

Industrial relay modules

Industrial relay modules	Industrial relay modules - Overview	B.2
	D-SERIES - Overview	B.4
	D-SERIES - relay modules	B.6
	RIDERSERIES - Overview	B.58
	RIDERSERIES - relay modules	B.60
	RIDERSERIES FG - Overview	B.94
	RIDERSERIES FG - relay module with forcibly guided contacts	B.96

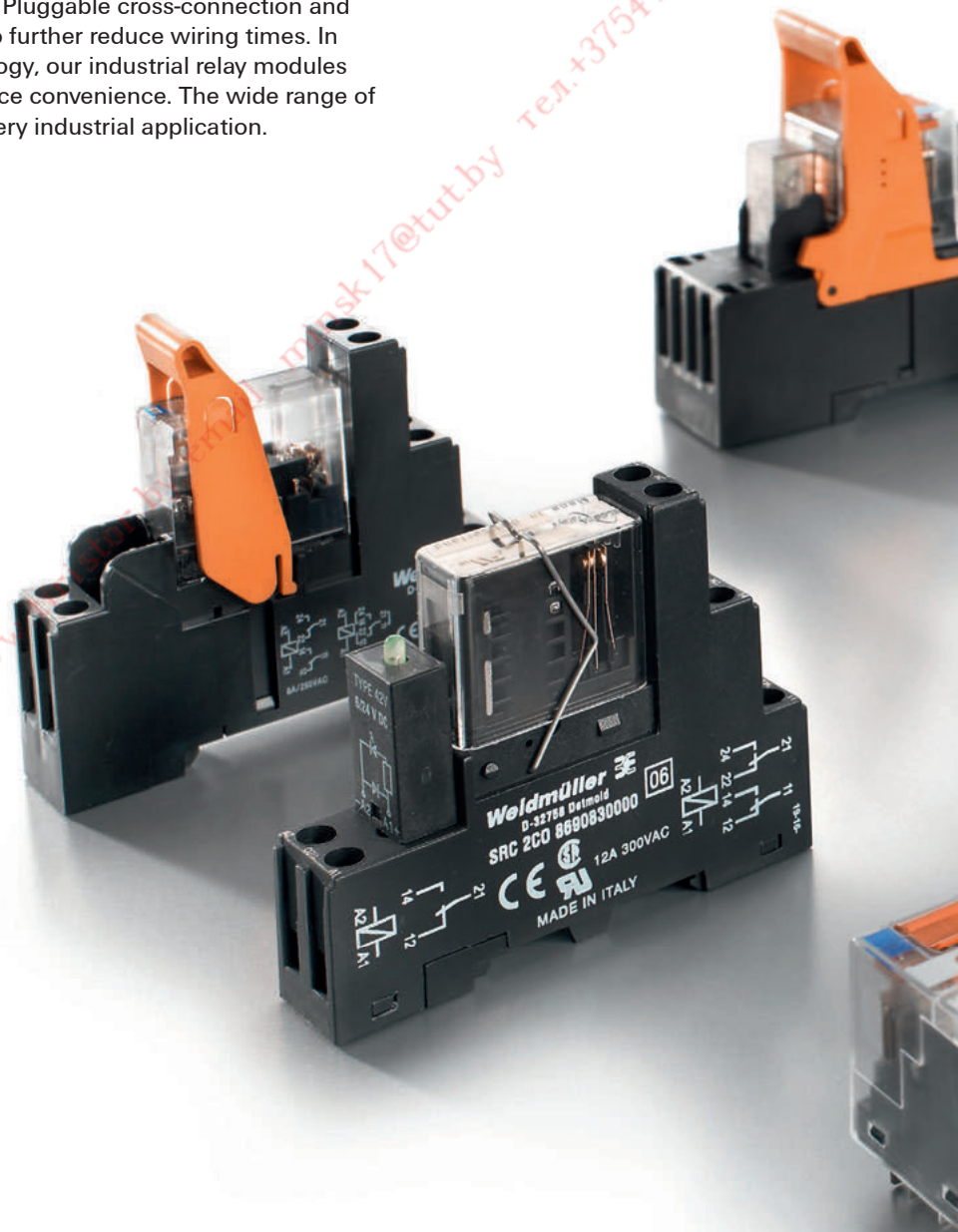
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Industrial relay module with the proven connection technology

Easy handling and safe connections

B

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, our industrial relay modules provide users with excellent reliability and service convenience. The wide range of relay modules provides the right solution for every industrial application.





A long service life is a key factor in a wide range of industrial applications

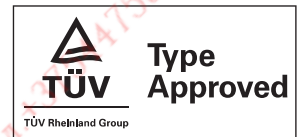
D-SERIES relay modules deliver impressively long-lasting high performance

B

In many industrial applications, voltages between 110 and 220 V are used to control actuators. Load currents greater than 100 mA cause these high voltages to create wear-intensive light arcs on the relay contacts.

We have specially designed our D-SERIES relay modules for all-purpose use in a wide range of industrial applications. They are much more reliable than conventional solutions and so help to minimise maintenance and replacement costs.

The formation of light arcs is effectively avoided with D-SERIES products thanks to contact series connection, built-in blow magnets and low-wear contacts – for a noticeably longer service life.



Reliable at high currents and voltages

Requirements increase where current consumption is high. D-SERIES industrial relay modules are used where high voltages and load currents impact on the actuators. For example, when motors, solenoid valves or brakes are actuated in machine construction.

For convenient servicing

Optional LED status indicator and test button.

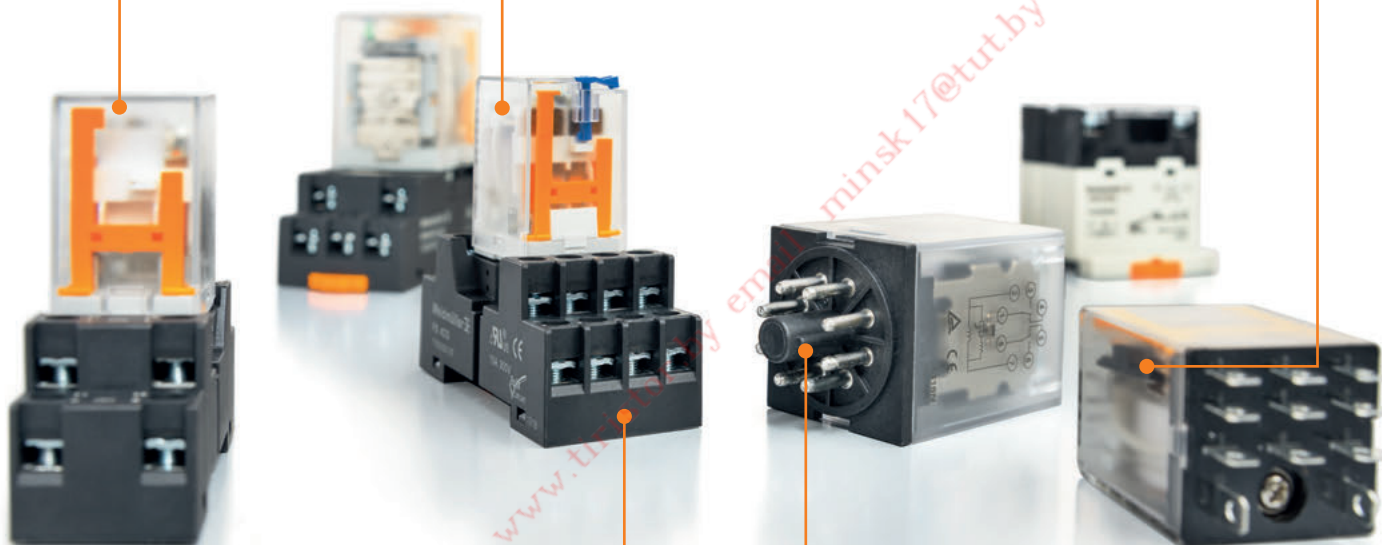


With a long service life

The smart contact series connection and a built-in blow magnet reduce the contact erosion at loads of up to 220 V DC/10 A.

Contacts for every application

Thanks to various contact materials (AgNi, AgSnO, AgCdO), the products of the D-SERIES are equipped for small, medium and high loads.



With extensive accessories

Flexible in use thanks to relay bases, markers and pluggable circuits (e.g. LED or free-wheel diode).



For every control voltage

The wide range of coil voltages from 5 V DC – 380 V AC enable them to be used on any control voltage imaginable.



