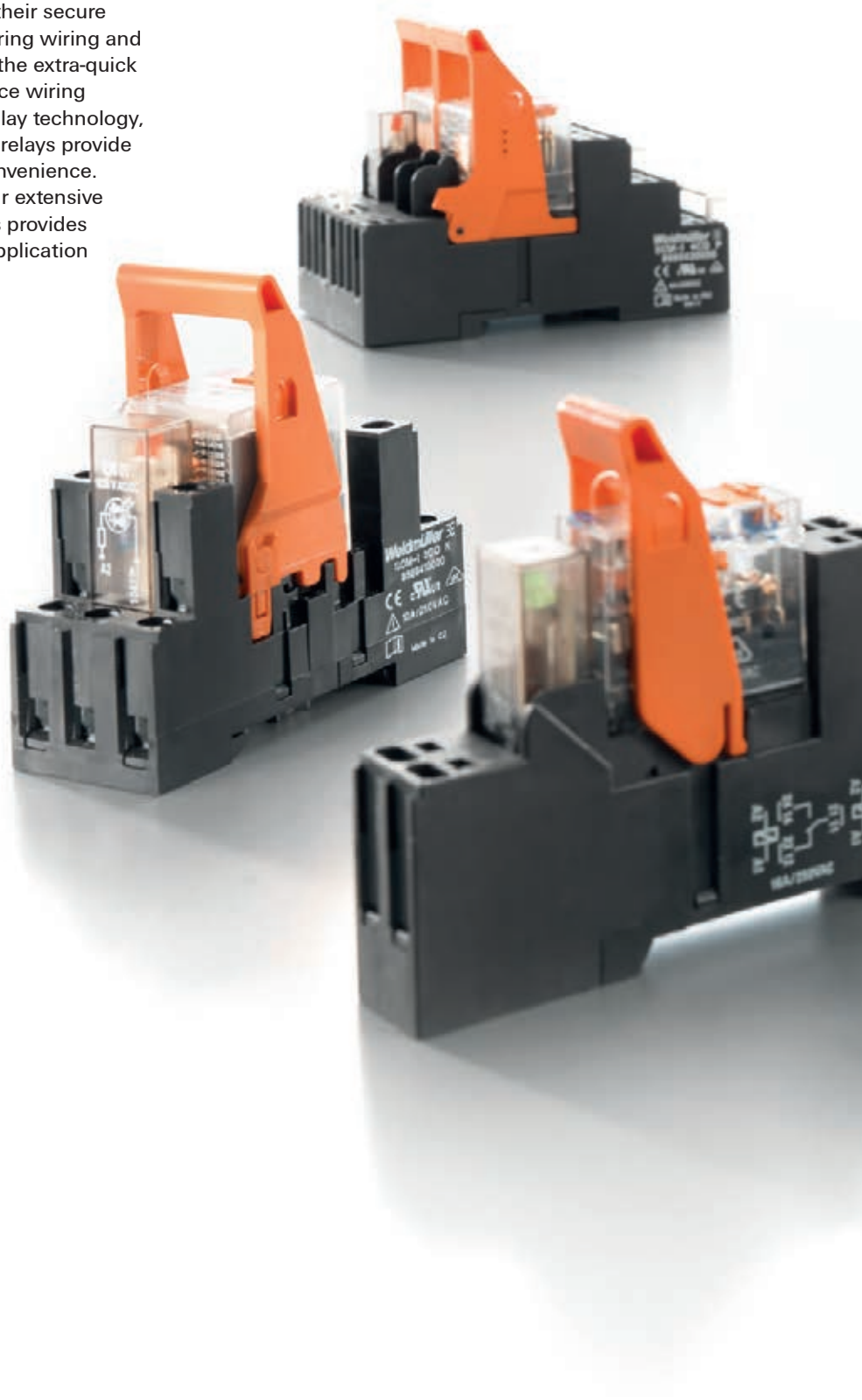
Industrial relay modules and solid-state relays

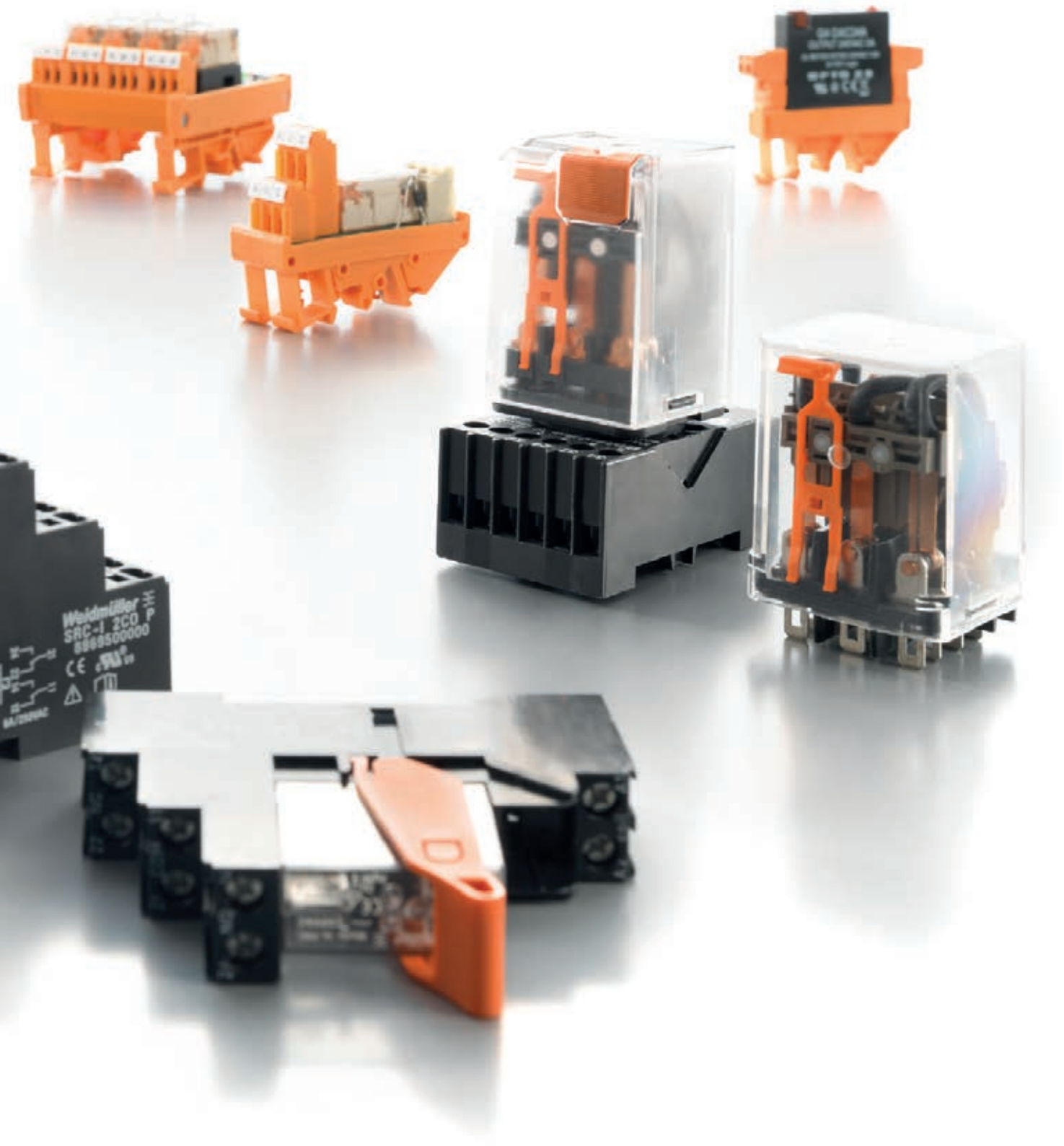
Industrial relay modules and solid-state relays	Industrial relay modules and solid-state relays – Overview	B.2
	RIDERSERIES – Overview	B.4
	RIDERSERIES – Relay modules	B.6
	RIDERSERIES FG – Overview	B.44
	RIDERSERIES FG – Relay modules	B.46
	RS-SERIES – Relay modules	B.48
	RSO-SERIES – Solid-state relays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

