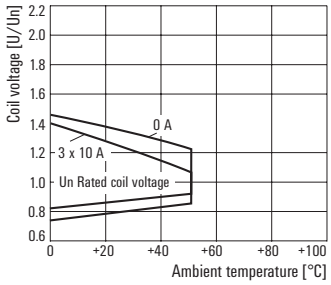

### Electrical endurance
250 V AC Resistive load




### Operating voltage range DC




### Operating voltage range AC



## RRD relay
## 3 CO
## AC/DC coil

**Type code** RRD

**Type** RIDER RounD

**Contacts**
- 2 2 change-over contacts, 8-pole
- 3 3 change-over contacts, 11-pole

**Contact material**
- 2 AgNi 90/10

**Type of construction**
- 1 DC coil with test button
- 3 DC coil with test button and bi-polar LED
- 6 AC coil with test button
- 8 AC coil with test button and bi-polar LED

| | | Free wheel diode |
|---|---|---|
| **DC coil** | | |
| 006 | 6 V DC | |
| 012 | 12 V DC | |
| 024 | 24 V DC | 0C4 |
| 048 | 48 V DC | 0E8 |
| 060 | 60 V DC | 0G0 |
| 110 | 110 V DC | 1B0 |
| 220 | 220 V DC | 2C0 |
| **AC coil** | | |
| 006 | 6 V AC | |
| 012 | 12 V AC | |
| 024 | 24 V AC | |
| 048 | 48 V AC | |
| 115 | 115 V AC | |
| 230 | 230 V AC | |

## Ordering data

| Input | 12 V DC 3CO | 24 V DC 3CO | 110 V DC 3CO | 220 V DC 3CO |
|---|---|---|---|---|
| Rated control voltage | 12 V DC | 24 V DC | 110 V DC | 220 V DC |
| DC Response/dropout Volt | 9 V / 1.2 V | 18 V / 2.4 V | 82.5 V / 11.5 V | 165 V / 22 V |
| Power rating | 1.2 W | 1.2 W | 1.2 W | 1.2 W |
| Rated current DC | 109.1 mA | 50.5 mA | 11 mA | 5.5 mA |
| Coil resistance | 110 Ω ±10 % | 475 Ω ±10 % | 10000 Ω ±12 % | 40000 Ω ±15 % |

| Ordering data Relay | | | | | |
|---|---|---|---|---|---|
| w. test button | Type | RRD321012 | RRD321024 | RRD321110 | RRD321220 |
| | Order No. | **8799030000** | **8690610000** | **8690650000** | **7940007742** |
| With test button + LED | Type | | RRD323024 | RRD323110 | RRD323220 |
| | Order No. | | **8690620000** | **8690660000** | **8798610000** |
| w. test button | Type | | RRD3210C4 | RRD3211B0 | RRD3212C0 |
| + Free-wheel diode | Order No. | | **8797650000** | **8797640000** | **8797610000** |
| With test button + LED | Type | | RRD3230C4 | | RRD3232C0 |
| + Free-wheel diode | Order No. | | **7940007732** | | **8829400000** |

**Note**

## Ordering data

| Input | 24 V AC 3CO | 48 V AC 3CO | 115 V AC 3CO | 230 V AC 3CO |
|---|---|---|---|---|
| Rated control voltage | 24 V AC | 48 V AC | 115 V AC | 230 V AC |
| AC Response/dropout Volt | 19.2 V / 7.2 V | 38.4 V / 14.4 V | 92 V / 34.5 V | 184 V / 92 V |
| Power rating | 2.3 VA | 2.3 VA | 2.3 VA | 2.3 VA |
| Rated current AC | 94.2 mA | 47.5 mA | 20.6 mA | 10.1 mA |
| Coil resistance | 86 Ω ±10 % | 345 Ω ±10 % | 2000 Ω ±10 % | 8300 Ω ±12 % |

| Ordering data Relay | | | | | |
|---|---|---|---|---|---|
| w. test button | Type | RRD326024 | RRD326048 | RRD326115 | RRD326230 |
| | Order No. | **8690450000** | **8690470000** | **8690550000** | **8690570000** |
| With test button + LED | Type | RRD328024 | RRD328048 | RRD328115 | RRD328230 |
| | Order No. | **8690460000** | **8690480000** | **8690560000** | **8690580000** |
| | Type | | | | |
| | Order No. | | | | |
| | Type | | | | |
| | Order No. | | | | |

**Note**

## Accessories for RRD relay modules

### Plug-in module with screw connection



### Technical data

| Contact data | |
|---|---|
| Nominal current | 10 A |
| Nominal voltage | 400 V AC |
| Dielectric strength, coil/contacts | >2500 $V_{eff}$ |
| Ambient temperature | –20 °C ... + 80 °C |
| Ingress protection class (IEC 61810) | IP 20 |
| Approvals | cURus |
| Connection cross-section / with ferrule | 2 x 2.5 $mm^2$ / 2 x 1.5 $mm^2$ |
| Terminal torque | 0.5 / 0.7 Nm |
| Humidity | 40 °C/93 rel. humidity, no condensation |

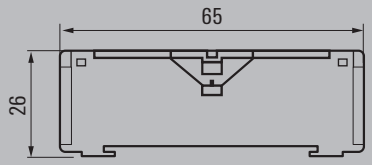
### Ordering data

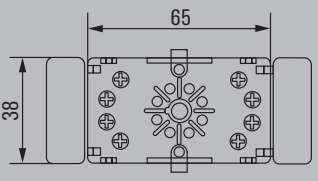
| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plug-in module with screw connections, 8-pole | SRD-I 2CO | 10 | **8869360000** |
| Plug-in module with screw connections, 11-pole | SRD-I 3CO | 10 | **8869350000** |

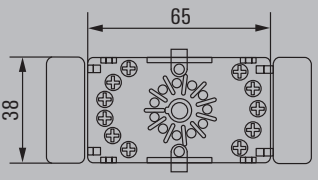
### Accessories

| Description | Type | Order No. |
|---|---|---|
| End bracket | WEW 35/2 | **1061200000** |
| Screwdriver | SD 0.6/3.5/100 | **9008330000** |
| Metal retaining clip, RRD | SRD-I CLIP M | **8869370000** |

### Dimensions in mm



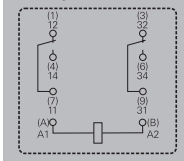
## RPW relay
## 2 CO AC/DC coil
## 3 CO AC/DC coil

- 6000 VA switching capacity
- Mechanical operating display
- With and without test button

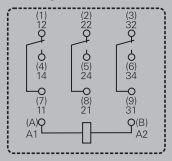


**Circuit diagram**
View of connections

2 changeover contacts

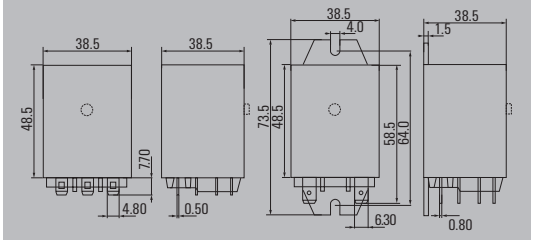



3 changeover contacts




Cap without lug, plug-in connections

Cap with fixing lug, 6.3 mm Faston (4.8 mm possible)