D-SERIES – relay modules

DRI KIT

1 CO contact, AC/DC coil

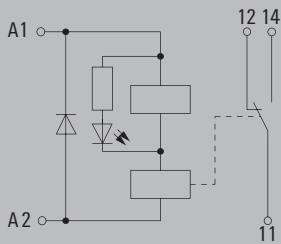
- Assembled kit comprising relay, base and retaining clip, incl. Label
- 100% function-tested
- 100% monitoring of the dielectric strength input - output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue) and mechanical switch position indicator
- Bright status LED (AC coil: red / DC coil: green)



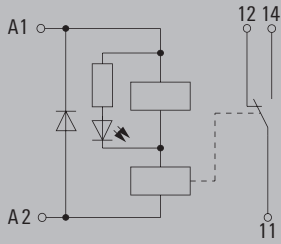
B

Circuit diagram

DC coil LED+diode



AC coil LED:

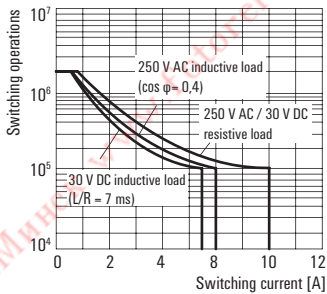


Technical data

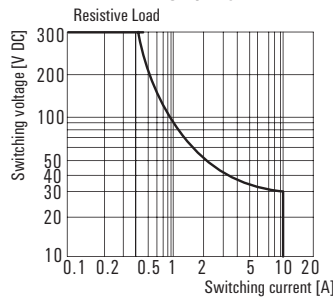
Output	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...55 °C
Storage temperature	-40 °C...85 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	4.8 kV (1.2/50 µs)
Dielectric strength input - output	4 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 3 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.25 / 4
Depth x width x height	see dimensioned drawing
Screw connection	
see dimensioned drawing	
Note	

Applications

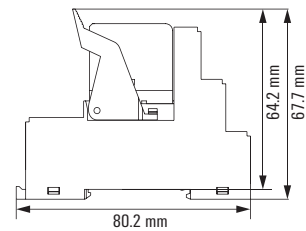
Electrical endurance



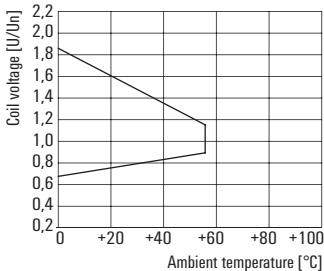
DC load braking capacity



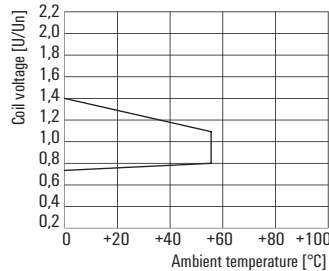
Dimensioned drawing without test button



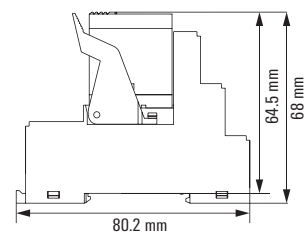
Operating voltage range [DC]



Operating voltage range [AC]



Dimensioned drawing with test button



DRI KIT
1 CO contact, AC/DC coil

Type code	DRIKIT			
Type	DRIKIT			
Coil voltage	12VDC	24VAC		
	24VDC	115VAC		
	48VDC	230VAC		
	110VDC			
Type of contact	1CO	1 Change over / SPDT		
	2CO	2 Change over / DPDT		
Status LED / protective circuit	LD	DC coil: LED green + free wheeling diode		
		AC coil: LED red		
Test button	/PB	DC coil: Test button blue		
		AC coil: Test button red		
		Blank: No test button		

Ordering data

	12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
Input				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating	530 mW	530 mW	530 mW	530 mW
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC
Status indicator	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheel diode	Free-wheel diode	Free-wheel diode	Free-wheel diode
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data					
with test button	Type	DRIKIT 12VDC 1CO LD/PB	DRIKIT 24VDC 1CO LD/PB	DRIKIT 48VDC 1CO LD/PB	DRIKIT 110VDC 1CO LD/PB
	Order No.	2476740000	2476750000	2476760000	2476770000
without test button	Type	DRIKIT 12VDC 1CO LD	DRIKIT 24VDC 1CO LD	DRIKIT 48VDC 1CO LD	DRIKIT 110VDC 1CO LD
	Order No.	2476340000	2476680000	2476690000	2476700000
	Type				
	Order No.				
	Type				
	Order No.				

Note				

Ordering data

	24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	50 mA /	9.3 mA /	4,9 mA /
Power rating	1.2 VA	1.1 VA	1.1 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Status indicator	red LED	red LED	red LED
Protective circuit			
Output			
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data				
with test button	Type	DRIKIT 24VAC 1CO LD/PB	DRIKIT 115VAC 1CO LD/PB	DRIKIT 230VAC 1CO LD/PB
	Order No.	2476780000	2476790000	2476800000
without test button	Type	DRIKIT 24VAC 1CO LD	DRIKIT 115VAC 1CO LD	DRIKIT 230VAC 1CO LD
	Order No.	2476710000	2476720000	2476730000
	Type			
	Order No.			
	Type			
	Order No.			

Note			

D-SERIES – relay modules

DRI KIT

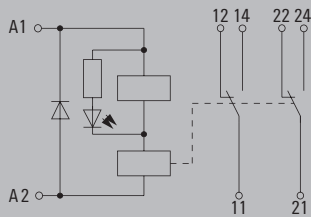
2 CO contact, AC/DC coil

- Assembled kit comprising relay, base and retaining clip, incl. Label
- 100% function-tested
- 100% monitoring of the dielectric strength input - output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue) and mechanical switch position indicator
- Bright status LED (AC coil: red / DC coil: green)

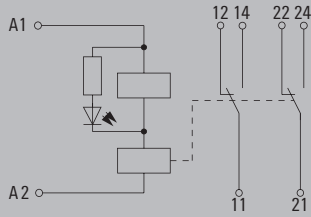


Circuit diagram

DC coil LED+diode



AC coil LED:

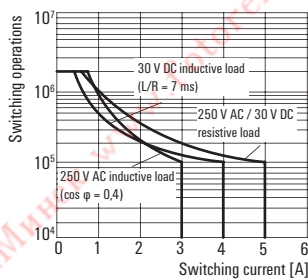


Technical data

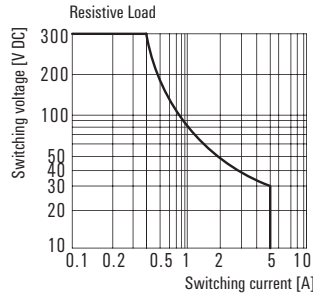
Output	
Rated switching voltage / Continuous current	250 V AC / 5 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	150 W @ 24 V / 1250 VA
Contact material	AgNi
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...55 °C
Storage temperature	-40 °C...85 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	4.8 kV (1.2/50 µs)
Dielectric strength input - output	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	1.5 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 3 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.25 / 4
Depth x width x height	see dimensioned drawing
Screw connection	
see dimensioned drawing	
Note	

Applications

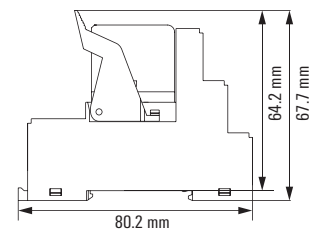
Electrical endurance



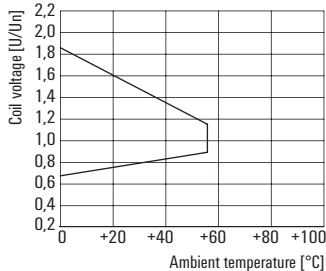
DC load braking capacity



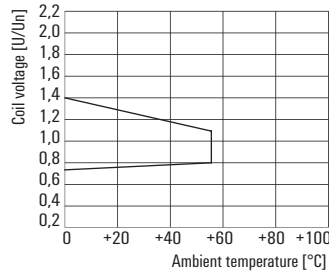
Dimensioned drawing without test button



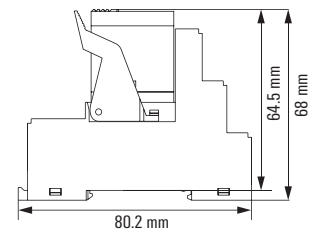
Operating voltage range [DC]