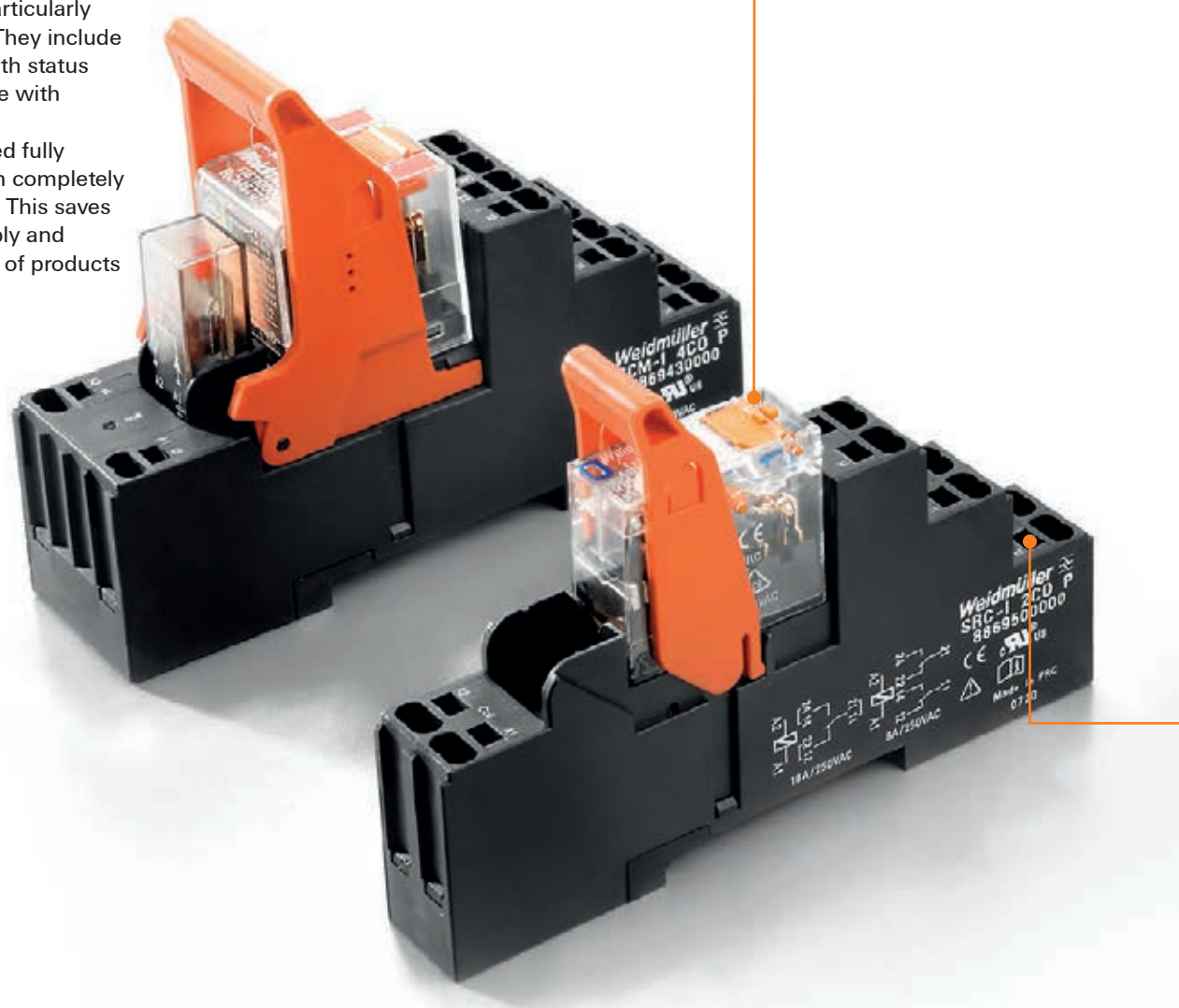
PUSH IN

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.

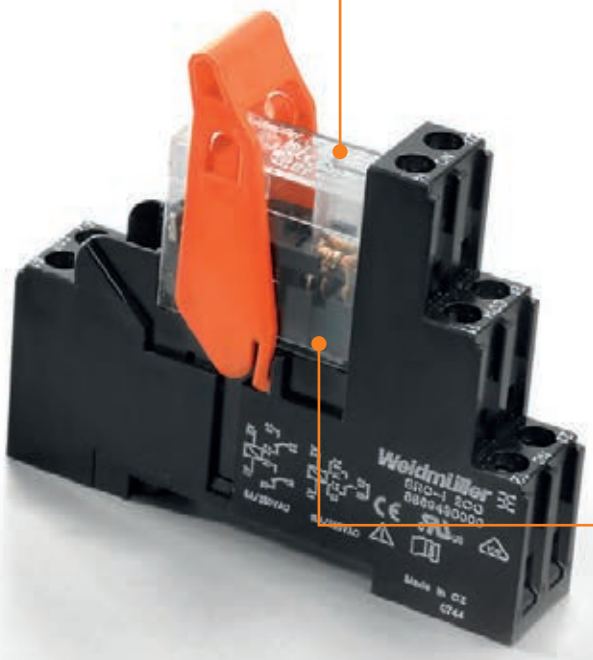


Simple
The stay-down test button simplifies commissioning and service work



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

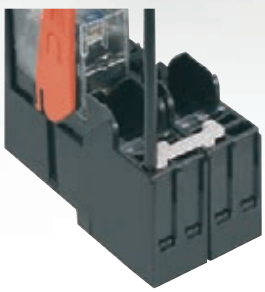




Safe
The heavy-duty industrial pins ensure a reliable connection



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



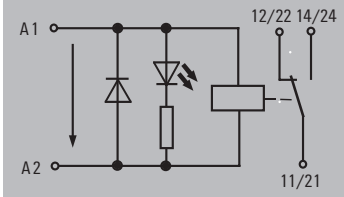
RCI KIT with screw connection

1 CO

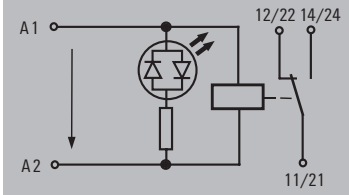
- 4000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



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

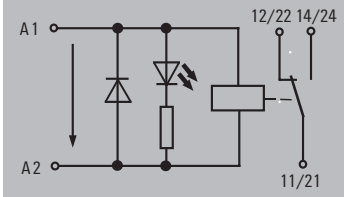
RCI-KITP with PUSH IN connection

1 CO

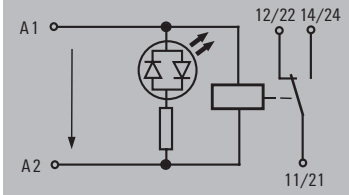
- 4000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



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 %

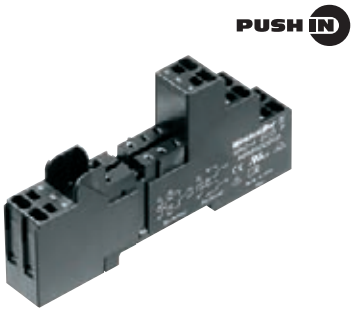
Ordering data Relay with socket					
w. test button	Type	RCIKITP 24VDC 1CO LD/PB	RCIKITP 24VAC 1CO LD/PB	RCIKITP115VAC 1CO LD/PB	RCIKITP230VAC 1CO LD/PB
	Order No.	**8897190000**	**8897200000**	**8897210000**	**8897220000**
w.o. test button	Type	RCIKITP 24VDC 1CO LD	RCIKITP 24VAC 1CO LD	RCIKITP 115VAC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

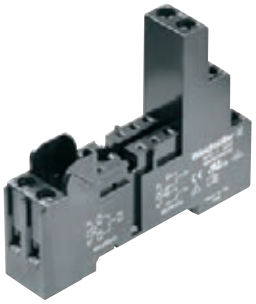
Note				

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**

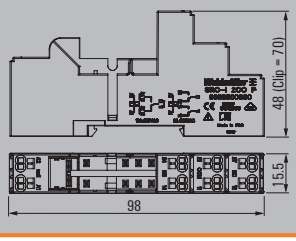
Accessories

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**

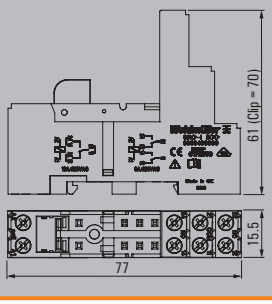
Dimensions

SRC-I 2 CO P



Dimensions

SRC-I 2 CO



Dimensions in mm

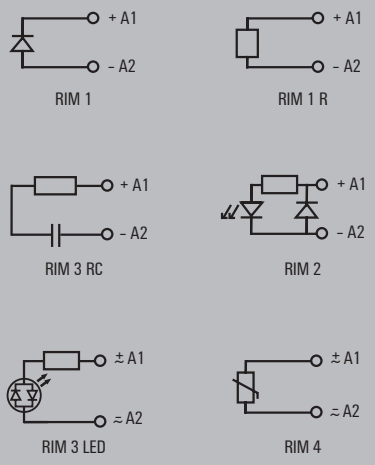
LED and protective modules for the SRC-I plug-in frame

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

Ordering data

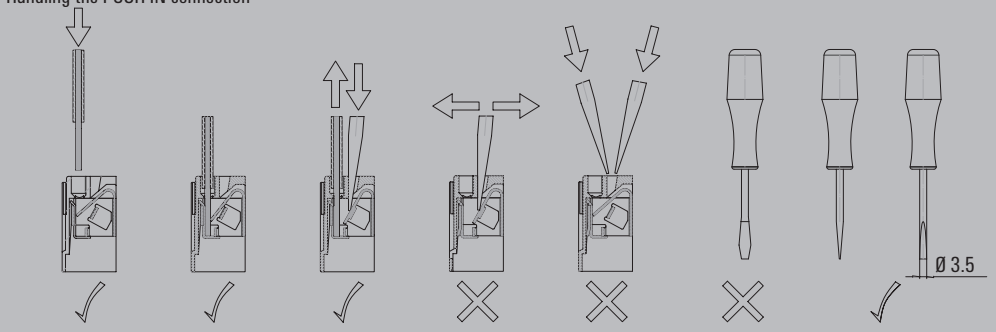
Description
Free Wheel diode 1N4007
Resistor 100 kΩ 1 Watt
RC-element 6 ... 60 V AC; 470 Ω / 220 nF
RC-element 110 ... 230 V AC; 4.7 Ω / 10 nF
Varistor protection 24 V; S07K30
Varistor protection 110 V; S07K130
Varistor protection 230 V; S07K275
LED
LED 6 ... 24 V DC with free wheel diode
LED 24 ...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



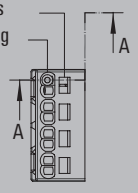
Warnings and notes on usage

Handling the PUSH IN connection

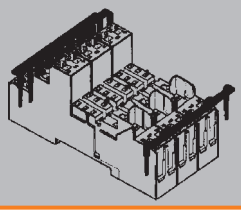


Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening

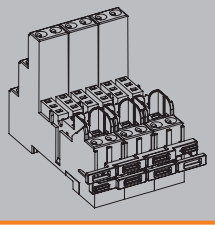


Cross-connector mounting for PUSH IN base



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



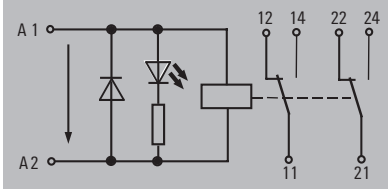
RCI KIT with screw connection

2 CO

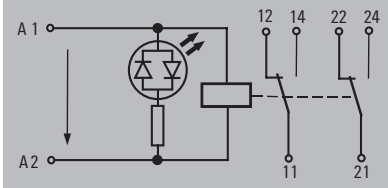
- 2000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



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					

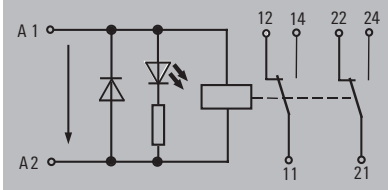
RCI-KITP with PUSH IN connection

2 CO

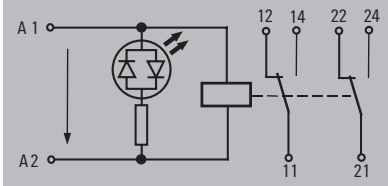
- 2000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