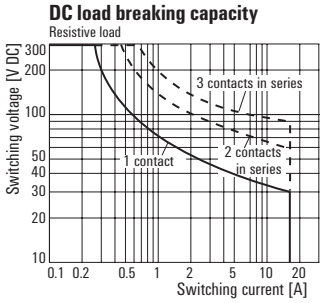

## Technical data

| | |
|---|---|
| **Output** | |
| Max. switching voltage, AC | 440 V |
| Continuous current | 16 A |
| Contact material | AgCdO |
| Mechanical service life | 20 x $10^6$ switching cycles |
| Sparkover time / Drop-out time | 15 ms / 10 ms |
| **Rated data** | |
| Status indicator / Free-wheel diode | Mechanical / No |
| Ambient temperature (operational) | -45 °C...+70 °C |
| Flammability class UL94 | V-0 |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CSA; cURus; VDE |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | ≥ 4 mm |
| Surge voltage category | |
| Pollution severity | |

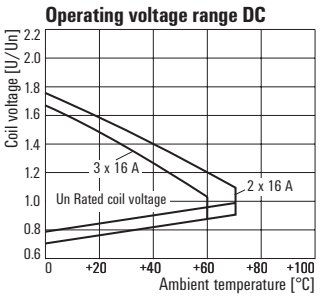
| **Dimensions** | | **Plug-in connection** |
|---|---|---|
| Length x width x height | mm | 38.5 / 38.5 / 48.5 |
| **Note** | | |

## Applications

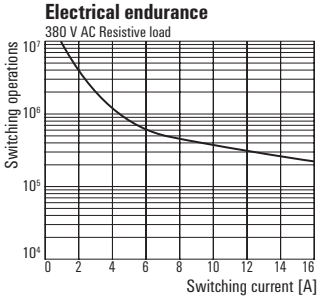
### DC load breaking capacity



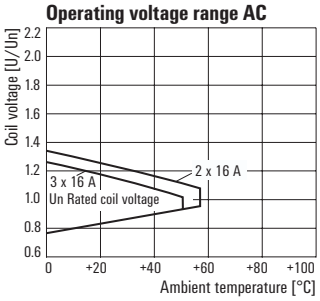

### Operating voltage range DC




### Electrical endurance




### Operating voltage range AC



## RPW relay
## 2 CO AC/DC coil
## 3 CO AC/DC coil

**Type code** RPW [ ] [ ] [ ] [ ]

**Typ** RIDER PoWer

**Contacts**
- 2 2 change-over contacts
- 7 3 change-over contacts

**Type of construction**
- 0 Without test button
- 3 With test button

**Housing**
- 2 Cap without lug, 4.8 mm Faston
- 5 Cap with lug, 6.3 mm Faston

**DC coil**

| | |
|---|---|
| 006 | 6 V DC |
| 012 | 12 V DC |
| 024 | 24 V DC |
| 048 | 48 V DC |
| 060 | 60 V DC |
| 110 | 110 V DC |

**AC coil**

| | |
|---|---|
| 506 | 6 V AC |
| 512 | 12 V AC |
| 524 | 24 V AC |
| 548 | 48 V AC |
| 615 | 115 V AC |
| 730 | 230 V AC |

## Ordering data

| | 24 V DC 2CO | 24 V AC 2CO | 230 V AC 2CO |
|---|---|---|---|
| **Input** | | | |
| Rated control voltage | 24 V DC | 24 V AC | 230 V AC |
| DC Response/dropout Volt | 18 V / 2.4 V | | |
| AC Response/dropout Volt | | 19.2 V / 9.6 V | 184 V / 69 V |
| Power rating | 1.2 W | 2.3 VA | 2.3 VA |
| Rated current DC | 50.5 mA | | |
| Rated current AC | | 94.2 mA | 10.1 mA |
| Coil resistance | 475 Ω ±10 % | 86 Ω ±10 % | 8300 Ω ±12 % |

| **Ordering data Relay** | | | | |
|---|---|---|---|---|
| w.o. test button | Type | RPW202024 | RPW202524 | RPW202730 |
| AgCdO | Order No. | **8690730000** | **on request** | **8690720000** |
| | Type | | | |
| | Order No. | | | |
| | Type | | | |
| | Order No. | | | |
| | Type | | | |
| | Order No. | | | |
| **Note** | | | | |

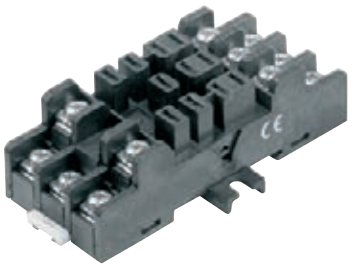
## Ordering data

| | 24 V DC 3CO | 24 V AC 3CO | 230 V AC 3CO |
|---|---|---|---|
| **Input** | | | |
| Rated control voltage | 24 V DC | 24 V AC | 230 V AC |
| DC Response/dropout Volt | 18 V / 2.4 V | | |
| AC Response/dropout Volt | | 19.2 V / 7.2 V | 184 V / 69 V |
| Power rating | 1.6 W | 2.8 VA | 2.8 VA |
| Rated current DC | 69.6 mA | | |
| Rated current AC | | 109.2 mA | 11.7 mA |
| Coil resistance | 345 Ω ±10 % | 80 Ω ±10 % | 7500 Ω ±10 % |

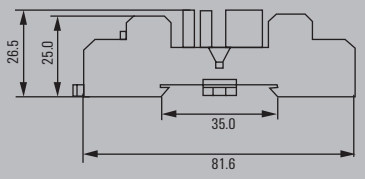
| **Ordering data Relay** | | | | |
|---|---|---|---|---|
| w.o. test button | Type | RPW702024 | RPW702524 | RPW702730 |
| AgCdO | Order No. | **8690760000** | **8690740000** | **8690750000** |
| | Type | | | |
| | Order No. | | | |
| | Type | | | |
| | Order No. | | | |
| | Type | | | |
| | Order No. | | | |
| **Note** | | | | |

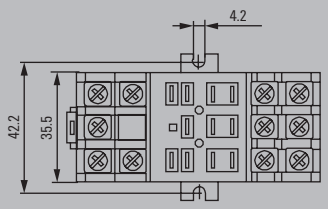
## Accessories for RPW

### Plug-in module with screw connection



### Dimensions in mm




### Technical data

| Contact data | |
|---|---|
| Nominal current | 16 A |
| Nominal voltage | 250 V AC |
| Dielectric strength, coil/contacts | >2500 Vms |
| Ambient temperature (operational) | –40 °C ... +40 °C |
| Terminal torque | 0.8 Nm |
| max. | 1.2 Nm |
| Humidity | 40 °C/93 rel. humidity, no condensation |

### Ordering data

| Description | Type | Qty. | Order No. |
|---|---|---|---|
| Plug-in module with screw connections | SPW 3C0 | 25 | **8697680000** |