Operating voltage range [AC]



Dimensioned drawing with test button



DRI KIT
2 CO contact, AC/DC coil

Type code	DRIKIT			
Type	DRIKIT			
Coil voltage	12VDC	24VAC		
	24VDC	115VAC		
	48VDC	230VAC		
	110VDC			
Type of contact	1CO	1 Change over / SPDT		
	2CO	2 Change over / DPDT		
Status LED / protective circuit	LD	DC coil: LED green + free wheeling diode		
		AC coil: LED red		
Test button	/PB	DC coil: Test button blue		
		AC coil: Test button red		
		Blank: No test button		

Ordering data

	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Input				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating	530 mW	530 mW	530 mW	530 mW
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC
Status indicator	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheel diode	Free-wheel diode	Free-wheel diode	Free-wheel diode
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data					
with test button	Type	DRIKIT 12VDC 2CO LD/PB	DRIKIT 24VDC 2CO LD/PB	DRIKIT 48VDC 2CO LD/PB	DRIKIT 110VDC 2CO LD/PB
	Order No.	2476880000	2476890000	2476900000	2476910000
without test button	Type	DRIKIT 12VDC 2CO LD	DRIKIT 24VDC 2CO LD	DRIKIT 48VDC 2CO LD	DRIKIT 110VDC 2CO LD
	Order No.	2476810000	2476820000	2476830000	2476840000
	Type				
	Order No.				
	Type				
	Order No.				

Note				

Ordering data

	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	50 mA /	9.3 mA /	4,9 mA /
Power rating	1.2 VA	1.1 VA	1.1 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Status indicator	red LED	red LED	red LED
Protective circuit			
Output			
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data				
with test button	Type	DRIKIT 24VAC 2CO LD/PB	DRIKIT 115VAC 2CO LD/PB	DRIKIT 230VAC 2CO LD/PB
	Order No.	2476920000	2476930000	2476940000
without test button	Type	DRIKIT 24VAC 2CO LD	DRIKIT 115VAC 2CO LD	DRIKIT 230VAC 2CO LD
	Order No.	2476850000	2476860000	2476870000
	Type			
	Order No.			
	Type			
	Order No.			

Note			

D-SERIES – relay modules

DRI relay

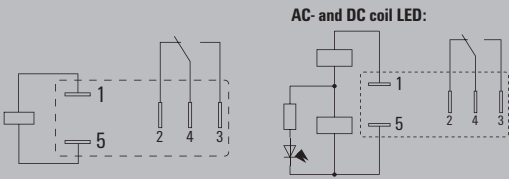
1 CO contact, AC/DC coil

- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue) and mechanical switch position indication (for version with test button)
- Optional: Bright status LED (AC coil: red / DC coil: green)
- Optional: free-wheeling diode

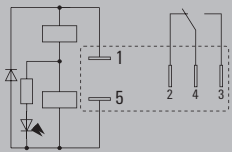


Circuit diagram

View on Pins from below



DC coil LED+diode



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...55 °C
Storage temperature	-40 °C...85 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE; cURus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2

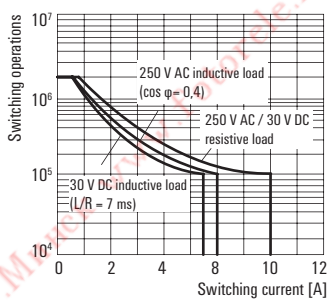
Dimensions Flat blade connections (4.7 mm x 0.5 mm)

Depth x width x height see dimensioned drawing

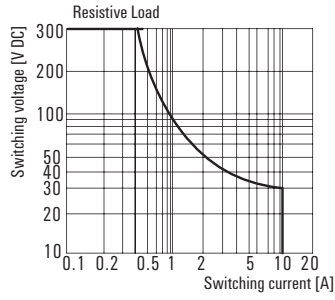
Note

Applications

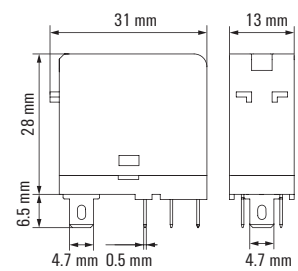
Electrical endurance



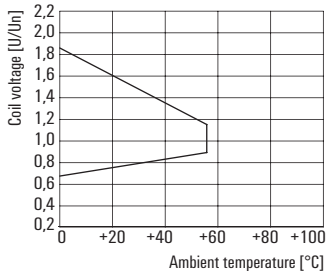
DC load braking capacity



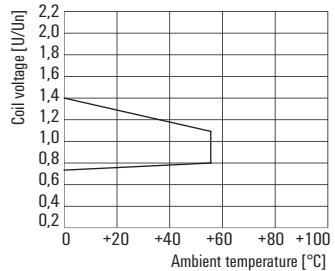
Dimensioned drawing without test button



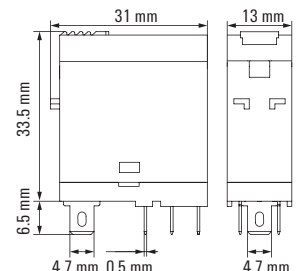
Operating voltage range [DC]



Operating voltage range [AC]



Dimensioned drawing with test button



DRI relay
1 CO contact, AC/DC coil

Type code	DRI								
Type	DRI								
Type of construction	314	1 CO contact							
	424	2 CO contacts							
Coil voltage	012	12 V DC	524	24 V AC					
	024	24 V DC	615	115 V AC					
	048	48 V DC	730	230 V AC					
	110	110 V DC							
LED	L (Red for AC coil; green for DC coil)								
Test lever including mechanical status indicator	T (Red lever for AC coil; blue lever for DC coil)								
Free wheeling diode	D (DC coil only)								

Ordering data

	12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
Input				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating	530 mW	530 mW	530 mW	530 mW
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
Standard	Type DRI314012	Type DRI314024	Type DRI314048	Type DRI314110
Order No.	7760056296	7760056297	7760056298	7760056299
with LED	Type DRI314012L	Type DRI314024L	Type DRI314048L	Type DRI314110L
Order No.	7760056303	7760056304	7760056305	7760056306
with LED + freewheel diode	Type DRI314012LD	Type DRI314024LD	Type DRI314048LD	Type DRI314110LD
Order No.	7760056310	7760056311	7760056312	7760056313
with test button + LED	Type DRI314012LTD	Type DRI314024LTD	Type DRI314048LTD	Type DRI314110LTD
+ Free-wheel diode	Order No. 7760056314	Order No. 7760056315	Order No. 7760056316	Order No. 7760056317

Note				
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Ordering data

	24 V AC 1CO	115 V AC 1CO	230 V AC 1 CO
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	50 mA /	9.3 mA /	4,9 mA /
Power rating	1.2 VA	1.1 VA	1.1 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Output			
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data			
Standard	Type DRI314524	Type DRI314615	Type DRI314730
Order No.	7760056300	7760056301	7760056302
with LED	Type DRI314524L	Type DRI314615L	Type DRI314730L
Order No.	7760056307	7760056308	7760056309
with test button + LED	Type DRI314524LT	Type DRI314615LT	Type DRI314730LT
Order No.	7760056318	7760056319	7760056320
	Type		
	Order No.		