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				

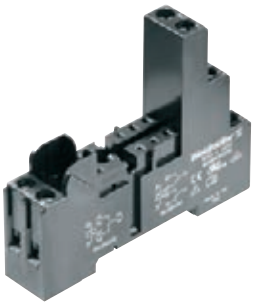
Accessories for RCI KIT relay modules, 2 CO

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

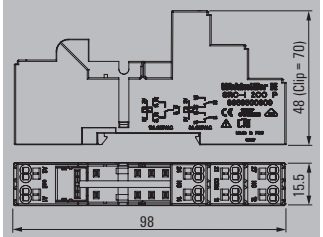
Description	Type	Qty.	Order No.
Plug-in module, snaps onto TS35 DIN mounting rail, 2-pole	SRC-I 2CO P		**8869500000**
	SRC-I 2CO		**8869490000**
	SRC-I 2CO N		**8869480000**

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**

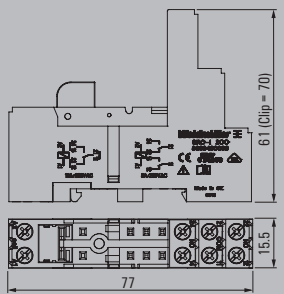
Dimensions

SRC-I 2 CO P



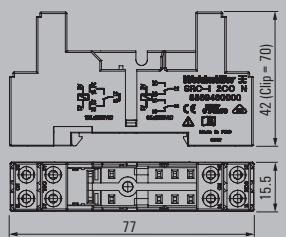
Dimensions

SRC-I 2 CO



Dimensions

SRC-I 2 CO N



Dimensions in mm

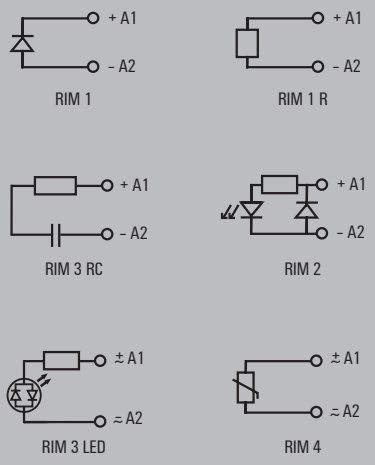
LED and protective modules for the SRC-I plug-in frame

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

Ordering data

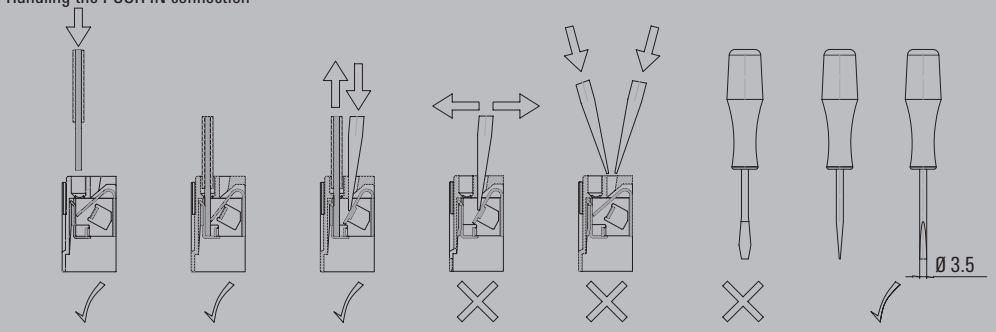
Description
Free Wheel diode 1N4007
Resistor 100 kΩ 1 Watt
RC-element 6 ... 60 V AC; 470 Ω / 220 nF
RC-element 110 ... 230 V AC; 4.7 Ω / 10 nF
Varistor protection 24 V; S07K30
Varistor protection 110 V; S07K130
Varistor protection 230 V; S07K275
LED
LED 6 ... 24 V DC with free wheel diode
LED 24 ...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



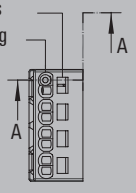
Warnings and notes on usage

Handling the PUSH IN connection

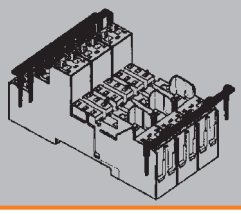


Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening

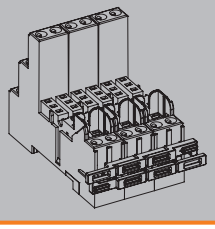


Cross-connector mounting for PUSH IN base



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

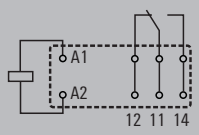
1 CO AC/DC coil

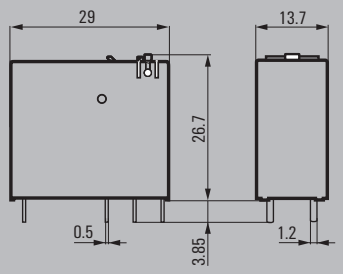
- 4000 VA switching capacity
- Stable plug-in connections
- Optional test button with latching function and inspection window
- Optional status indicator (AC red/ DC green)
- Optional protective suppressor circuit
- Identification of coils (AC red / DC blue)



Circuit diagram
View on solder pins
dimensions in mm

1 C/O changeover contacts





Technical data

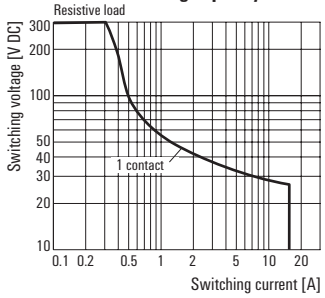
Output	
Rated switching voltage	240 V AC
Max. switching voltage, AC	400 V
Continuous current	16 A
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10^6 switch. ops, DC coil 10 x 10^6 switch. cycles
Sparkover time / Drop-out time	8 ms / 6 ms
Rated data	
Ambient temperature (operational)	-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

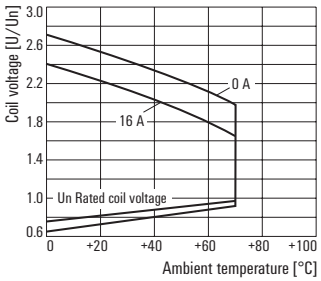
Applications

DC load breaking capacity

Resistive load

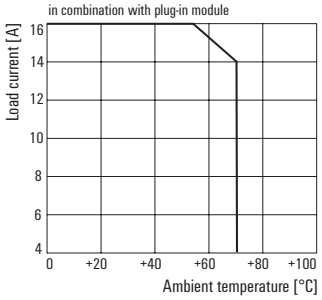


Operating voltage range DC



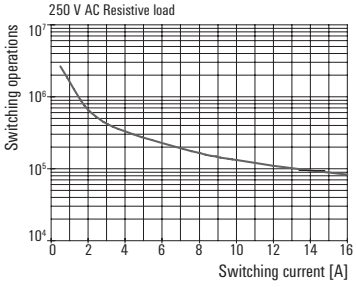
Derating curve

in combination with plug-in module

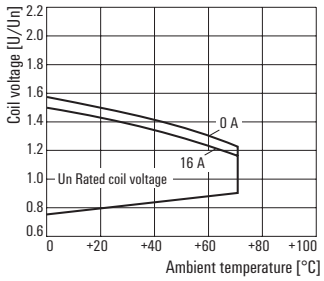


Electrical endurance

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

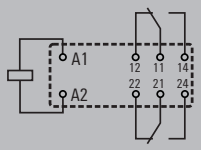
2 CO AC/DC coil

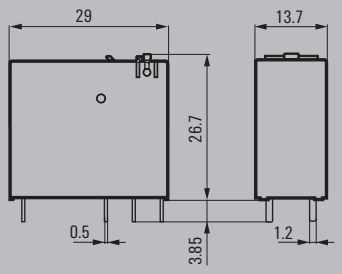
- 2000 VA switching capacity
- Stable plug-in connections
- Optional test button with latching function and inspection window
- Optional status indicator (AC red / DC green)
- Optional protective suppressor circuit
- Identification of coils (AC red / DC blue)



Circuit diagram
View on solder pins
dimensions in mm

2 C/O changeover contacts





Technical data

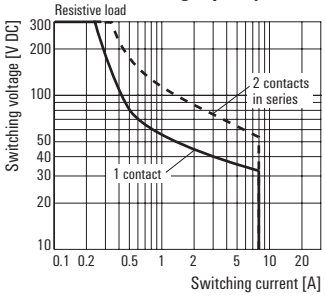
Output	
Rated switching voltage	240 V AC
Max. switching voltage, AC	400 V
Continuous current	8 A
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10^6 switch. ops, DC coil 10 x 10^6 switch. cycles
Sparkover time / Drop-out time	10 ms / 4 ms
Rated data	
Ambient temperature (operational)	-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

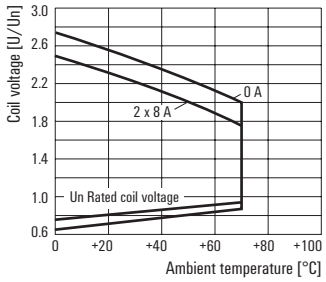
Applications

DC load breaking capacity

Resistive load

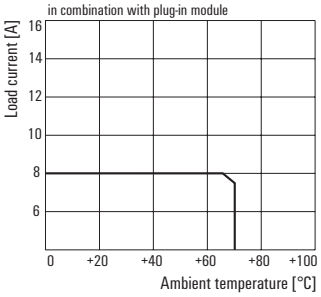


Operating voltage range DC



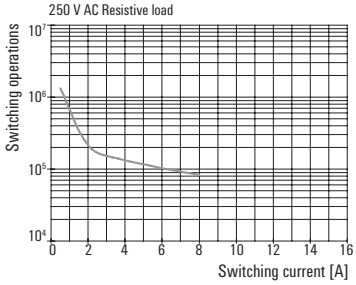
Derating curve

in combination with plug-in module

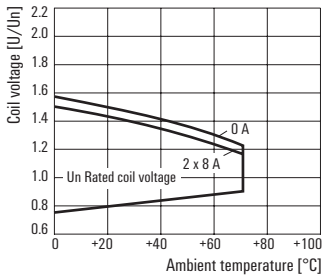


Electrical endurance

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

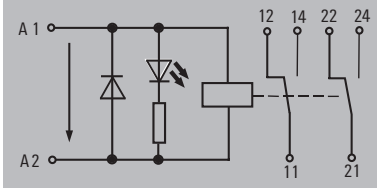
Modular system comprising:
- Relay socket for rail mounting
- LED display unit (AC red / DC green)
- Retaining clip
- Pluggable relays with coil identification (AC red / DC blue)
- Markers