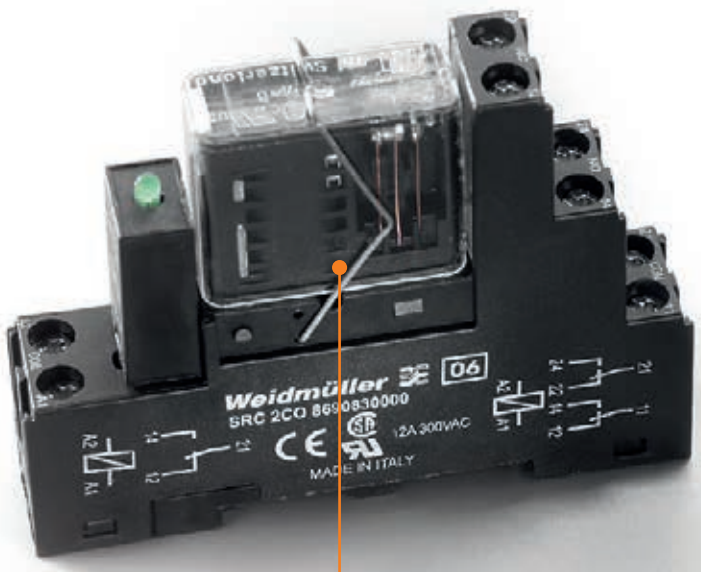
### Accessories

| Description | Type | Order No. |
|---|---|---|
| End bracket | WEW 35/2 | **1061200000** |
| Screwdriver | SD 0,6/3,5/100 | **9008330000** |

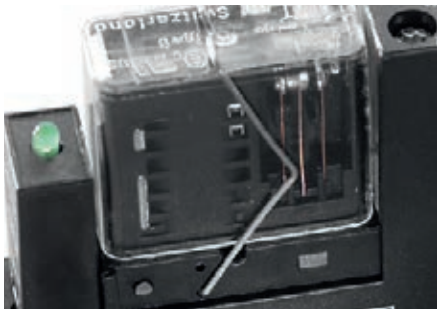
# Signal monitoring in safety-critical circuits

### Coupling relays with positively driven contacts

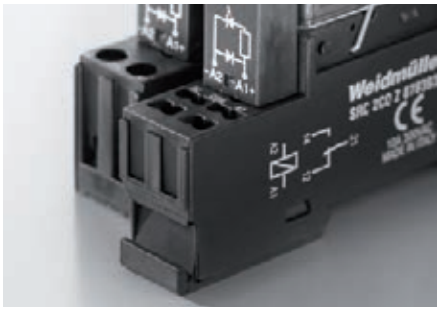
Weidmüller has expanded the RIDERSERIES to include a relay variant with force-guided contacts. Relays with force-guided contacts have a 99 % diagnostics coverage and an excellent reputation for use in safety systems. The contacts interlock mechanically with each other in order to ensure a synchronous 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 melts from an overload). The controller (or safety controller) detects the alert contact and then compares the set point and actual values. If a difference occurs, measures can then be taken to protect equipment and human life.



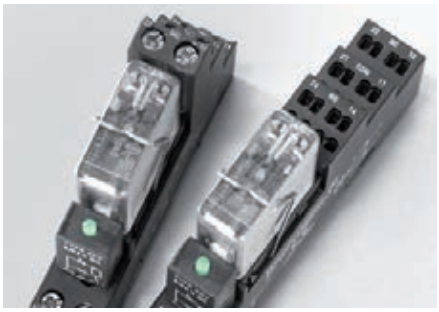

**Resistant to vibration**
A metal clip ensures that the relay module remains secure even under vibration / mechanical shock conditions.



**A variety of connection options**
The base is available either with the proven screw clamp connection or the time saving tension clamp connection.

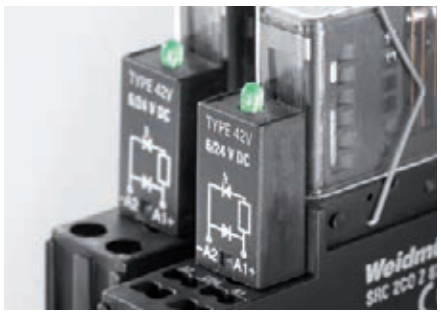


**Convenient**
Relay modules can be replaced quickly in the event of a fault without removing the connecting cable.



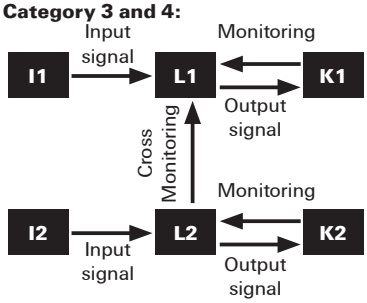


**On site diagnostics**
An easy to view LED display module with an integrated free wheeling diode is used to protect the series connected electronics.



**Safety-based output relay controls**
By connecting two coupling relays together with a safety based controller or safety switching devices, it is possible to set up a safe and efficient control mechanism that complies with the structure specified in EN ISO 13849-1 (Category 3 and 4).

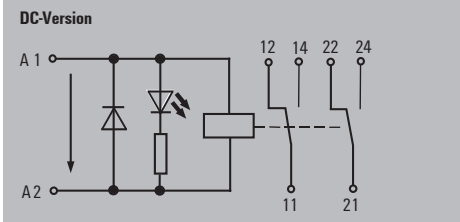
**Category 3 and 4:**

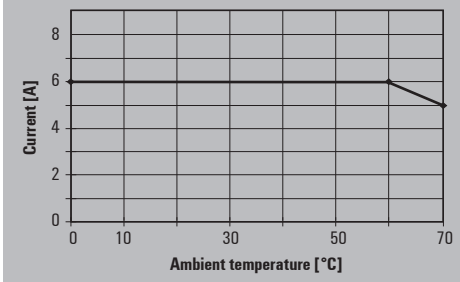


## RCI KIT with forcibly guided contacts
## 2 CO
## DC coil

Modular system comprising:
- Relay socket for rail mounting
- LED indicator unit
- Retaining clip
- Pluggable relay modules
- Markers






## Technical data

| Output | |
|---|---|
| Max. switching voltage, AC | 250 V |
| Continuous current | 6 A |
| Contact material | AgCuNi |
| Mechanical service life | > 50 x $10^6$ switching cycles |
| Sparkover time / Drop-out time | 12 ms / 5 ms |
| **Rated data** | |
| Status indicator / Free-wheel diode | Green LED / Yes |
| Ambient temperature (operational) | -40 °C...+70 °C |
| Flammability class UL94 | V-1 |
| Humidity | 40 °C / 95 % rel. humidity, no condensation |
| Approvals | CE |
| **Insulation coordination (EN 50 178)** | |
| Rated voltage | 250 V |
| Clearance and creepage distances for control side - load side | ≥ 10 mm |
| Surge voltage category | III |
| Pollution severity | 3 |
| Standards | DIN EN 50205 |

| Dimensions | | Screw connection | Tension clamp connection |
|---|---|---|---|
| Length x width x height | mm | 78.5 / 15.5 / 62 | 96.9 / 16 / 63.2 |
| **Note** | | | |