Note			
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D-SERIES – relay modules

Accessories for DRI relays

- Base, logical construction, input and output isolated
- Terminal-rail unlocking using screwdriver
- Wide assortment of functional modules

Technical data

Output

Rated switching voltage
250 V
Max. switching voltage, AC
250 V
Continuous current
12 A

Rated data

Ambient temperature (operational)
-40 °C...70 °C
Storage temperature
-40 °C...85 °C
Approvals
CE; cURus

Insulation coordination

Protection degree
IP20
Creepage and clearance distance input - output
≥ 3 mm
Dielectric strength input - output
4 kV_{eff} / 1 min.
Dielectric strength of neighbouring contacts
4.8 kV (1.2/50 μs)
Impulse withstand voltage
4.8 kV (1.2/50 μs)

Connection data

Clamping range (nominal / min. / max.)
1.5 / 0.25 / 4 mm²
Tightening torque
0.5...0.8 Nm
Stripping length, rated connection
8 mm

Note

Ordering data

Base on TS35 DIN rail

Note

Accessories

LED module / protection modules

Free-wheeling diode 6 - 230 V DC
LED 6 - 24 V DC green and freewheeling diode
LED 24 - 60 V DC green and free-wheeling diode
LED 110 - 230 V DC green and free-wheeling diode
LED 6 - 24 V UC green
LED 24 - 60 V UC green
LED 110 - 230 V UC green
RC element 110 - 230 V AC; 4.7 kΩ / 10 nF
RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green

Retaining clip

Plastic retaining clip

Markers

white

Screwdriver

Screwdriver, insulated PH1
Screwdriver, insulated PH1 SlimLine
Screwdriver PH1

Cross-connection

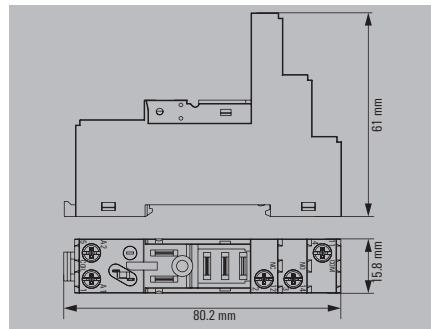
Cross-connection, 8-pole

Insulated cable connector

Fork-type cable lug 0.5mm² - 1mm²
Fork-type cable lug 1.5mm² - 2.5mm²
Fork-type cable lug 0.5mm² - 1mm²
Fork-type cable lug 1.5mm² - 2.5mm²

Note

Socket with clamping yoke connection, 1 CO contact



250 V AC
250 V
12 A

-40 °C...70 °C
-40 °C...85 °C

CE; cURus

IP20

≥ 3 mm
4 kV_{eff} / 1 min.

4.8 kV (1.2/50 μs)

1.5 / 0.25 / 4 mm²

0.5...0.8 Nm

8 mm

Type	Qty.	Order No.
SDI 1CO	10	7760056350

Type	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	20	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	20	7940018455
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045

Type	Qty.	Order No.
SDI CLIP	10	7760056352

Type	Qty.	Order No.
ESG 6/15 SDI MC NE WS	200	2558340000

Type	Qty.	Order No.
SDIK PH1	1	9008570000

Type	Qty.	Order No.
SDIK PH1 SL	1	1274710000

Type	Qty.	Order No.
SDK PH1	1	9008480000

Type	Qty.	Order No.
SRC-I QV S	10	1132070000

Type	Qty.	Order No.
KQIG-M3/-1	100	1492520000

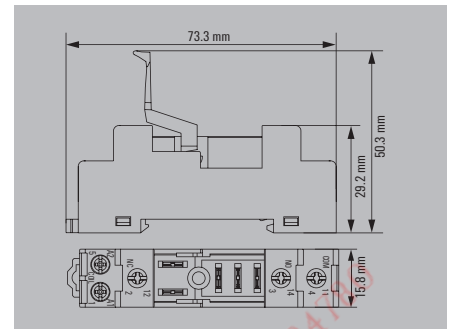
Type	Qty.	Order No.
KQIG-M3/-2,5	100	1492600000

Type	Qty.	Order No.
KQIG-M3,5/-1	100	1492530000

Type	Qty.	Order No.
KQIG-M3,5/-2,5	100	1492610000

Note

Socket with pressure clamping plate, 1 CO contact



250 V AC
250 V
12 A

-40 °C...70 °C
-40 °C...85 °C

CE

IP20

≥ 3 mm
4 kV_{eff} / 1 min.

4.8 kV (1.2/50 μs)

1.5 / 0.5 / 2.5 mm²

0.5...0.8 Nm

8 mm

Type	Qty.	Order No.
SDI 1CO F ECO	10	7760056348

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.
SDIK PH1	1	9008570000

Type	Qty.	Order No.
SDIK PH1 SL	1	1274710000

Type	Qty.	Order No.
SDK PH1	1	9008480000

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.
KQIG-M3/-1	100	1492520000

Type	Qty.	Order No.
KQIG-M3/-2,5	100	1492600000

Type	Qty.	Order No.
KQIG-M3,5/-1	100	1492530000

Type	Qty.	Order No.
KQIG-M3,5/-2,5	100	1492610000

LED and protective modules are not compatible with this base.

г. Минск www.fotorele.net www.tiristor.by email minsk17@tut.by тел. +375447584780

D-SERIES – relay modules

DRI relay

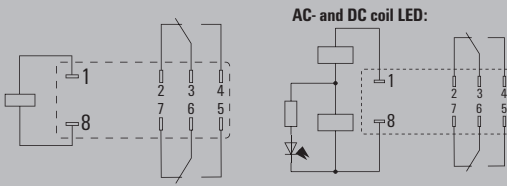
2 CO contacts, AC/DC coil

- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue) and mechanical switch position indication (for version with test button)
- Optional: Bright status LED (AC coil: red / DC coil: green)
- Optional: free-wheeling diode

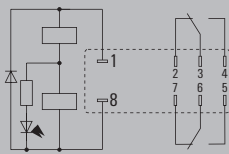


Circuit diagram

View on Pins from below



DC coil LED+diode



Technical data

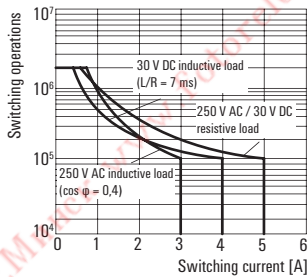
Output	
Rated switching voltage / Continuous current	250 V AC / 5 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	150 W @ 24 V / 1250 VA
Contact material	AgNi
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...55 °C
Storage temperature	-40 °C...85 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE; cURus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	1.5 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2

Dimensions	Flat blade connections (2.5 mm x 0.5 mm)
Depth x width x height	see dimensioned drawing

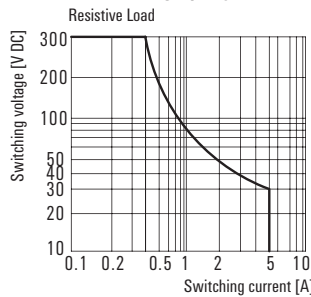
Note

Applications

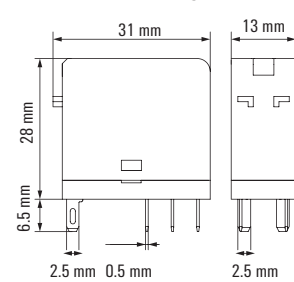
Electrical endurance



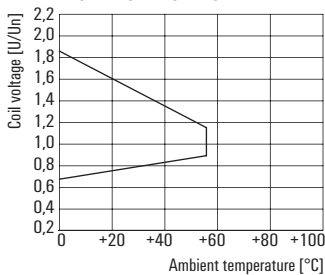
DC load braking capacity



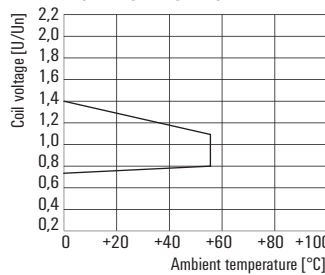
Dimensioned drawing without test button



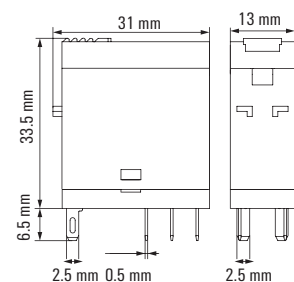
Operating voltage range [DC]



Operating voltage range [AC]



Dimensioned drawing with test button



DRI relay
2 CO contacts, AC/DC coil

Type code	DRI								
Type	DRI								
Type of construction	314	1 CO contact							
	424	2 CO contacts							
Coil voltage	012	12 V DC	524	24 V AC					
	024	24 V DC	615	115 V AC					
	048	48 V DC	730	230 V AC					
	110	110 V DC							
LED	L (Red for AC coil; green for DC coil)								
Test lever including mechanical status indicator	T (Red lever for AC coil; blue lever for DC coil)								
Free wheeling diode	D (DC coil only)								

Ordering data

	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Input				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating	530 mW	530 mW	530 mW	530 mW
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
Standard	Type DRI424012	Type DRI424024	Type DRI424048	Type DRI424110
Order No.	7760056321	7760056322	7760056323	7760056324
with LED	Type DRI424012L	Type DRI424024L	Type DRI424048L	Type DRI424110L
Order No.	7760056328	7760056329	7760056330	7760056331
with LED + freewheel diode	Type DRI424012LD	Type DRI424024LD	Type DRI424048LD	Type DRI424110LD
Order No.	7760056335	7760056336	7760056337	7760056338
with test button + LED	Type DRI424012LTD	Type DRI424024LTD	Type DRI424048LTD	Type DRI424110LTD
+ Free-wheel diode	Order No. 7760056339	Order No. 7760056340	Order No. 7760056341	Order No. 7760056342

Note

Ordering data

	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	50 mA /	9.3 mA /	4,9 mA /
Power rating	1.2 VA	1.1 VA	1.1 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Output			
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data			
Standard	Type DRI424524	Type DRI424615	Type DRI424730
Order No.	7760056325	7760056326	7760056327
with LED	Type DRI424524L	Type DRI424615L	Type DRI424730L
Order No.	7760056332	7760056333	7760056334
with test button + LED	Type DRI424524LT	Type DRI424615LT	Type DRI424730LT
Order No.	7760056343	7760056344	7760056345
	Type		
Order No.			