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

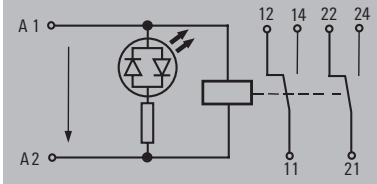




DC-Version



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			

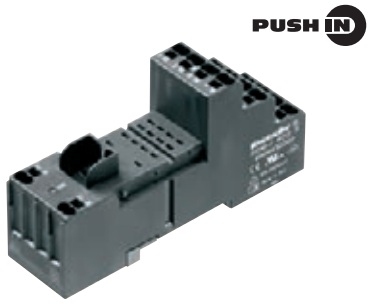
Ordering data Relay with socket					
Screw connection	Type	RCMKIT-I 24VDC 2CO LD	RCMKIT-I 24VAC 2CO LD	RCMKIT-I 115VAC 2CO LD	RCMKIT-I 230VAC 2CO LD
	Order No.	**8920940000**	**8920950000**	**8920960000**	**8920970000**
PUSH IN connection	Type	RCMKITP-I 24VDC 2CO LD	RCMKITP-I 24VAC 2CO LD	RCMKITP-I 115VAC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

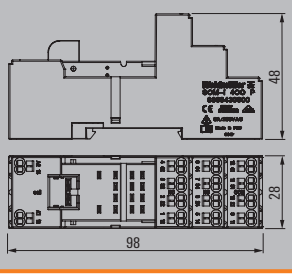
Accessories

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**

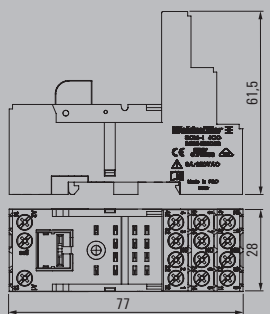
Dimensions

SCM-I 2CO P



Dimensions

SCM-I 2CO



Dimensions in mm

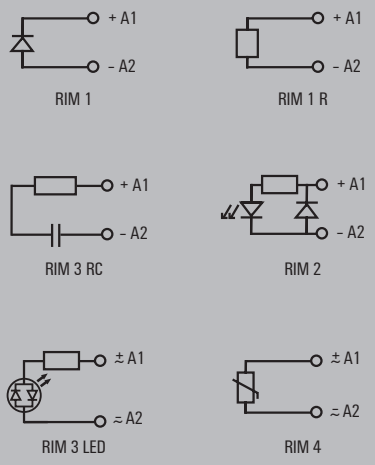
LED and protective modules for the SCM-I plug-in frame

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

Ordering data

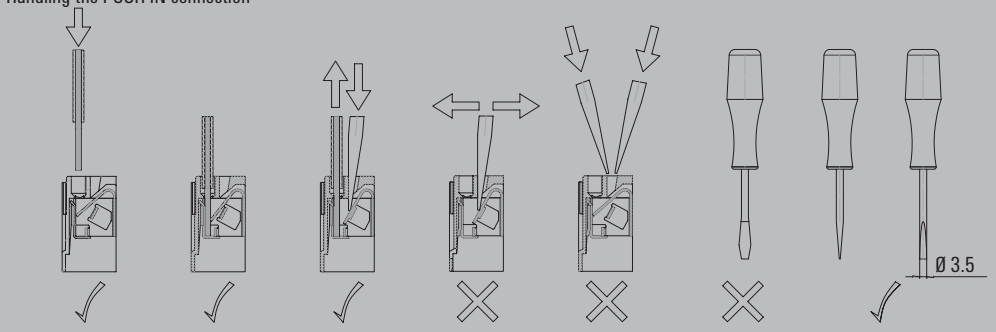
Description
Free Wheel diode 1N4007
Resistor 100 kΩ 1 Watt
RC element 6 ... 60 V AC; 470 Ω / 220 nF
RC element 110 ... 230 V AC; 4.7 Ω / 10 nF
Varistor protection 24 V; S07K30
Varistor protection 110 V; S07K130
Varistor protection 230 V; S07K275
LED
LED 6 ... 24 V DC with free wheel diode
LED 24 ...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



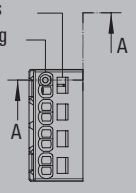
Warnings and notes on usage

Handling the PUSH IN connection

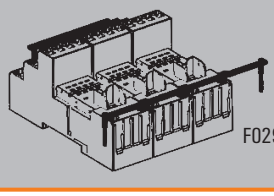


Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening



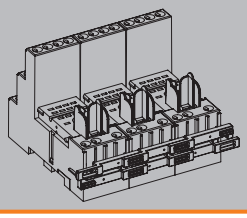
Cross-connector mounting for PUSH IN base



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

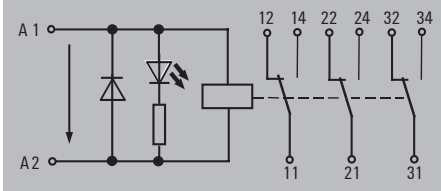
3 CO AC/DC coil

Modular system comprising:

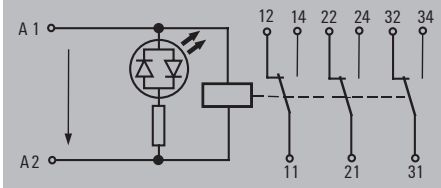
- Relay socket for rail mounting
- LED display unit (AC red / DC green)
- Retaining clip
- Pluggable relay modules
- Identification of coils (AC red / DC blue)
- Markers



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			

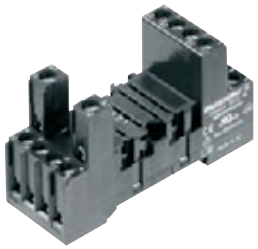
Ordering data **Relay with socket**					
Screw connection	Type	RCMKIT-I 24VDC 3CO LD	RCMKIT-I 24VAC 3CO LD	RCMKIT-I 115VAC 3CO LD	RCMKIT-I 230VAC 3CO LD
	Order No.	**8920980000**	**8920990000**	**8921010000**	**8921020000**
	Type				
	Order No.				

Ordering data **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

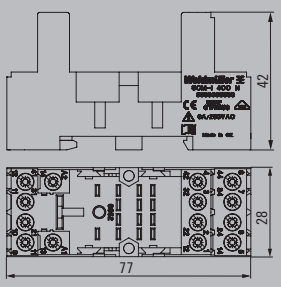
Description	Type	Qty.	Order No.
Plug-in module, snaps onto TS35 DIN mounting rail, 3-pole	SCM-I 3CO N		**8869410000**

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

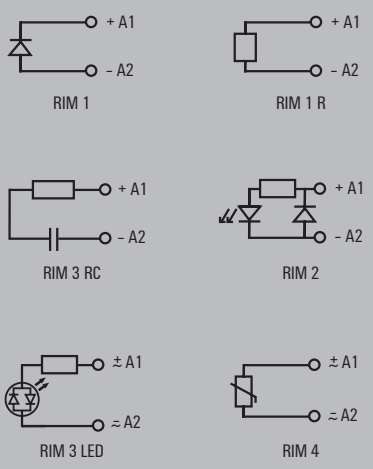
LED and protective modules for the SCM-I plug-in frame

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

Ordering data

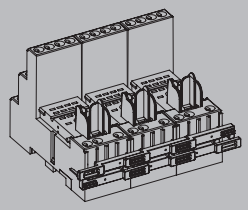
Description
Free Wheel diode 1N4007
Resistor 100 kΩ 1 Watt
RC element 6 ... 60 V AC; 470 Ω / 220 nF
RC element 110 ... 230 V AC; 4.7 Ω / 10 nF
Varistor protection 24 V; S07K30
Varistor protection 110 V; S07K130
Varistor protection 230 V; S07K275
LED
LED 6 ... 24 V DC with free wheel diode
LED 24 ...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



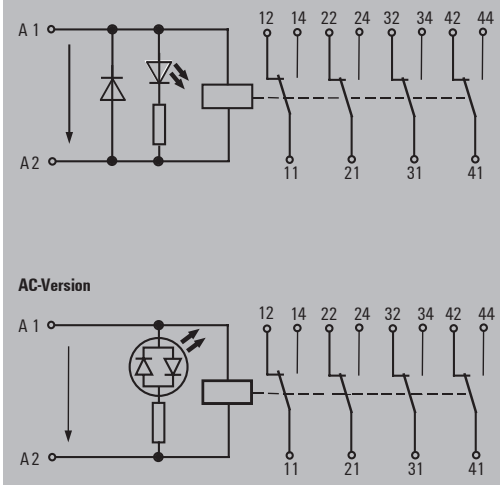
RCM KIT
4 CO AC/DC coil

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			

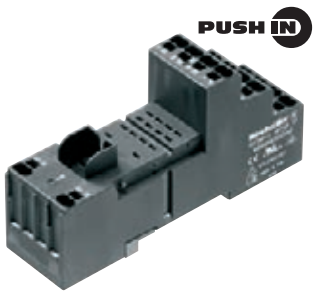
Ordering data

	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



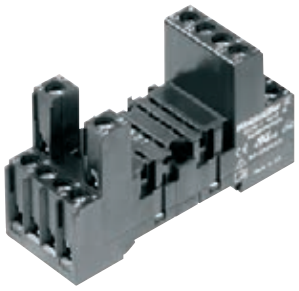
Plug-in module with screw connection

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

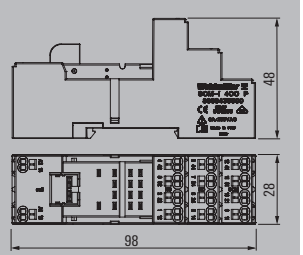
Description	Type	Qty.	Order No.
Plastic retaining clip	SCM-I CLIP P	10	**8869440000**
Plastic retaining clip			
Metal retaining clip	SCM-I CLIP M	10	**8869450000**
Marker	SCM-I MARK	10	**8869460000**
Marker, Multicard	ESG 9/11 K MC neutral	200	**1857440000**
 Cross-connector for PUSH IN base, 2-pole,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