## Ordering data

| Input | 24 V DC 2CO LED |
|---|---|
| Rated control voltage | 24 V DC |
| Rated current DC | 40 mA |
| Power rating | 0.82 W |
| DC Response/dropout Volt | 16.8 V / 2.4 V |

| Ordering data | | |
|---|---|---|
| Screw connection | Type | RCIKIT 24VDC 2CO LD/FG |
| | Order No. | **1218410000** |
| Tension clamp connection | Type | RCIKITZ 24VDC 2CO LD/FG |
| | Order No. | **1218390000** |

| Ordering data<br>Spare relay | | |
|---|---|---|
| | Type | RCI42424FG |
| | Order No. | **1218380000** |

| Note | |
|---|---|
| | |

## 1 NCC, 1 NOC

## or 1 change-over contact

### RS 30

**Screw connection**

1 NOC
1 NCC



1 change-over contact



### RS 30

**Isolating plug with screw connection**

1 NOC
1 NCC



1 change-over contact

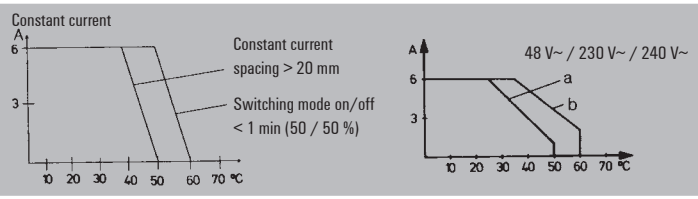


## Technical data

| **Input voltage** | **5 VTTL** | **24 V–** | **24 V≈** | **115 V~** | **230 V~** |
|---|---|---|---|---|---|
| **5...60 V ± 10 %; 115 V/230 V + 5 % – 15 %** | | | | | |
| Nominal consumption – (W) | 0.45 W[1]) | 0.45 W | 0.45 W | – | – |
| Nominal consumption ~ (VA) | – | – | 0.7 VA | 0.8 VA | 0.8 VA |
| Drop-out current of relay module (at 20 °C) | – | 3 mA | 2.5 mA– | – | – |
| Drop-out current of relay module (at 20 °C) | – | – | 3.5 mA~ | 1 mA~ | 1 mA~ |
| Pick-up current | – | 12 mA | – | 6 mA | – |
| Output voltage max. | 250 V | 250 V | 250 V | 250 V | 250 V |
| Continuous current | 5 A | 6 A | 6 A | 5 A | 3 A |

Derating curve
a = fitted on mounting rail in horizontal row without spacing
b = fitted on mounting rail in horizontal row with 20 mm spacing



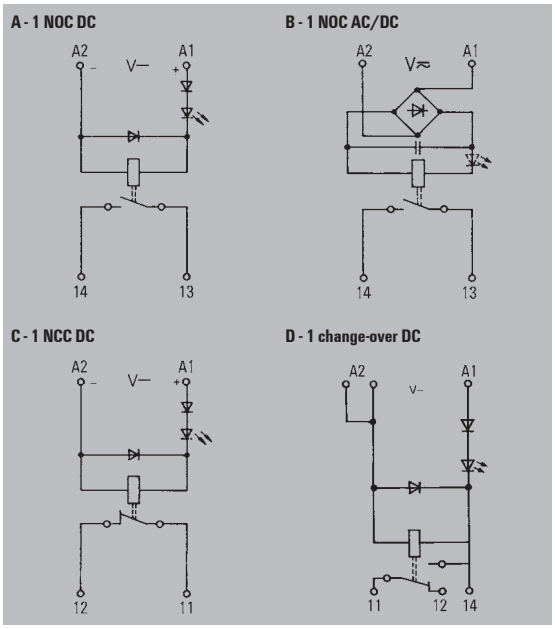




| | | | | | |
|---|---|---|---|---|---|
| Making current | 8 A | | | | |
| Making power under ohmic load | 2000 VA / 100 W | | | | |
| Min. switching power/switching current | 250 mW / 10 mA | | | | |
| Duration of bounce | ≤ 3 ms | | | | |
| Typical switching times | | | | | |
| – Pick-up delay | ≤ 8 ms | ≤ 8 ms | ≤ 8 ms | ≤ 9 ms | ≤ 10 ms |
| – Drop-out delay | ≤ 7 ms | ≤ 7 ms | ≤ 16 ms | ≤ 8 ms | ≤ 9 ms |
| Max. switching frequency | 70 Hz | 70 Hz | 30 Hz | 30 Hz | 30 Hz |
| Contact material | AgNi, gold-flashed | | | | |
| Service life, mechanical | $>10^7$ switching cycles | | | | |
| – 24 V–, 1 A, ohmic load | $> 5 \times 10^5$ switching cycles | | | | |
| – 230 V~, 3 A, ohmic load | $>7 \times 10^5$ switching cycles | | | | |
| Storage temperature | –40 °C...+60 °C | | | | |
| Ambient temperature, fitted on mounting rail | | | | | |
| – in horizontal row without spacing | –25 °C...+40 °C | | | | |
| – in horizontal row without spacing ≥ 20 mm spacing | –25 °C...+50 °C | | | | |
| Humidity | 40 °C/93 rel. humidity, no condensation | | | | |
| **Insulation coordination to EN 50178** | | | | | |
| Surge category | III | | | | |
| Pollution severity | 2 | | | | |
| **Dimensions** | | | | | |
| Mounting width | 11.2 mm NOC / NCC, 25 mm change-over contact | | | | |
| Length (at 90° to mounting rail) | 70 mm (74 mm BL/SL version) | | | | |
| Height (with TS 32 / TS 35 x 7.5) | 56 mm / 51.5 mm | | | | |

1) Rated consumption of auxiliary voltage 24 V–.

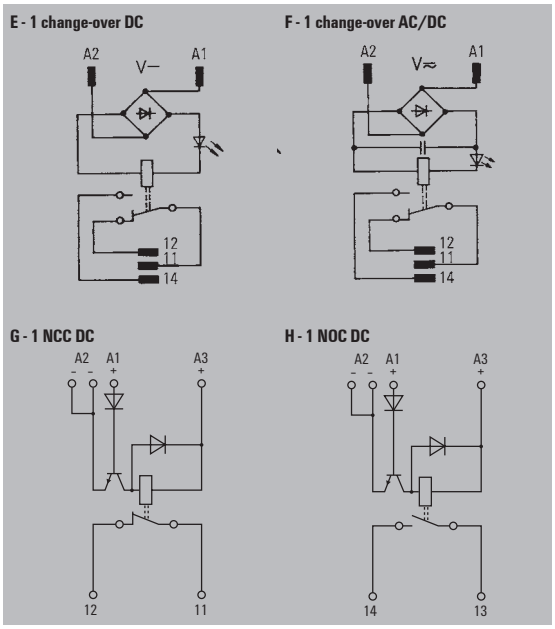
## RS 30

**Screw connection**




## RS 30

**Isolating plug with screw connection**



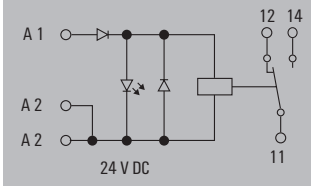

## Ordering data

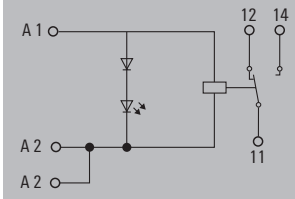
| Wiring diagram | | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|
| Input voltage | Function indicator | NOC | NOC | NCC | change-over | change-over | change-over | NCC | NOC |
| 5 V–, TTL | without | | | | | | | 1167660000 | 1167760000 |
| 24 V– | without | 1101661001 | | 1100961001 | | 1100260000 | | | |
| | LED green | 1101611001 | | 1100911001 | 1181511001 | 1100210000 | | | |
| | LED red | 1101621001 | | 1100921001 | 1181521001 | 1100220000 | | | |
| 24 V≃ | without | | | | | | 1100360000 | | |
| | LED green | | 1101711001 | | | | | | |
| | LED red | | 1101721001 | | | | | | |
| 115 V~ | without | | | | | | 1100760000 | | |
| | LED green | | 1102111001 | | | | | | |
| | LED red | | 1102121001 | | | | | | |
| 230 V~ | without | | 1102261001 | | | | 1100860000 | | |
| | LED green | | 1102211001 | | | | | | |
| | LED red | | 1102221001 | | | | | | |