Note

D-SERIES – relay modules

Accessories for DRI relays

- Base, logical construction, input and output isolated
- Terminal-rail unlocking using screwdriver
- Wide assortment of functional modules

Technical data

Output
Rated switching voltage
Max. switching voltage, AC
Continuous current
Rated data
Ambient temperature (operational)
Storage temperature
Approvals
Insulation coordination
Protection degree
Creepage and clearance distance input - output
Dielectric strength input - output
Dielectric strength of neighbouring contacts
Impulse withstand voltage
Connection data
Clamping range (nominal / min. / max.)
Tightening torque
Stripping length, rated connection
Note

Ordering data

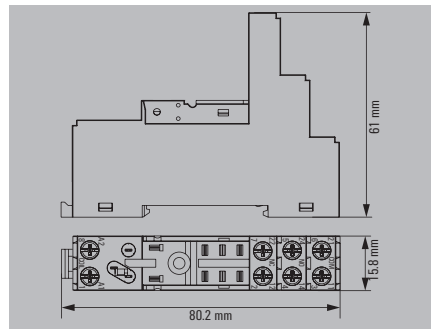
Base on TS35 DIN rail
Note

Accessories

LED module / protection modules
Free-wheeling diode 6 - 230 V DC
LED 6 - 24 V DC green and freewheeling diode
LED 24 - 60 V DC green and free-wheeling diode
LED 110 - 230 V DC green and free-wheeling diode
LED 6 - 24 V UC green
LED 24 - 60 V UC green
LED 110 - 230 V UC green
RC element 110 - 230 V AC; 4.7 kΩ / 10 nF
RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green
Retaining clip
Plastic retaining clip
Markers
white
Screwdriver
Screwdriver, insulated PH1
Screwdriver, insulated PH1 SlimLine
Screwdriver PH1
Cross-connection
Cross-connection, 8-pole
Insulated cable connector
Fork-type cable lug 0.5mm ² - 1mm ²
Fork-type cable lug 1.5mm ² - 2.5mm ²

Note

Socket with clamping yoke connection, 2 CO contacts



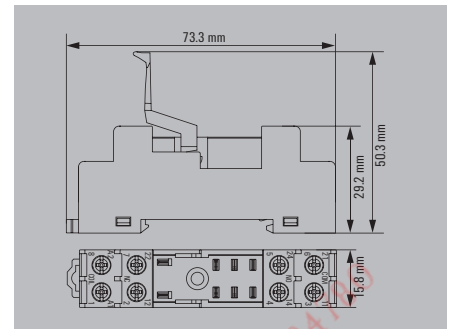
250 V AC
250 V
8 A
-40 °C...70 °C
-40 °C...85 °C
CE; cURus
IP20
≥ 3 mm
4 kV _{eff} / 1 min.
2.5 kV _{eff} / 1 min.
4.8 kV (1.2/50 μs)
1.5 / 0.25 / 4 mm ²
0.5...0.8 Nm
8 mm

Type	Qty.	Order No.
SDI 2CO	10	7760056351

Type	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	20	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	20	7940018455
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
SDI CLIP	10	7760056352
ESG 6/15 SDI MC NE WS	200	2558340000
SDIK PH1	1	9008570000
SDIK PH1 SL	1	1274710000
SDK PH1	1	9008480000
SRC-I QV S	10	1132070000

Note

Socket with pressure clamping plate, 2 CO contacts



250 V AC
250 V
8 A
-40 °C...70 °C
-40 °C...85 °C
CE
IP20
≥ 3 mm
4 kV _{eff} / 1 min.
2.5 kV _{eff} / 1 min.
4.8 kV (1.2/50 μs)
1.5 / 0.5 / 2.5 mm ²
0.5...0.8 Nm
8 mm

Type	Qty.	Order No.
SDI 2CO F ECO	10	7760056349

Type	Qty.	Order No.
SDIK PH1	1	9008570000
SDIK PH1 SL	1	1274710000
SDK PH1	1	9008480000
KQIG-M3/-1	100	1492520000
KQIG-M3/-2,5	100	1492600000

LED and protective modules are not compatible with this base.

г. Минск www.fotorele.net www.tiristor.by email minsk17@tut.by тел. +375447584780

D-SERIES – relay modules

DRM KIT with screw connection

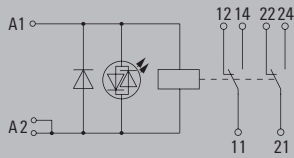
2 CO contacts

- Assembled kit consisting of relay, socket and retaining clip, incl. label
- 100% function-tested
- Full monitoring of the dielectric strength at input and output
- Mechanical switch position indicator
- Bright status LED (AC coil: red, DC coil: green)
- Optional: test button with coloured control voltage marking (AC coil: red, DC coil: blue)

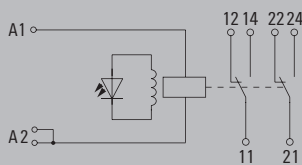


B

DC-Version



AC-Version



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 50 ms
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi 0,15 µm Au
Mechanical service life	20 x 10 ⁸ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...70 °C
Humidity	
Approvals	
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	4.8 kV (1.2/50 µs)
Dielectric strength input - output	1.8 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	1 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 5.5 mm
Overtoltage category	III
Pollution degree	2
Dimensions	
Screw connection	
Clamping range (nominal / min. / max.)	/ 0.5 / 2.5
Depth x width x height	mm 66.8 / 27.2 / 79.9
Note	

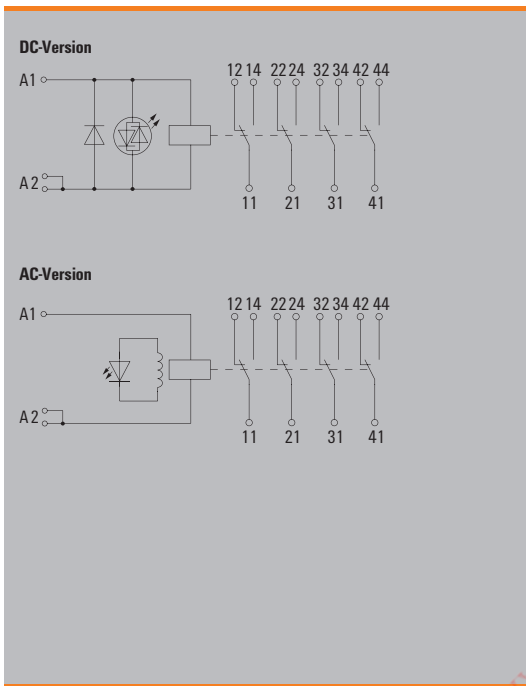
Ordering data

		24 V DC 2CO		220 V DC 2CO		24 V AC 2CO		230 V AC 2CO	
Input		24 V DC		220 V DC		24 V AC		230 V AC	
Rated control voltage		24 V DC		220 V DC		24 V AC		230 V AC	
Rated current AC / DC		/ 36.9 mA		/ 5.2 mA		62.4 mA (50 Hz), 52.2 mA (60 Hz) /		6.1 mA (50 Hz), 5.2 mA (60 Hz) /	
Power rating		0.9 W		1.2 W		1.0...1.2VA (60HZ)		1.0...1.2VA (60HZ)	
Pull-in/drop-out voltage, typ.		18 V / 2.4 V DC		154 V / 22 V DC		19.2 V / 7.2 V AC		184 V / 69 V AC	
Status indicator		Green LED		Green LED		red LED		red LED	
Protective circuit		Free-wheel diode		Free-wheel diode					
Output									
Switch-on delay		< 20 ms		< 20 ms		< 20 ms		< 20 ms	
Switch-off delay		< 20 ms		< 20 ms		< 20 ms		< 20 ms	
Ordering data									
with test button	Type	DRMKIT 24VDC 2CO LD/PB		DRMKIT 220VDC 2CO LD/PB		DRMKIT 24VAC 2CO LD/PB		DRMKIT 230VAC 2CO LD/PB	
	Order No.	1542460000		1542470000		1542480000		1542490000	
without test button	Type	DRMKIT 24VDC 2CO LD		DRMKIT 220VDC 2CO LD		DRMKIT 24VAC 2CO LD		DRMKIT 230VAC 2CO LD	
	Order No.	1542360000		1542370000		1542380000		1542390000	
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	DRM270024LT	DRM270024L	DRM270220LT	DRM270220L	DRM270524LT	DRM270524L	DRM270730LT	DRM270730L
	Order No.	7760056069	7760056060	7760056072	7760056063	7760056073	7760056064	7760056076	7760056067
Note									