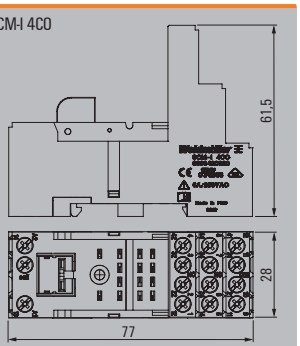
Dimensions

SCM-I 4CO P



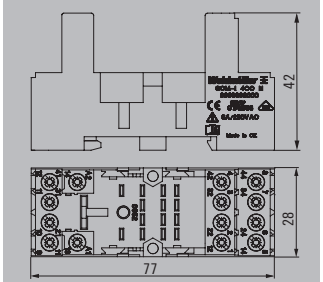
Dimensions

SCM-I 4CO



Dimensions

SCM-I 4CO N



Dimensions in mm

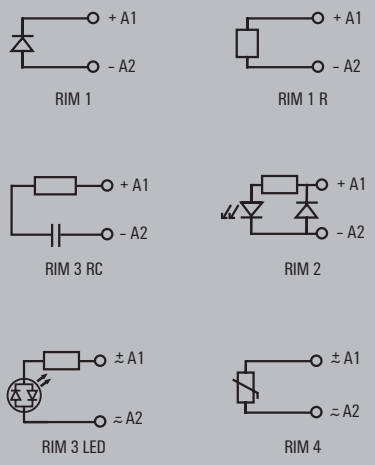
LED and protective modules for the SCM-I plug-in frame

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

Ordering data

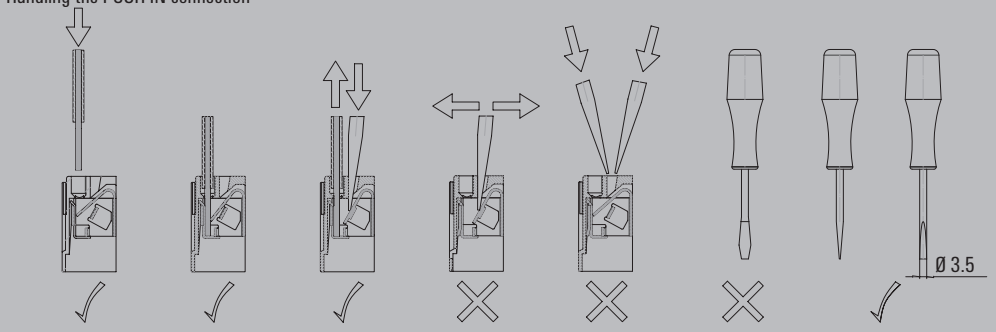
Description
Free Wheel diode 1N4007
Resistor 100 kΩ 1 Watt
RC element 6 ... 60 V AC; 470 Ω / 220 nF
RC element 110 ... 230 V AC; 4.7 Ω / 10 nF
Varistor protection 24 V; S07K30
Varistor protection 110 V; S07K130
Varistor protection 230 V; S07K275
LED
LED 6 ... 24 V DC with free wheel diode
LED 24 ...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



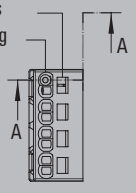
Warnings and notes on usage

Handling the PUSH IN connection

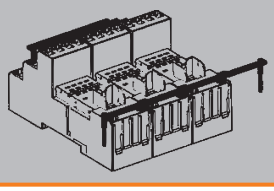


Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening

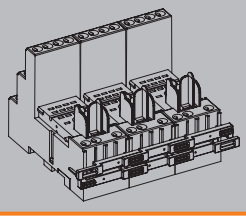


Cross-connector mounting for PUSH IN base



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

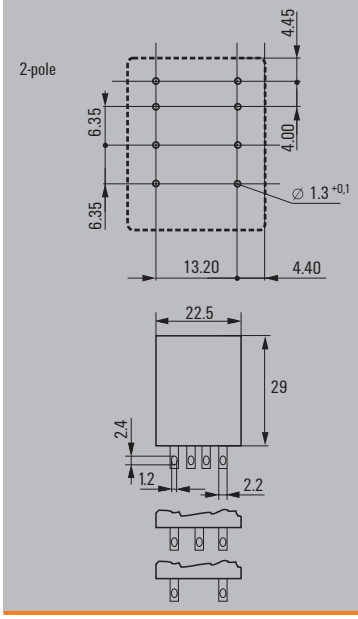


RCM relay
2 CO
AC/DC coil

- 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



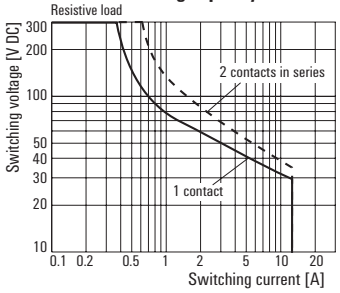
Technical data

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	

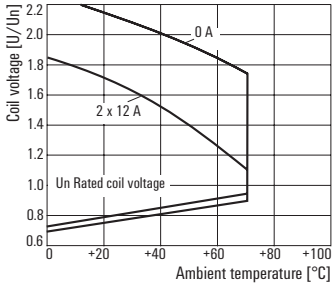
Dimensions		**Plug-in connection**
Length x width x height	mm	28 / 22.5 / 29
Note		

Applications

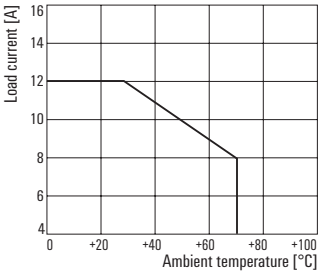
DC load breaking capacity
Resistive load



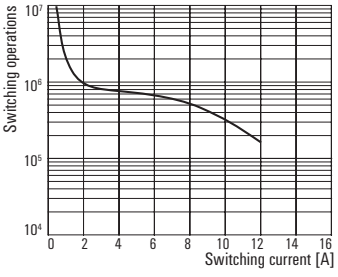
Operating voltage range DC



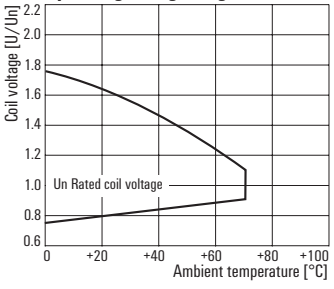
Derating curve
in combination with plug-in module



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.				

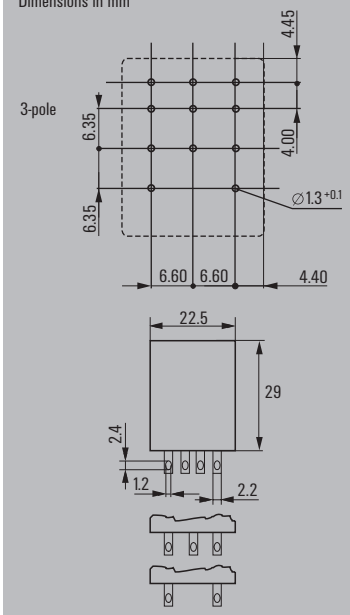
Note

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



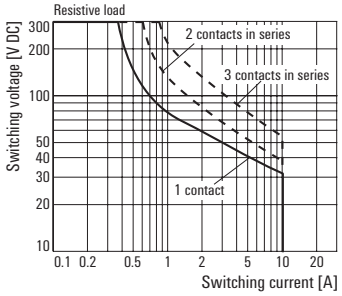
Technical data

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	

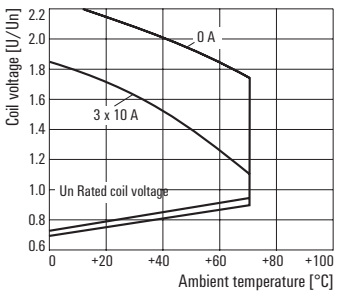
Dimensions		**Plug-in connection**
Length x width x height	mm	28 / 22.5 / 29
Note		

Applications

DC load breaking capacity

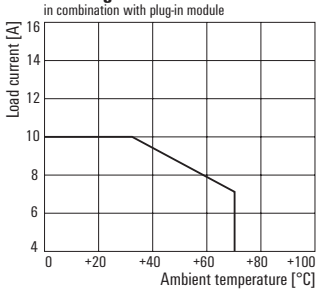


Operating voltage range DC



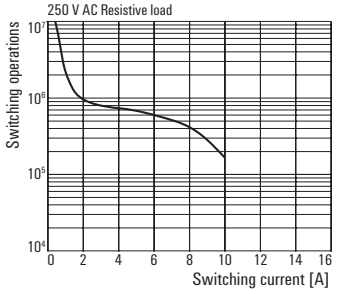
Derating curve

in combination with plug-in module

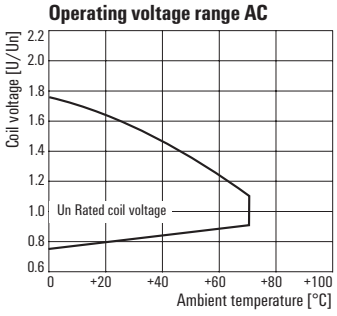


Electrical endurance

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.				