## 1 CO contact
## AC/DC coil

- For high switching capacities
- Suitable for switching inductive loads






Residual voltages

## Technical data

| Output | |
|---|---|
| Max. switching voltage, AC / Continuous current | 250 V / 16 A |
| Min. switching power | 1 W |
| Sparkover time / Drop-out time | |
| Contact material | AgCdO |
| Mechanical service life | 3 x $10^7$ switching cycles |
| Max. switching frequency at rated load | 0.1 Hz |
| **Rated data** | |
| Status indicator / Free-wheel diode | red LED / Yes |
| Reverse polarity protection | Available |
| Ambient temperature (operational) | -25 °C...+40 °C |
| Storage temperature | -40 °C...+60 °C |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE |
| **Insulation coordination (EN 50 178)** | |
| Standards | DIN EN 50178 |
| Rated voltage | 250 V |
| Impulse withstand voltage | 6 kV |
| Clearance and creepage distances for control side - load side | > 3 mm |
| Surge voltage category | III |
| Pollution severity | 2 |

| Dimensions | | Screw connection |
|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 4 |
| Length x width x height | mm | 53.5 / 25 / 70 |
| **Note** | | |

## Ordering data

| Input | 24 V DC 1CO | 115 V AC 1CO | 230 V AC 1CO |
|---|---|---|---|
| Rated control voltage | 24 V DC ±10 % | 115 V AC +5 % / -15 % | 230 V AC +5 % / -15 % |
| Rated current AC | | 8 mA | 4.5 mA |
| Rated current DC | 40 mA | | |
| Power rating | 1 W | 1 VA | 1 VA |
| AC Response/dropout Volt | | 98 V | 195 V |
| DC Response/dropout Volt | 21.5 V | | |
| AC pickup/dropout current | | -/1.5 mA | -/2.2 mA |
| DC pickup/dropout current | -/11.5 mA | | |

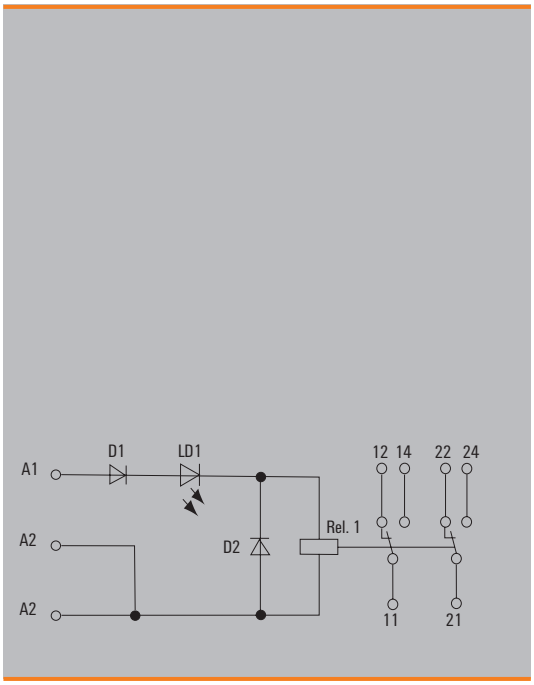
| Ordering data | | | | |
|---|---|---|---|---|
| Screw connection | Type | RS 31 24VDC LD LP 1U | RS 31 115VAC LD LP 1U | RS 31 230VAC LD LP 1U |
| | Order No. | **1128361001** | **1150461001** | **1128461001** |
| | Type | | | |
| | Order No. | | | |

| Note | | | |
|---|---|---|---|
| | | | |

## 2 CO contacts
## positively-driven contacts

- DC coil
- Relay module with 2 positively-driven CO contacts, acc. to EN 50205
- 2-pole safety relays with 2 CO contacts*)
- For mounting on TS 32/35






## Technical data

| Output | |
|---|---|
| Max. switching voltage, AC / Continuous current | 250 V / 4 A |
| Min. switching power | 5 V / 10 mA |
| Sparkover time / Drop-out time | |
| Contact material | AgNi 90/10 |
| Mechanical service life | 20 x $10^6$ switching cycles |
| Max. switching frequency at rated load | 0.1 Hz |
| **Rated data** | |
| Status indicator / Free-wheel diode | red LED / No |
| Reverse polarity protection | Yes |
| Ambient temperature (operational) | -25 °C...+40 °C |
| Storage temperature | -40 °C...+85 °C |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE |
| **Insulation coordination (EN 50 178)** | |
| Standards | DIN EN 50178, DIN EN 50205 |
| Rated voltage | 300 V |
| Impulse withstand voltage | 4 kV |
| Clearance and creepage distances for control side - load side | ≥ 4 mm |
| Surge voltage category | III |
| Pollution severity | 2 |

| Dimensions | | Screw connection |
|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 4 |
| Length x width x height | mm | 63.5 / 25 / 70 |
| **Note** | | *) According to EN50205, only 1 NO / 1 NC is permitted for safety circuits |

## Ordering data

| Input | 24 V DC 2CO |
|---|---|
| Rated control voltage | 24 V DC ±10 % |
| Rated current AC | |
| Rated current DC | 21 mA |
| Power rating | 0.5 W |
| AC Response/dropout Volt | |
| DC Response/dropout Volt | 16 V / 10 V |
| AC pickup/dropout current | |
| DC pickup/dropout current | 12.5 mA / 7 mA |

| Ordering data | |
|---|---|
| Type | RS32 24 VDC SAFETY |
| Order No. | **8872160000** |
| Type | |
| Order No. | |

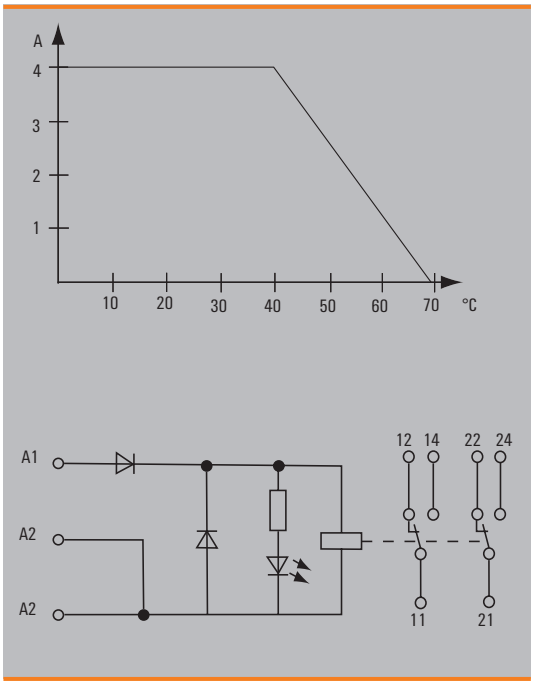
| Note | |
|---|---|

## 2 CO contacts
## DC coil

- Relay modules with two CO contacts
- Relay soldered
- Optional multi-voltage input
- For mounting on TS 32/35