DRM KIT with screw connection

4 CO contacts

- Assembled kit consisting of relay, socket and retaining clip, incl. label
- 100% function-tested
- Full monitoring of the dielectric strength at input and output
- Mechanical switch position indicator
- Bright status LED (AC coil: red, DC coil: green)
- Optional: test button with coloured control voltage marking (AC coil: red, DC coil: blue)



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 5 A
Max. switching voltage, AC	250 V
Inrush current	10 A / 50 ms
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	120 W @ 24 V / 1250 VA
Contact material	AgNi 0,15 µm Au
Mechanical service life	20 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...70 °C
Humidity	
Approvals	
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	4.8 kV (1.2/50 µs)
Dielectric strength input - output	1.8 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	1 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 5.5 mm
Overtoltage category	III
Pollution degree	2
Dimensions	
Screw connection	
Clamping range (nominal / min. / max.)	/ 0.5 / 2.5
Depth x width x height	mm 66.8 / 27.2 / 79.9
Note	

Ordering data

		24 V DC 4CO		220 V DC 4CO		24 V AC 4CO		230 V AC 4CO	
Input		24 V DC		220 V DC		24 V AC		230 V AC	
Rated control voltage		24 V DC		220 V DC		24 V AC		230 V AC	
Rated current AC / DC		/ 36.9 mA		/ 5.2 mA		62.4 mA (50 Hz), 52.2 mA (60 Hz) /		6.1 mA (50 Hz), 5.2 mA (60 Hz) /	
Power rating		0.9 W		1.2 W		1.0...1.2VA (60HZ)		1.0...1.2VA (60HZ)	
Pull-in/drop-out voltage, typ.		18 V / 2.4 V DC		154 V / 22 V DC		19.2 V / 7.2 V AC		184 V / 69 V AC	
Status indicator		Green LED		Green LED		red LED		red LED	
Protective circuit		Free-wheel diode		Free-wheel diode					
Output									
Switch-on delay		< 20 ms		< 20 ms		< 20 ms		< 20 ms	
Switch-off delay		< 20 ms		< 20 ms		< 20 ms		< 20 ms	
Ordering data									
with test button	Type	DRMKIT 24VDC 4CO LD/PB		DRMKIT 220VDC 4CO LD/PB		DRMKIT 24VAC 4CO LD/PB		DRMKIT 230VAC 4CO LD/PB	
	Order No.	1542510000		1542520000		1542530000		1542540000	
without test button	Type	DRMKIT 24VDC 4CO LD		DRMKIT 220VDC 4CO LD		DRMKIT 24VAC 4CO LD		DRMKIT 230VAC 4CO LD	
	Order No.	1542410000		1542420000		1542430000		1542450000	
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	DRM570024LT DRM570024L		DRM570220LT DRM570220L		DRM570524LT DRM570524L		DRM570730LT DRM570730L	
	Order No.	7760056097 7760056088		7760056100 7760056091		7760056101 7760056092		7760056104 7760056095	
Note									

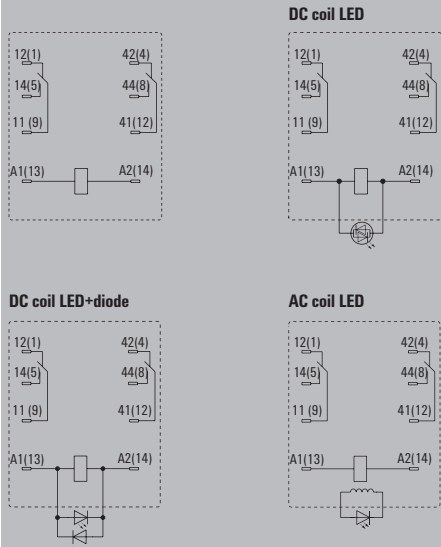
D-SERIES – relay modules

DRM 270 relay
2 CO, AC/DC coil

- Compact design combined with high switching capacity
- Wide range of coil voltages
- Optional test button (AC red, DC blue)
- Optional status LED (AC red, DC green)
- Optional free-wheel diode



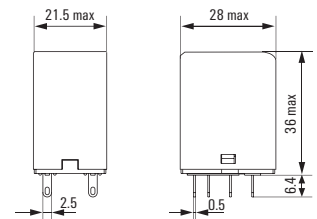
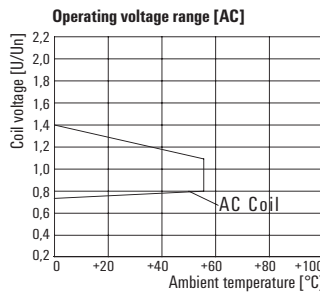
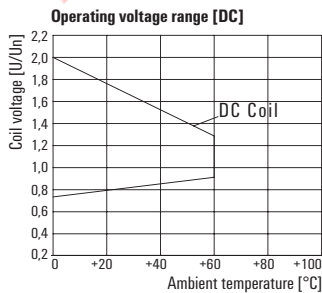
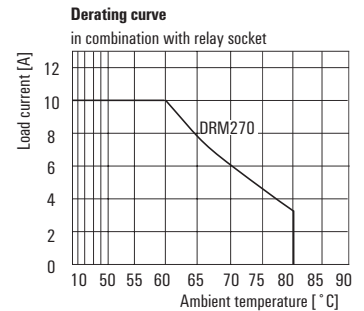
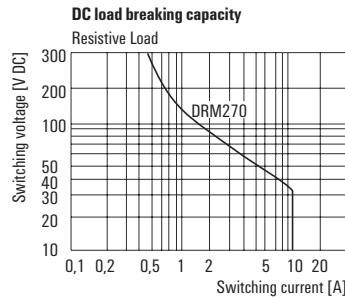
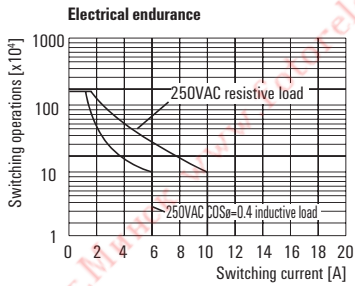
Circuit diagram



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 50 ms
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi 0,15 µm Au
Mechanical service life	20 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...70 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	6 kV (1.2/50 µs)
Dielectric strength input - output	1.8 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	1 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Depth x width x height	mm 35.7 / 21 / 27.4
Plug-in connection	
Note	

Applications



DRM 270 relay
2 CO, AC/DC coil

Type code	DRM					
Type	DRM					
Type of construction	270	2 change over contact				
Coil voltage	006	6 V DC / 012	12 V DC			
	024	24 V DC / 048	48 V DC			
	110	110 V DC / 220	220 V DC			
	524	24 V AC / 548	48 V AC			
	615	115 V AC / 730	230 V AC			
LED	L (Red for AC coil; green for DC coil)					
Test lever	T (Red for AC coil; green for DC coil)					
Free-wheel diode	D					

Ordering data

	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO	220 V DC 2CO
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 75 mA	/ 36.9 mA	/ 18.5 mA	/ 10 mA	/ 5.2 mA
Power rating	0.9 W	0.9 W	0.9 W	1.2 W	1.2 W
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11 V DC	154 V / 22 V DC
Pull-in/drop-out current, typ.					
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms

Ordering data	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO	220 V DC 2CO
Standard Type	DRM270012	DRM270024	DRM270048	DRM270110	DRM270220
Order No.	7760056050	7760056051	7760056052	7760056053	7760056054
with LED Type	DRM270012L	DRM270024L	DRM270048L	DRM270110L	DRM270220L
Order No.	7760056059	7760056060	7760056061	7760056062	7760056063
with test button + LED Type	DRM270012LT	DRM270024LT	DRM270048LT	DRM270110LT	DRM270220LT
Order No.	7760056068	7760056069	7760056070	7760056071	7760056072
with LED Type		DRM270024LD			
+ Free-wheel diode Order No.		7760056077			

Note	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO	220 V DC 2CO

Ordering data

	24 V AC 2CO	48 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Input				
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current AC / DC	62.4 mA (50 Hz), 52.2 mA (60 Hz) /	33.3 mA (50 Hz), 27.8 mA (60 Hz) /	12.6 mA (50 Hz), 10.8 mA (60 Hz) /	6.1 mA (50 Hz), 5.2 mA (60 Hz) /
Power rating	1.0...1.2VA (60HZ)	1.0...1.2VA (60HZ)	1.0...1.2VA (60HZ)	1.0...1.2VA (60HZ)
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	38.4 V / 14.4 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.				
Output				
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms

Ordering data	24 V AC 2CO	48 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Standard Type	DRM270524	DRM270548	DRM270615	DRM270730
Order No.	7760056055	7760056056	7760056057	7760056058
with LED Type	DRM270524L	DRM270548L	DRM270615L	DRM270730L
Order No.	7760056064	7760056065	7760056066	7760056067
with test button + LED Type	DRM270524LT	DRM270548LT	DRM270615LT	DRM270730LT
Order No.	7760056073	7760056074	7760056075	7760056076
Type				
Order No.				

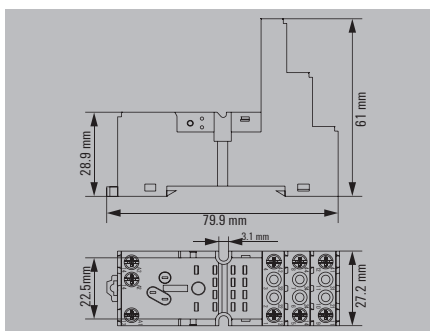
Note	24 V AC 2CO	48 V AC 2CO	115 V AC 2CO	230 V AC 2CO

D-SERIES – relay modules

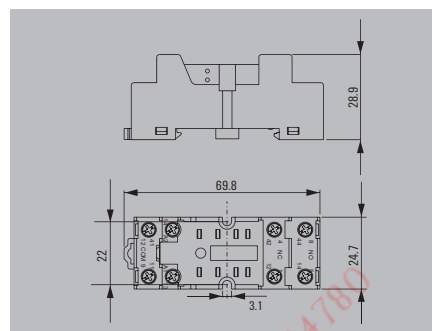
Accessories for DRM relays

- Isolated input and output
- Terminal rail can be unlocked with a screwdriver
- Wide assortment of functional modules

Socket module with clamping yoke connection, 2 CO contacts



Socket module with leaf spring connection, 2 CO contacts



Technical data

Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	300 V
Continuous current	12 A
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE; cURus; EAC
Insulation coordination	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 5.5 mm
Dielectric strength input - output	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	4 kV _{eff} / 1 min
Impulse withstand voltage	4.8 kV (1.2/50 µs)
Connection data	
Clamping range (nominal / min. / max.)	/ 0.5 / 2.5 mm ²
Tightening torque	0.5...0.8 Nm
Stripping length, rated connection	7 mm
Note	

Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	300 V
Continuous current	12 A
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE; cURus; EAC
Insulation coordination	
Protection degree	IP10
Creepage and clearance distance input - output	≥ 4 mm
Dielectric strength input - output	2 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Impulse withstand voltage	4 kV (1.2/50 µs)
Connection data	
Clamping range (nominal / min. / max.)	/ 0.5 / 2.5 mm ²
Tightening torque	0.5...0.8 Nm
Stripping length, rated connection	7 mm
Note	

Ordering data

	Socket, DIN rail mounted
Note	

Type	Qty.	Order No.
SCM 2CO ECO	10	7760056263

Type	Qty.	Order No.
FS 2CO	10	7760056106

Accessories

LED module / protection modules	
	LED 6 - 24 V UC green
	LED 24 - 60 V UC green
	LED 110 - 230 V UC green
	LED 24 - 60 V DC green and free-wheeling diode
	LED 110 - 230 V DC green and free-wheeling diode
	LED 6 - 24 V DC green and freewheeling diode
	RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green
	RC element 110 - 230 V AC; 4.7 kΩ / 10 nF
	Free-wheeling diode 6 - 230 V DC
Retaining clip	Metal retaining clip
Markers	white
	yellow
	grey
Cross-connection	8-pole
Screwdriver	Screwdriver, insulated PH1 SlimLine
	Screwdriver, insulated PH1
	Screwdriver PH1
Note	

Type	Qty.	Order No.
RIM 3 6/24VUC	20	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	20	7940018455
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 2 6/24VDC	10	7760056015
RIM 3 110/230VAC LED	10	7760056045
RIM 3 110/230VAC	10	7760056014
RIM 1 6/230VDC	10	7760056169
DRM/DRL CLIP M	10	7760056108
ESG 9/26 SCM ECO MC NE WS	80	1520980000
ESG 9/26 SCM ECO MC NE GE	80	1520990000
ESG 9/26 SCM ECO MC NE GR	80	1521000000
SCMH QV S	10	1132080000
SDIK PH1 SL	1	1274710000
SDIK PH1	1	9008570000
SDK PH1	1	9008480000
Note		

Type	Qty.	Order No.
DRM/DRL CLIP M	10	7760056108
SDIK PH1 SL	1	1274710000
SDIK PH1	1	9008570000
SDK PH1	1	9008480000
Note		

LED and protective modules are not compatible with this base.

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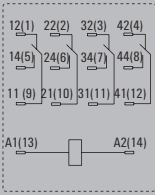
D-SERIES – relay modules

DRM 570 relay
4 CO AC/DC coil

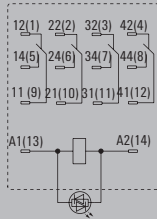
- Compact design combined with high switching capacity
- Wide range of coil voltages
- Optional test button (AC red, DC blue)
- Optional status LED (AC red, DC green)
- Optional free-wheel diode



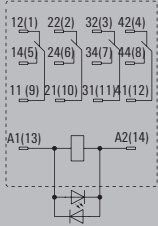
Circuit diagram



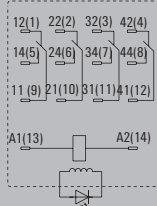
DC coil LED



DC coil LED+diode



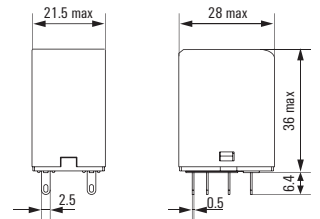
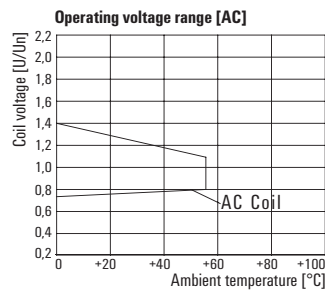
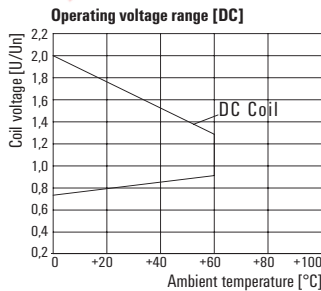
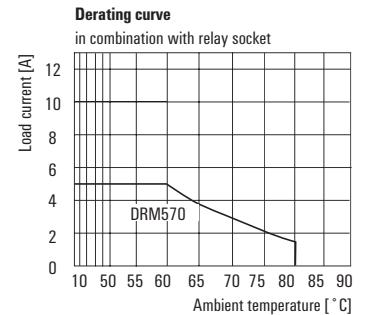
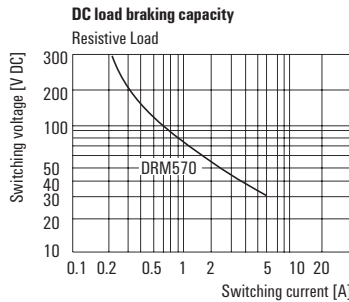
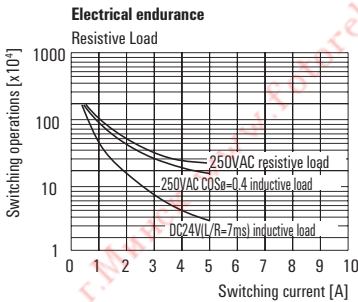
AC coil LED