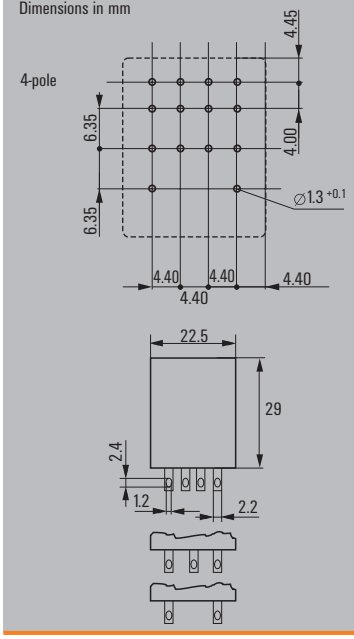
Note

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



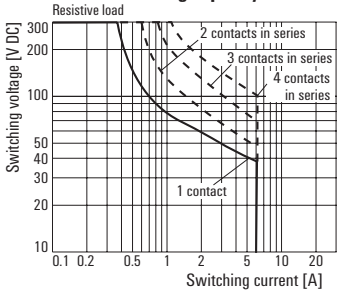
Technical data

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	

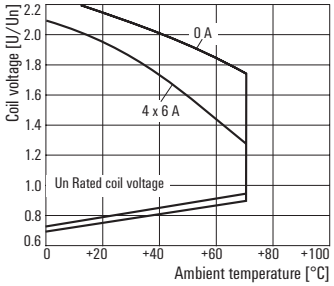
Dimensions		Plug-in connection
Length x width x height	mm	28 / 22.5 / 29
Note		

Applications

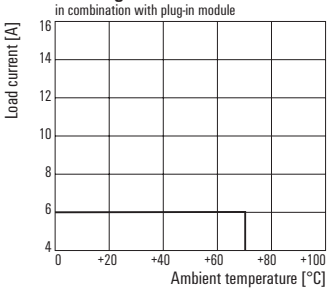
DC load breaking capacity
Resistive load



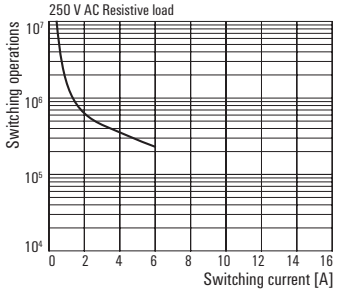
Operating voltage range DC



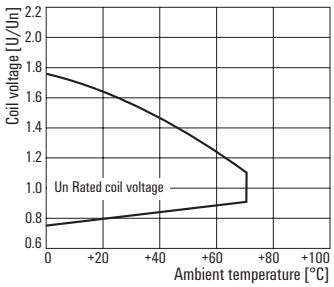
Derating curve
in combination with plug-in module



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.				

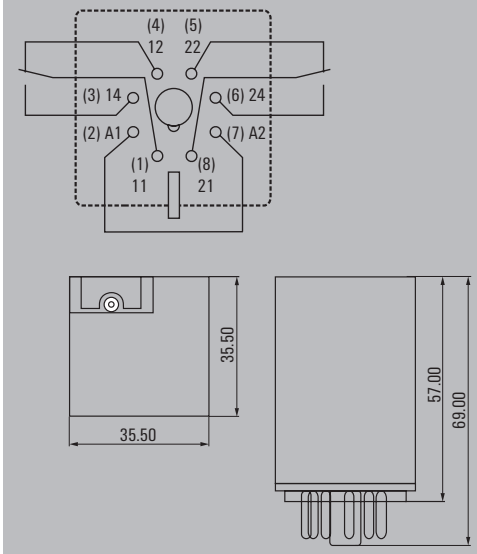
Note

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



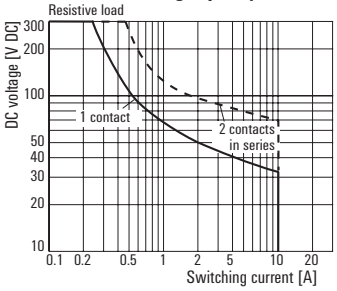
Technical data

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	

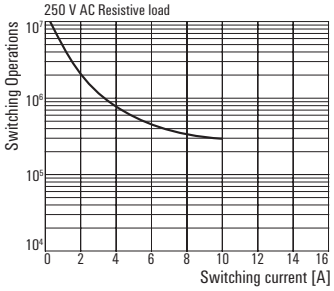
Dimensions		**Plug-in connection**
Length x width x height	mm	35.5 / 35.5 / 57
Note		

Applications

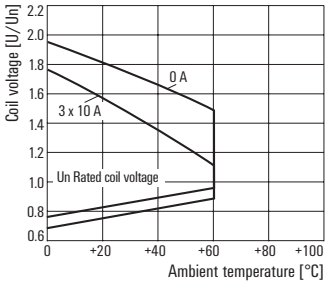
DC load breaking capacity



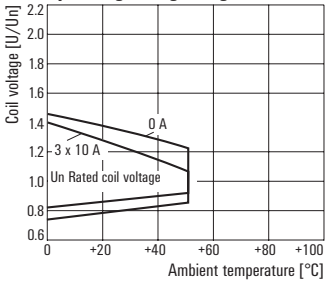
Electrical endurance



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.		

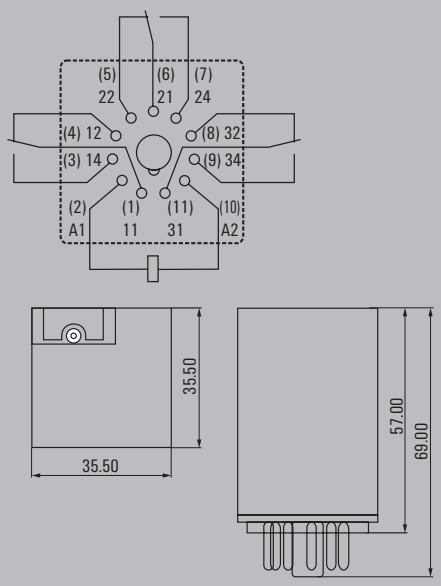
Note		

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



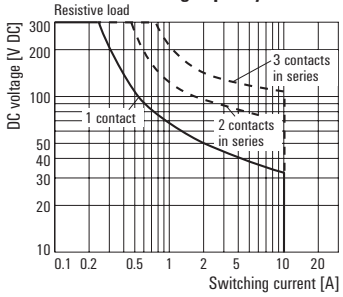
Technical data

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	

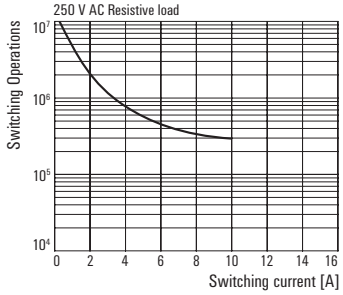
Dimensions	**Plug-in connection**
Length x width x height	35.5 / 35.5 / 57
Note	

Applications

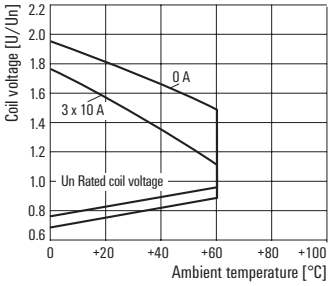
DC load breaking capacity
Resistive load



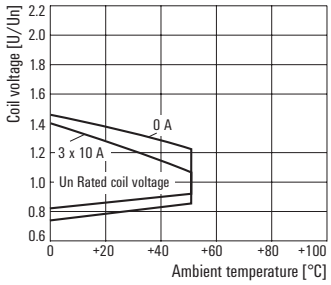
Electrical endurance
250 V AC Resistive load



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

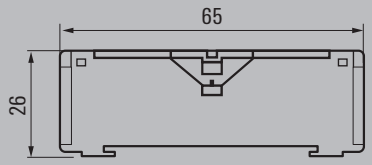
Ordering data

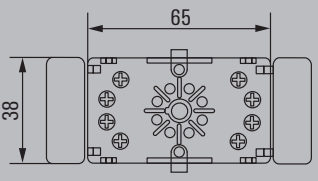
Description	Type	Qty.	Order No.
Plug-in module with screw connections, 8-pole	SRD-I 2CO	10	**8869360000**
Plug-in module with screw connections, 11-pole	SRD-I 3CO	10	**8869350000**

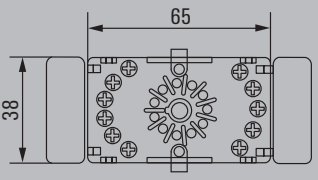
Accessories

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







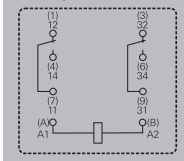
RPW relay
2 CO AC/DC coil
3 CO AC/DC coil

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

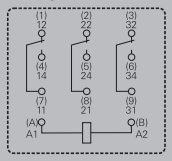


Circuit diagram
View of connections

2 changeover contacts

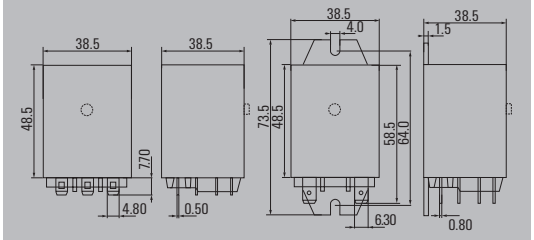


3 changeover contacts



Cap without lug, plug-in connections

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



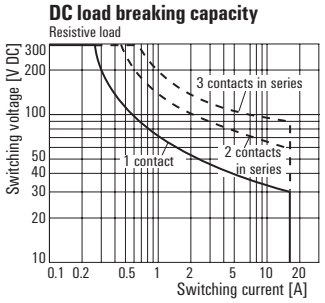
Technical data

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	

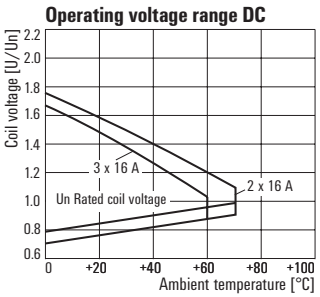
Dimensions		**Plug-in connection**
Length x width x height	mm	38.5 / 38.5 / 48.5
Note		

Applications

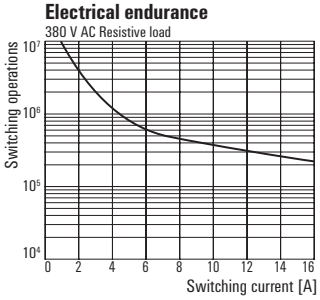
DC load breaking capacity



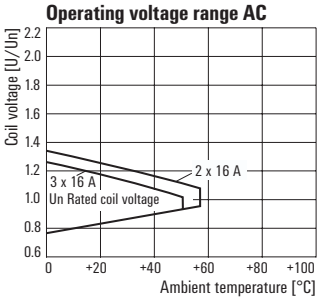
Operating voltage range DC



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				

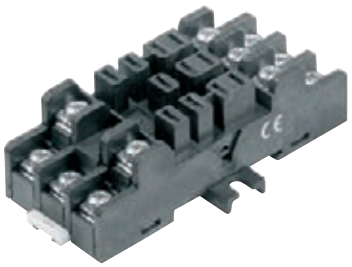
Ordering data

	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 %

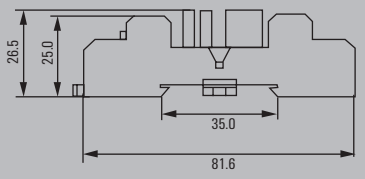
Ordering data Relay				
w.o. test button	Type	RPW702024	RPW702524	RPW702730
AgCdO	Order No.	**8690760000**	**8690740000**	**8690750000**
	Type			
	Order No.			
	Type			
	Order No.			
	Type			
	Order No.			
Note				