## Technical data

| Output | |
|---|---|
| Max. switching voltage, AC / Continuous current | 250 V / 4 A |
| Min. switching power | 10 V / 10 mA |
| Sparkover time / Drop-out time | |
| Contact material | AgNi 90/10 |
| Mechanical service life | 3 x $10^7$ switching cycles |
| Max. switching frequency at rated load | 0.1 Hz |
| **Rated data** | |
| Status indicator / Free-wheel diode | red LED / Yes |
| Reverse polarity protection | Available |
| Ambient temperature (operational) | -25 °C...+40 °C |
| Storage temperature | -40 °C...+60 °C |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE |
| **Insulation coordination (EN 50 178)** | |
| Standards | DIN EN 50178 |
| Rated voltage | 250 V |
| Impulse withstand voltage | 4 kV |
| Clearance and creepage distances for control side - load side | > 3 mm |
| Surge voltage category | III |
| Pollution severity | 2 |

| Dimensions | | Screw connection |
|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 4 |
| Length x width x height | mm | 63.5 / 25 / 70 |
| **Note** | | |

## Ordering data

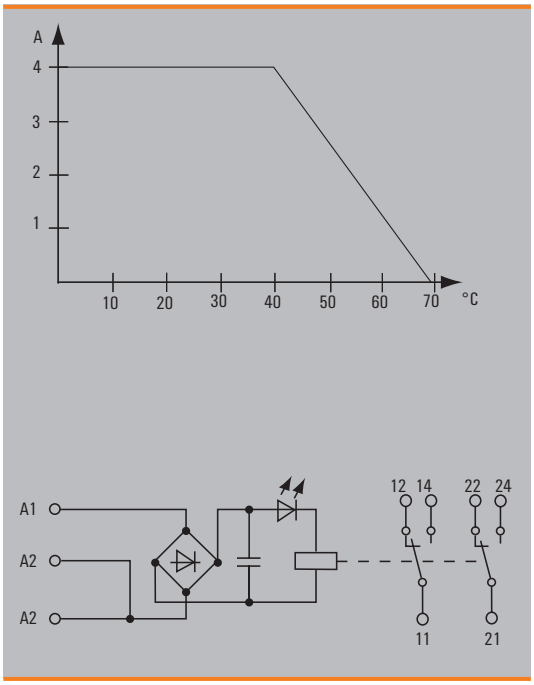
| Input | 24 V DC 2CO |
|---|---|
| Rated control voltage | 24 V DC ±10 % |
| Rated current AC | |
| Rated current DC | 25 mA |
| Power rating | 0.6 W |
| AC Response/dropout Volt | |
| DC Response/dropout Volt | 21.5 V |
| AC pickup/dropout current | |
| DC pickup/dropout current | -/5 mA |

| Ordering data | | |
|---|---|---|
| Screw connection | Type | RS 32 24VDC LD LP 2U |
| | Order No. | **9406121001** |
| | Type | |
| | Order No. | |

| Note | |
|---|---|

**2 CO contacts**
**UC coil**






## Technical data

| | |
|---|---|
| **Output** | |
| Max. switching voltage, AC / Continuous current | 250 V / 4 A |
| Min. switching power | 12 V / 10 mA |
| Sparkover time / Drop-out time | |
| Contact material | AgNi 90/10 |
| Mechanical service life | 30 x $10^7$ switching cycles |
| Max. switching frequency at rated load | 0.1 Hz |
| **Rated data** | |
| Status indicator / Free-wheel diode | red LED / No |
| Reverse polarity protection | Available |
| Ambient temperature (operational) | -25 °C...+40 °C |
| Storage temperature | -40 °C...+60 °C |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE; CSA; MARITREG; ROHS |
| **Insulation coordination (EN 50 178)** | |
| Standards | DIN EN 50178 |
| Rated voltage | 250 V |
| Impulse withstand voltage | 4 kV |
| Clearance and creepage distances for control side - load side | > 3 mm |
| Surge voltage category | III |
| Pollution severity | 2 |

| **Dimensions** | | **Screw connection** |
|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 4 |
| Length x width x height | mm | 63.5 / 25 / 70 |
| **Note** | | |

## Ordering data

| | 24 V UC 2CO | 115 V UC 2CO | 230 V UC 2CO |
|---|---|---|---|
| **Input** | | | |
| Rated control voltage | 24 V UC ±10 % | 115 V UC +5 % / -15 % | 230 V UC +5 % / -15 % |
| Rated current AC | 28 mA | 5 mA | 4.3 mA |
| Rated current DC | 18 mA | 5 mA | 4.3 mA |
| Power rating | 0.6 W / 0.9 VA | 0.5W / 0.6VA | 1 W / 1 VA |
| AC Response/dropout Volt | | | |
| DC Response/dropout Volt | 21.5 V | 98 V | 195 V |
| AC pickup/dropout current | -/2.5 mA | -/1.5 mA | -/2 mA |
| DC pickup/dropout current | -/4.5 mA | 1 mA | -/1.2 mA |

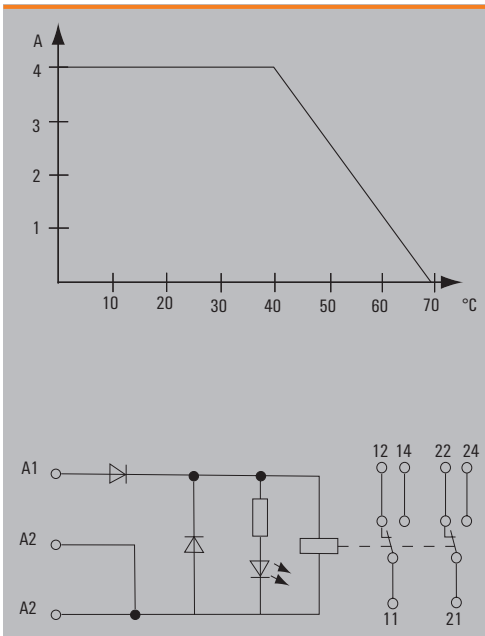
| **Ordering data** | | | | |
|---|---|---|---|---|
| Screw connection | Type | RS 32 24VUC LD LP 2U | RS 32 115VUC LD LP 2U | RS 32 230VUC LD LP 2U |
| | Order No. | **9406221001** | **9406621001** | **9406721001** |
| | Type | | | |
| | Order No. | | | |

| **Note** | | | |
|---|---|---|---|
| | | | |

## 2 CO contacts
## multiple voltage input








## Technical data

| Output | |
|---|---|
| Max. switching voltage, AC / Continuous current | 250 V / 4 A |
| Min. switching power | 10 V / 10 mA |
| Sparkover time / Drop-out time | 13 ms / 10 ms |
| Contact material | AgNi 90/10 |
| Mechanical service life | 30 x $10^7$ switching cycles |
| Max. switching frequency at rated load | 0.1 Hz |
| **Rated data** | |
| Status indicator / Free-wheel diode | red LED / No |
| Reverse polarity protection | Available |
| Ambient temperature (operational) | -25 °C...+40 °C |
| Storage temperature | -40 °C...+60 °C |
| Humidity | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE |
| **Insulation coordination (EN 50 178)** | |
| Standards | DIN EN 50178 |
| Rated voltage | 250 V |
| Impulse withstand voltage | 4 kV |
| Clearance and creepage distances for control side - load side | > 3 mm |
| Surge voltage category | III |
| Pollution severity | 2 |

| Dimensions | | Screw connection |
|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 4 |
| Length x width x height | mm | 63.5 / 25 / 70 |
| **Note** | | |