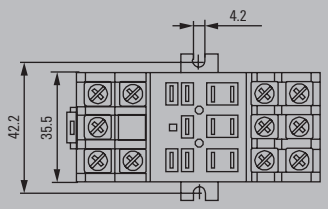
Accessories for RPW

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**

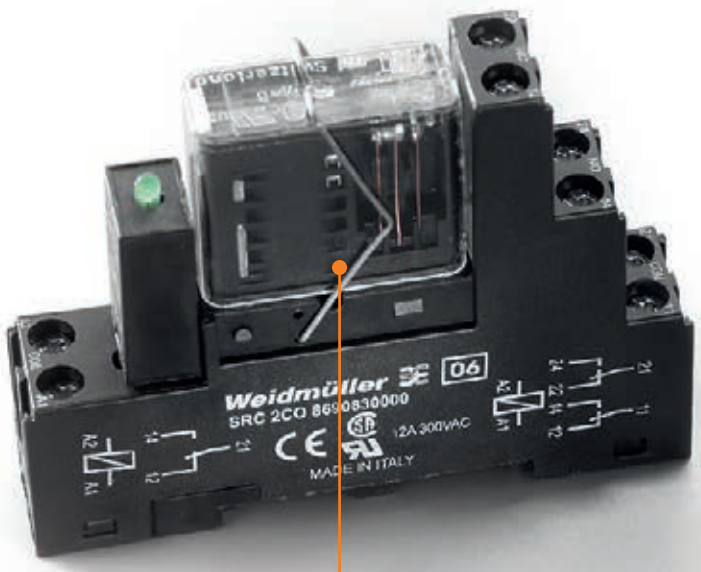
Accessories

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

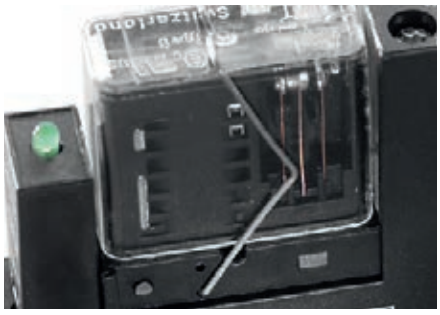
Signal monitoring in safety-critical circuits

Coupling relays with positively driven contacts

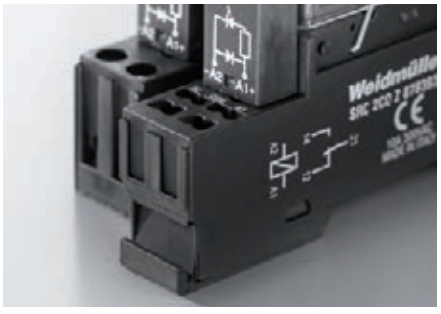
Weidmüller has expanded the RIDERSERIES to include a relay variant with force-guided contacts. Relays with force-guided contacts have a 99 % diagnostics coverage and an excellent reputation for use in safety systems. The contacts interlock mechanically with each other in order to ensure a synchronous 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.



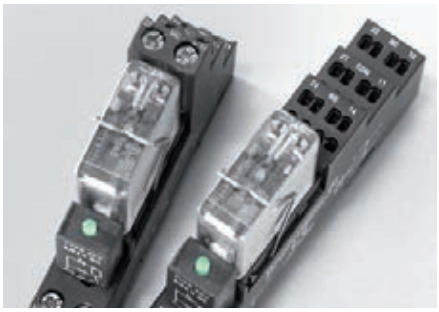
Resistant to vibration
A metal clip ensures that the relay module remains secure even under vibration / mechanical shock conditions.



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

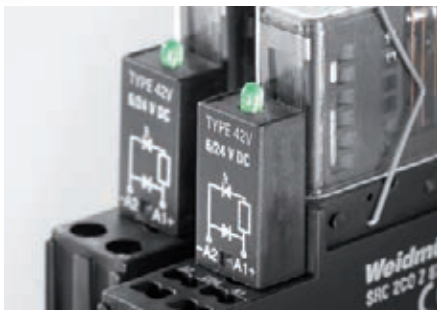


Convenient
Relay modules can be replaced quickly in the event of a fault without removing the connecting cable.



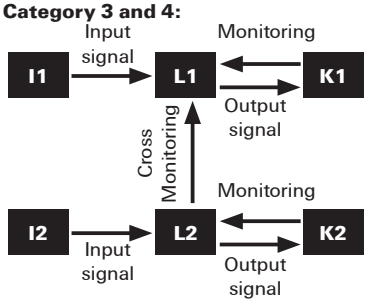


On site diagnostics
An easy to view LED display module with an integrated free wheeling diode is used to protect the series connected electronics.



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).

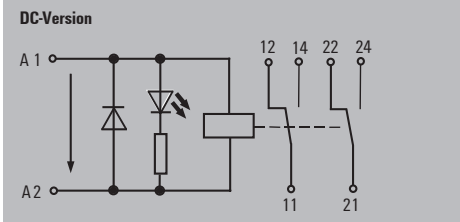
Category 3 and 4:

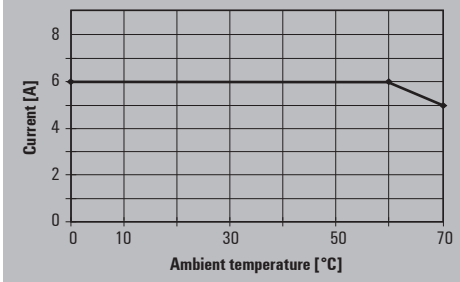


RCI KIT with forcibly guided contacts
2 CO
DC coil

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 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

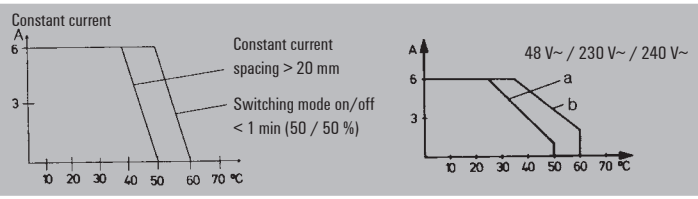


Technical data

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



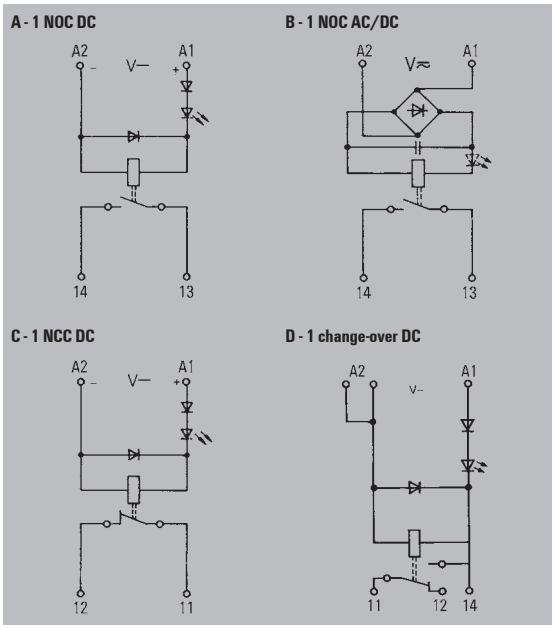


Making current	8 A				
Making power under ohmic load	2000 VA / 100 W				
Min. switching power/switching current	250 mW / 10 mA				
Duration of bounce	≤ 3 ms				
Typical switching times					
– Pick-up delay	≤ 8 ms	≤ 8 ms	≤ 8 ms	≤ 9 ms	≤ 10 ms
– Drop-out delay	≤ 7 ms	≤ 7 ms	≤ 16 ms	≤ 8 ms	≤ 9 ms
Max. switching 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–.

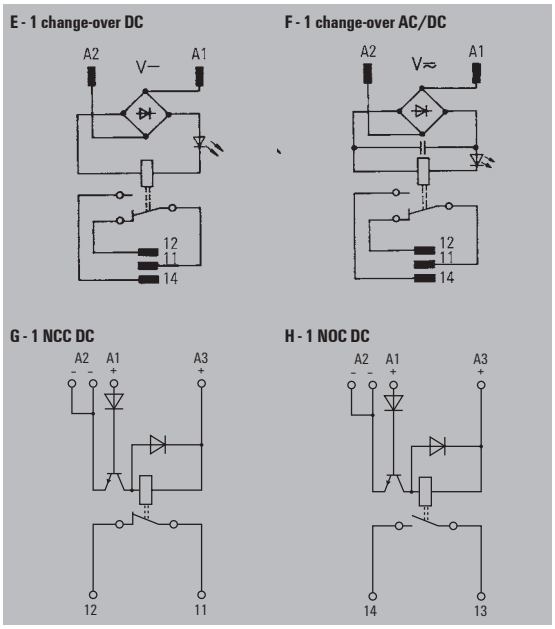
RS 30

Screw connection



RS 30

Isolating plug with screw connection



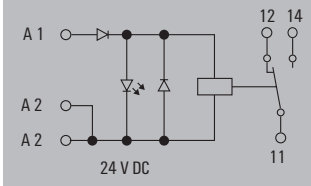
Ordering data

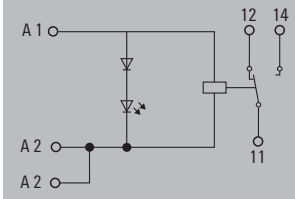
Wiring diagram		A	B	C	D	E	F	G	H
Input voltage	Function indicator	NOC	NOC	NCC	change-over	change-over	change-over	NCC	NOC
5 V–, TTL	without							1167660000	1167760000
24 V–	without	1101661001		1100961001		1100260000			
	LED green	1101611001		1100911001	1181511001	1100210000			
	LED red	1101621001		1100921001	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		

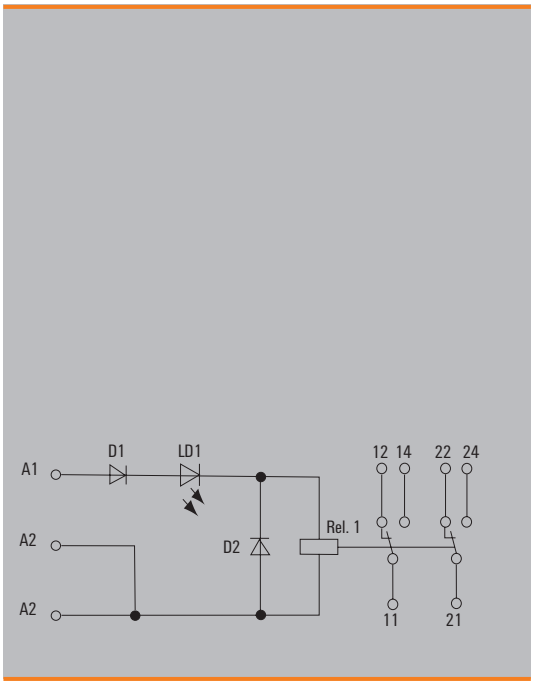
Ordering data				
Screw connection	Type	RS 31 24VDC LD LP 1U	RS 31 115VAC LD LP 1U	RS 31 230VAC LD LP 1U
	Order No.	**1128361001**	**1150461001**	**1128461001**
	Type			
	Order No.			