## Ordering data

| Input | 24-48 V UC 2CO | 115-230 V UC 2CO |
|---|---|---|
| Rated control voltage | 24 V UC ±10 %, 48 V UC ±10 % | 115 V UC +5 % / -15 %, 230 V UC +5 % / -15 % |
| Rated current AC | 28 mA / 22 mA | 5.6 mA / 5.3 mA |
| Rated current DC | 18 mA / 20 mA | 5.4 mA / 5 mA |
| Power rating | 0.6 W / 0.9 VA | 1 W / 1 VA |
| AC Response/dropout Volt | | |
| DC Response/dropout Volt | 21.5 V / 43 V | 98 V / 195 V |
| AC pickup/dropout current | 3 mA / 4.5 mA | 1.5 mA / 2 mA |
| DC pickup/dropout current | 5 mA / 2 mA | 1 mA / 1.2 mA |

| Ordering data | | | |
|---|---|---|---|
| Screw connection | Type | RS 32 24-48VUC LD LP 2U | RS 32 115-230VUC LD 2U |
| | Order No. | **1122661001** | **1122761001** |
| | Type | | |
| | Order No. | | |

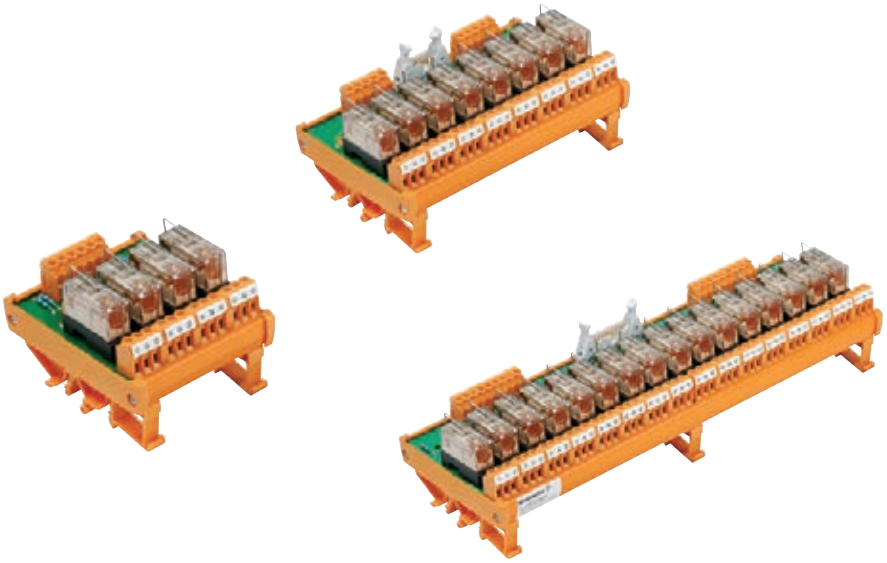
| Note | | |
|---|---|---|

## 4-/8-/16-way, ea. with 1 COC

### RSM 4 R / RSM 4 RS
**4 relay modules**
**soldered or plug-in**

### RSM 8 R / RSM 8 RS
**8 relay modules**
**soldered or plug-in**

### RSM 16 R / RSM 16 RS
**16 relay modules**
**soldered or plug-in**

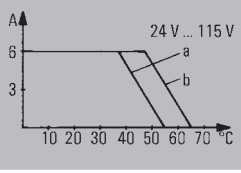


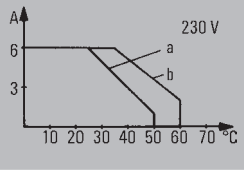
## Technical data

| | | | | | |
|---|---|---|---|---|---|
| **Rated data** | | | | | |
| **Input voltage** | | **24 V DC** | **24 V AC/DC** | **115 V AC/DC** | **230 V AC** |
| Nominal consumption DC | soldered relay module | 0.45 W | – | – | – |
| | plug-in relay module | 0.75 W | 0.45 W | – | – |
| Nominal consumption AC | soldered relay module | – | – | – | – |
| | plug-in relay module | – | 0,7 VA | 0.6 VA | 1.2 VA |
| Pick-up current DC | soldered relay module | 12 mA | – | – | – |
| | plug-in relay module | 23 mA | 12 mA | 5 mA | – |
| Pick-up current AC | soldered relay module | – | – | – | – |
| | plug-in relay module | – | 16.5 mA | 6 mA | 4 mA |
| Drop-out current of relay module (at 20 °C) | | 2 mA | | | 1 mA |
| Output voltage max. | | 250 V | 250 V | 250 V | 250 V |
| Continuous current | | 6 A | 6 A | 6 A | 3 A |

Derating curve
a = fitted on mounting rail in horizontal row without spacing
b = fitted on mounting rail in horizontal row with 20 mm spacing



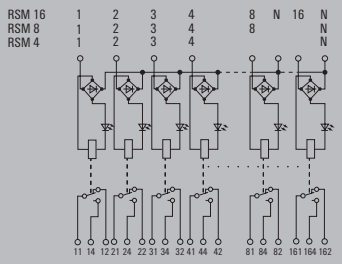



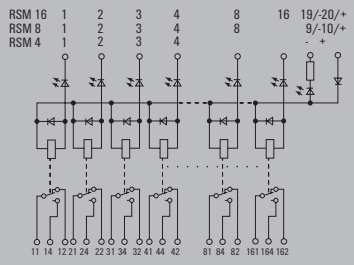

| | | | | | |
|---|---|---|---|---|---|
| Typical making times | | | | | |
| | Pick-up delay (AC/DC) | ≤ 8 ms | ≤ 10 ms / 10 ms | ≤ 8 ms / 10 ms | ≤ 10 ms |
| | Drop-out delay (AC/DC) | ≤ 7 ms | ≤ 15 ms / 20 ms | ≤ 5 ms / 8 ms | ≤ 10 ms |

| | | |
|---|---|---|
| Duration of bounce | | ≤ 3 ms |
| Making current | | 8 A |
| Making power under ohmic load | | 2000 VA |
| Min. switching power / switching current | | 250 mW/10 mA |
| Contact material | | AgNi 90/10, AgNi0,15, gold-flashed |
| Service life | mechanical | > 30 x $10^6$ switching cycles |
| | 24 V DC, 1 A, ohmic load | > 5 x $10^5$ switching cycles |
| | 230 V AC, 3 A, ohmic load | > 7 x $10^5$ switching cycles |
| Storage temperature | | –40 °C...+60 °C |
| Ambient temperature | | –25 °C...+50 °C |
| Humidity | | 40 °C/93 rel. humidity, no condensation |
| **Insulation coordination to EN 50178** | | |
| Surge category | | III |
| Pollution severity | | 2 |
| **Dimensions** | | |
| Conductor cross-section (screw connection) | | 0.5...2.5 mm² |

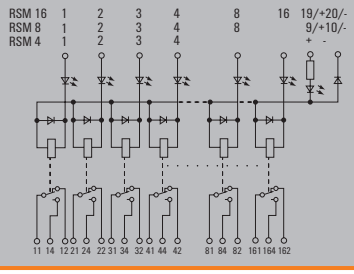
**DC/AC/AC voltage**




**DC voltage, negative-switching**
common plus potential,
minus connected




**DC voltage, positive-switching**
common minus potential,
plus connected




## Ordering data

| Connection system | | Input voltage | | 4 relay modules RSM 4 R/RS (B = 75 mm) | 8 relay modules RSM 8 R/RS (B = 145 mm) | 16 relay modules RSM 16 R/RS (B = 285 mm) |
|---|---|---|---|---|---|---|
| Input **Screw connection** | • Plug-in relay module Screw connection and multiple plug to IEC 603-1/DIN 41651 | **24 V DC, switching plus** | Relay module pluggable | **1113361001** | **1113561001** | **1113761001** |
| | • Relay module soldered Multiple plug to IEC 603-1/DIN 41651 | | Relay module soldered | **1112361001** | **1107761001** | **1107861001** |
| Output **Screw connection** | | **24 V DC, switching minus** | Relay module pluggable | **1113461001** | **1113661001** | **1113861001** |
| | | **24 V AC/DC** | Relay module pluggable | **1173461001** | **1173561001** | **1173661001** |
| | | **115 V AC/DC** | Relay module pluggable | **1114561001** | **1114661001** | **1114761001** |
| | | **230 V AC** | Relay module pluggable | **1114861001** | **1114961001** | **1115061001** |

## Spare relay modules (pluggable)

| | Input voltage | Contact material | Remarks | Order No. |
|---|---|---|---|---|
| **For RSM ... R/RS, 24 V** | **24 V DC** | AgNi 90/10 | RT 314024 with clip | **8630780000** |
| | | AgNi 90/10 | RT 314024 without clip | **4058480000** |
| **For RSM ... R/RS, 48 V** | **48 V DC** | AgNi 90/10 | RT 314048 without clip | **4058740000** |
| **For RSM ... R/RS, 115 V and 230 V** | **115 V DC** | AgNi 90/10 | RT 314110 with clip | **8630770000** |
| | | AgNi 90/10 | RT 314110 without clip | **4058500000** |

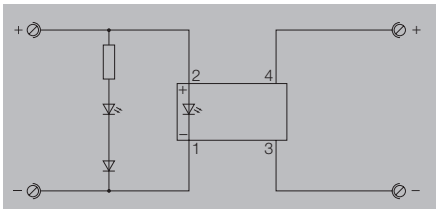
**Note:** Can also be ordered with clamp for conversion to new RSM relay module.

## RSO 30

- Pluggable connections
- DC output up to 3 A @ 5 to 60 V DC
- AC output up to 3 A @ 24 to 240 V AC
- 11 mm modular width

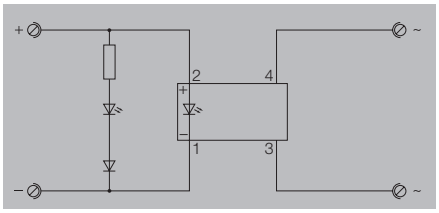
## RSO 30-DV/SC






## RSO 30-DV/SA






## Technical data

| | | |
|---|---|---|
| **Control side** | | |
| Rated control voltage | 5...24 V DC ±20 % | 5...24 V DC ±20 % |
| Power rating | | |
| Rated auxiliary voltage | No | No |
| Status indicator | Green LED | Green LED |
| **Load side** | | |
| Rated switching voltage | 2...60 V DC | 24...250 V AC |
| Rated switching current | 3 A | 3 A |
| Voltage drop at max. load | | 1.6 V |
| Switch-on delay / Switch-off delay | 0.1 ms / 0.75 ms | No-voltage switch / |
| Short-circuit-proof / Protective circuit, load side | No / | No / |
| **General data** | | |
| Ambient temperature (operational) | -25 °C...+40 °C | -25 °C...+40 °C |
| Storage temperature | -40 °C...+85 °C | -40 °C...+85 °C |
| Humidity | 40 °C / 93 % rel. humidity, no condensation | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE | CE |
| **Insulation coordination (EN 50 178)** | | |
| Standards | DIN EN 50178 | DIN EN 50178 |
| Rated voltage | 300 V | 300 V |
| Rated impulse withstand voltage | 4 kV | 4 kV |
| Clearance and creepage distances for control side - load side | ≥ 8 mm | ≥ 8 mm |
| Surge voltage category | III | III |
| Pollution severity | 2 | 2 |

| | | | |
|---|---|---|---|
| **Dimensions** | | | |
| Clamping range (nominal / min. / max.) | mm² | 2.5 / 0.5 / 2.5 | 2.5 / 0.5 / 2.5 |
| Length x width x height | mm | 50 / 11 / 80 | 50 / 11 / 80 |
| **Note** | | | |

## Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| RSO 30/DV 5-24V CC/SC | 20 | **9443100000** |

| Type | Qty. | Order No. |
|---|---|---|
| RSO 30/DV 5-24V CC/SA | 20 | **9443110000** |

**Note**

## Accessories

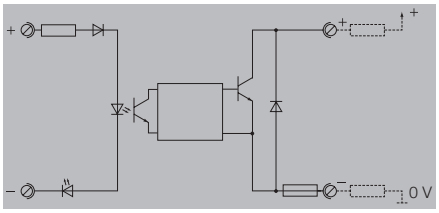
**Note**

## RSO 31

- Pluggable connections
- DC output up to 3 A @ 5 to 60 V DC
- AC output up to 3 A @ 24 to 240 V AC
- 12.5 mm width
- Pluggable fuse in output circuit

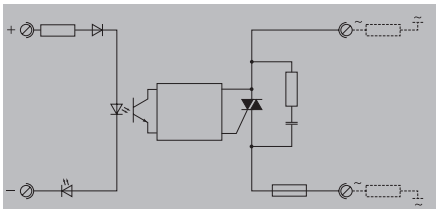
## RSO 31 -ODC/F






## RSO 31 -OAC/F






## Technical data

| | | |
|---|---|---|
| **Control side** | | |
| Rated control voltage | 24 V DC ±10 % | 24 V DC ±10 % |
| Power rating | 0.29 W | 0.29 W |
| Rated auxiliary voltage | No | No |
| Status indicator | red LED | red LED |
| **Load side** | | |
| Rated switching voltage | 5...50 V DC | 24...250 V AC |
| Rated switching current | 3 A | 3 A |
| Voltage drop at max. load | 1.6 V | 1.6 V |
| Switch-on delay / Switch-off delay | 0.1 ms / 0.75 ms | No-voltage switch / |
| Short-circuit-proof / Protective circuit, load side | No / | No / |
| **General data** | | |
| Ambient temperature (operational) | -25 °C...+40 °C | -25 °C...+40 °C |
| Storage temperature | -40 °C...+85 °C | -40 °C...+85 °C |
| Humidity | 40 °C / 93 % rel. humidity, no condensation | 40 °C / 93 % rel. humidity, no condensation |
| Approvals | CE | CE |
| **Insulation coordination (EN 50 178)** | | |
| Standards | DIN EN 50178 | DIN EN 50178 |
| Rated voltage | 300 V | 300 V |
| Rated impulse withstand voltage | 4 kV | 4 kV |
| Clearance and creepage distances for control side - load side | ≥ 8 mm | ≥ 8 mm |
| Surge voltage category | III | III |
| Pollution severity | 2 | 2 |

| | | | |
|---|---|---|---|
| **Dimensions** | | | |
| Clamping range (nominal / min. / max.) | $mm^2$ | 2.5 / 0.5 / 2.5 | 2.5 / 0.5 / 2.5 |
| Length x width x height | mm | 65.5 / 12.5 / 80 | 65.5 / 12.5 / 80 |
| **Note** | | | |

## Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| RSO31-ODC24/F | 20 | **9430820000** |

| Type | Qty. | Order No. |
|---|---|---|
| RSO31-OAC24/F | 20 | **9430320000** |

**Note**

## Accessories

**Note**

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

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- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

*В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.*

*Конструкторский отдел помогает осуществить:*

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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