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.	

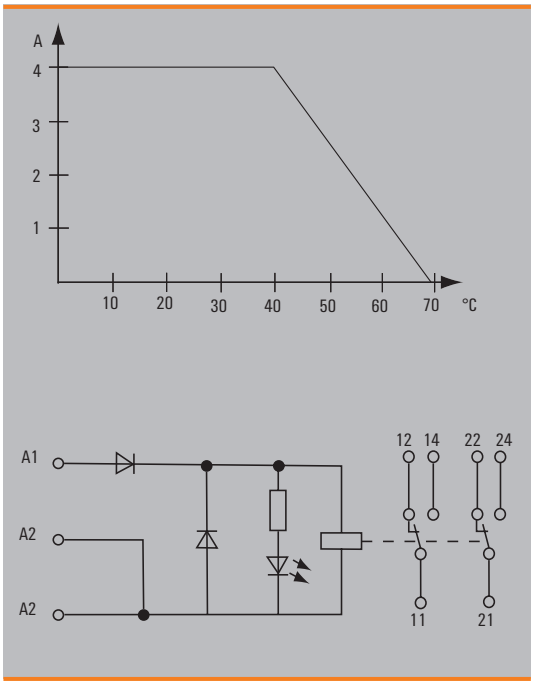
Note	

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

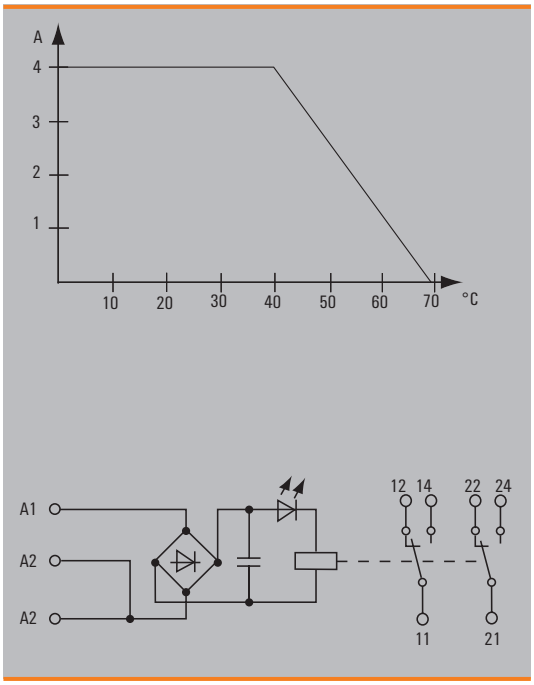
Input	24 V DC 2CO
Rated control voltage	24 V DC ±10 %
Rated current AC	
Rated current DC	25 mA
Power rating	0.6 W
AC Response/dropout Volt	
DC Response/dropout Volt	21.5 V
AC pickup/dropout current	
DC pickup/dropout current	-/5 mA

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

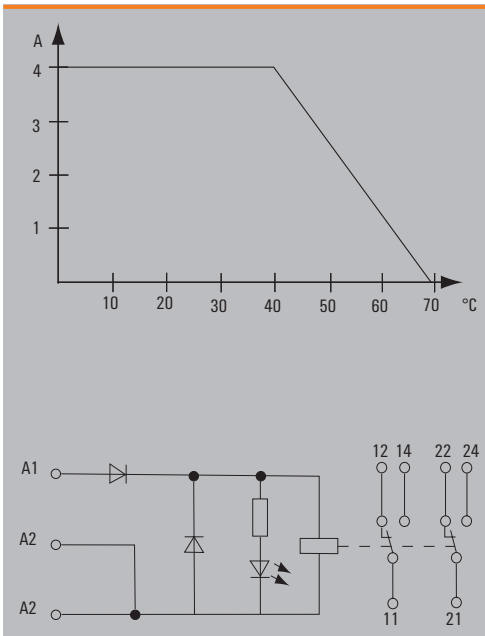
Ordering data				
Screw connection	Type	RS 32 24VUC LD LP 2U	RS 32 115VUC LD LP 2U	RS 32 230VUC LD LP 2U
	Order No.	**9406221001**	**9406621001**	**9406721001**
	Type			
	Order No.			

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.		

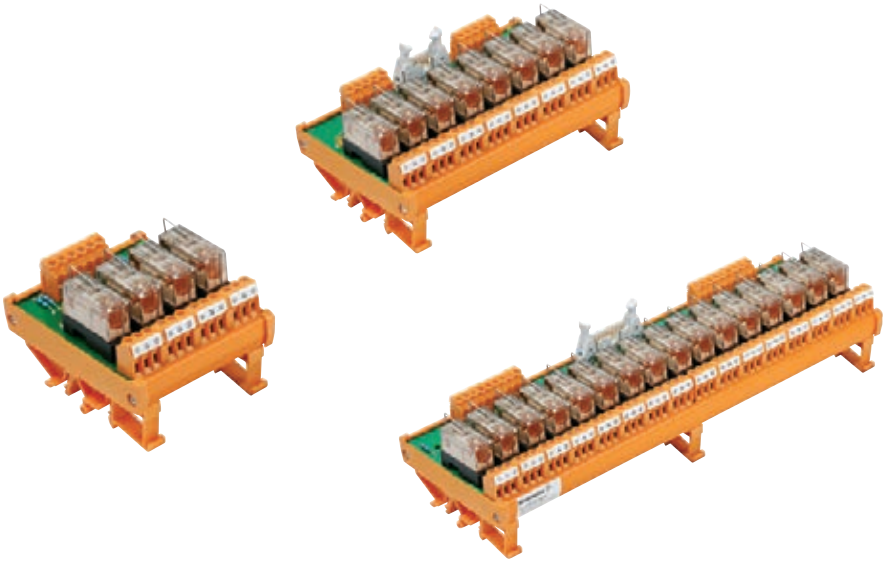
Note		

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

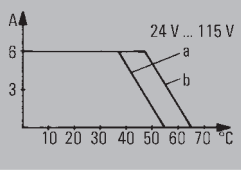


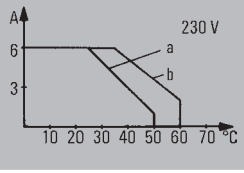
Technical data

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



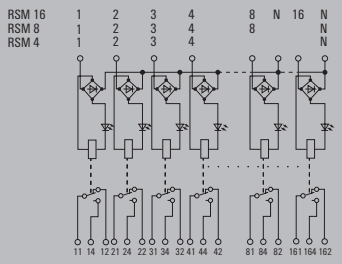




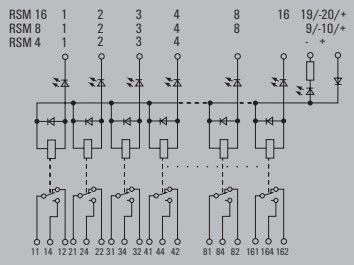
Typical making times					
	Pick-up delay (AC/DC)	≤ 8 ms	≤ 10 ms / 10 ms	≤ 8 ms / 10 ms	≤ 10 ms
	Drop-out delay (AC/DC)	≤ 7 ms	≤ 15 ms / 20 ms	≤ 5 ms / 8 ms	≤ 10 ms

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

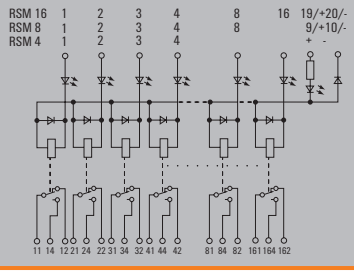
DC/AC/AC voltage



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**

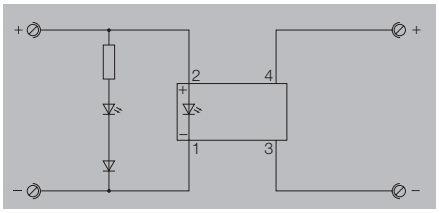
Note: Can also be ordered with clamp for conversion to new RSM relay module.

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

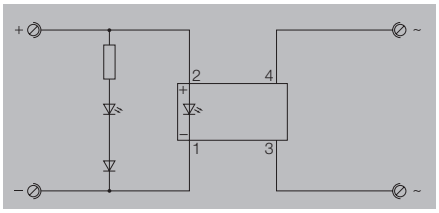
RSO 30-DV/SC





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

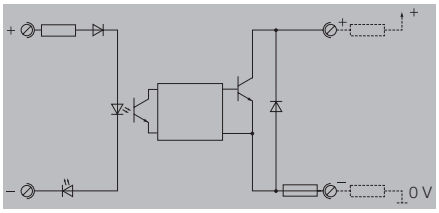
Note

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

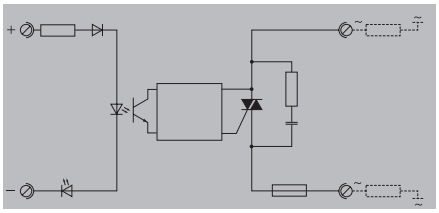
RSO 31 -ODC/F





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

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