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 5 A
Max. switching voltage, AC	250 V
Inrush current	10 A / 50 ms
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	120 W @ 24 V / 1250 VA
Contact material	AgNi 0,15 µm Au
Mechanical service life	20 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...70 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	6 kV (1.2/50 µs)
Dielectric strength input - output	1.8 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	1 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Depth x width x height	mm 35.7 / 21 / 27.4
Plug-in connection	
Note	

Applications



DRM 570 relay
4 CO AC/DC coil

Type code		DRM					
Type	DRM						
Type of construction	570 4 change over contact						
Coil voltage	006	6 V DC / 012	12 V DC				
	024	24 V DC / 048	48 V DC				
	110	110 V DC / 220	220 V DC				
	524	24 V AC / 548	48 V AC				
	615	115 V AC / 730	230 V AC				
LED	L (Red for AC coil; green for DC coil)						
Test lever	T (Red for AC coil; green for DC coil)						
Free-wheel diode	D						

Ordering data

	12 V DC 4CO	24 V DC 4CO	48 V DC 4CO	110 V DC 4CO	220 V DC 4CO
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 75 mA	/ 36.9 mA	/ 18.5 mA	/ 10 mA	/ 5.2 mA
Power rating	0.9 W	0.9 W	0.9 W	1.2 W	1.2 W
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11 V DC	154 V / 22 V DC
Pull-in/drop-out current, typ.					
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Ordering data					
Standard	Type DRM570012	Type DRM570024	Type DRM570048	Type DRM570110	Type DRM570220
	Order No. 7760056078	Order No. 7760056079	Order No. 7760056080	Order No. 7760056081	Order No. 7760056082
with LED	Type DRM570012L	Type DRM570024L	Type DRM570048L	Type DRM570110L	Type DRM570220L
	Order No. 7760056087	Order No. 7760056088	Order No. 7760056089	Order No. 7760056090	Order No. 7760056091
with test button + LED	Type DRM570012LT	Type DRM570024LT	Type DRM570048LT	Type DRM570110LT	Type DRM570220LT
	Order No. 7760056096	Order No. 7760056097	Order No. 7760056098	Order No. 7760056099	Order No. 7760056100
with LED	Type DRM570024LD	Type DRM570024LD	Type DRM570024LD	Type DRM570024LD	Type DRM570024LD
+ Free-wheel diode	Order No.	Order No. 7760056105	Order No.	Order No.	Order No.
Note					

Ordering data

	24 V AC 4CO	48 V AC 4CO	115 V AC 4CO	230 V AC 4CO
Input				
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current AC / DC	62.4 mA (50 Hz), 52.2 mA (60 Hz) /	33.3 mA (50 Hz), 27.8 mA (60 Hz) /	12.6 mA (50 Hz), 10.8 mA (60 Hz) /	6.1 mA (50 Hz), 5.2 mA (60 Hz) /
Power rating	1.0...1.2VA (60HZ)	1.0...1.2VA (60HZ)	1.0...1.2VA (60HZ)	1.0...1.2VA (60HZ)
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	38.4 V / 14.4 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.				
Output				
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Ordering data				
Standard	Type DRM570524	Type DRM570548	Type DRM570615	Type DRM570730
	Order No. 7760056083	Order No. 7760056084	Order No. 7760056085	Order No. 7760056086
with LED	Type DRM570524L	Type DRM570548L	Type DRM570615L	Type DRM570730L
	Order No. 7760056092	Order No. 7760056093	Order No. 7760056094	Order No. 7760056095
with test button + LED	Type DRM570524LT	Type DRM570548LT	Type DRM570615LT	Type DRM570730LT
	Order No. 7760056101	Order No. 7760056102	Order No. 7760056103	Order No. 7760056104
	Type DRM570524LD	Type DRM570524LD	Type DRM570524LD	Type DRM570524LD
	Order No.	Order No.	Order No.	Order No.
Note				

D-SERIES – relay modules

Accessories for DRM relays

- Isolated input and output
- Terminal rail can be unlocked with a screwdriver
- Wide assortment of functional modules

Technical data

Output
Rated switching voltage
Max. switching voltage, AC
Continuous current
Rated data
Ambient temperature (operational)
Storage temperature
Approvals
Insulation coordination
Protection degree
Creepage and clearance distance input - output
Dielectric strength input - output
Dielectric strength of neighbouring contacts
Impulse withstand voltage
Connection data
Clamping range (nominal / min. / max.)
Tightening torque
Stripping length, rated connection
Note

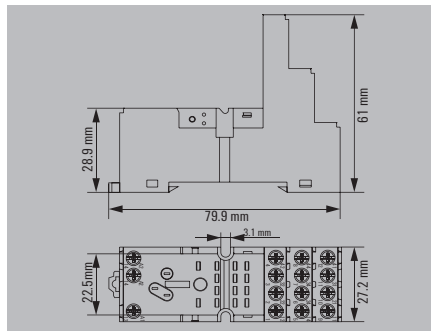
Ordering data

	Socket, DIN rail mounted
Note	

Accessories

LED module / protection modules
LED 6 - 24 V UC green
LED 24 - 60 V UC green
LED 110 - 230 V UC green
LED 24 - 60 V DC green and free-wheeling diode
LED 110 - 230 V DC green and free-wheeling diode
LED 6 - 24 V DC green and freewheeling diode
RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green
RC element 110 - 230 V AC; 4.7 kΩ / 10 nF
Free-wheeling diode 6 - 230 V DC
Retaining clip
Metal retaining clip
Markers
white
yellow
grey
Cross-connection
8-pole
Screwdriver
Screwdriver, insulated PH1 SlimLine
Screwdriver, insulated PH1
Screwdriver PH1
Note

Socket module with clamping yoke connection, 4 CO contacts



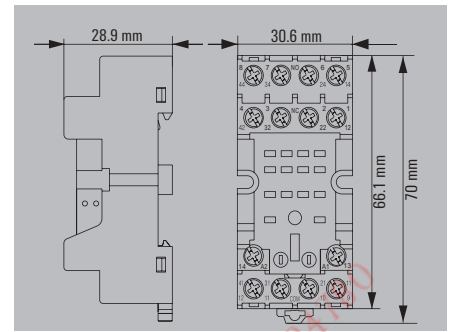
Output
Rated switching voltage
Max. switching voltage, AC
Continuous current
Rated data
Ambient temperature (operational)
Storage temperature
Approvals
Insulation coordination
Protection degree
Creepage and clearance distance input - output
Dielectric strength input - output
Dielectric strength of neighbouring contacts
Impulse withstand voltage
Connection data
Clamping range (nominal / min. / max.)
Tightening torque
Stripping length, rated connection
Note

Type	Qty.	Order No.
SCM 4CO ECO	10	7760056264

Type	Qty.	Order No.
RIM 3 6/24VUC	20	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	20	7940018455
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 2 6/24VDC	10	7760056015
RIM 3 110/230VAC LED	10	7760056045
RIM 3 110/230VAC	10	7760056014
RIM 1 6/230VDC	10	7760056169
DRM/DRL CLIP M	10	7760056108
ESG 9/26 SCM ECO MC NE WS	80	1520980000
ESG 9/26 SCM ECO MC NE GE	80	1520990000
ESG 9/26 SCM ECO MC NE GR	80	1521000000
SCM-I QV S	10	1132080000
SDIK PH1 SL	1	1274710000
SDIK PH1	1	9008570000
SDK PH1	1	9008480000

Note

Socket module with leaf spring connection, 4 CO contacts



Output
Rated switching voltage
Max. switching voltage, AC
Continuous current
Rated data
Ambient temperature (operational)
Storage temperature
Approvals
Insulation coordination
Protection degree
Creepage and clearance distance input - output
Dielectric strength input - output
Dielectric strength of neighbouring contacts
Impulse withstand voltage
Connection data
Clamping range (nominal / min. / max.)
Tightening torque
Stripping length, rated connection
Note

Type	Qty.	Order No.
FS 4CO	10	7760056107

Type	Qty.	Order No.
RIM 3 6/24VUC	20	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	20	7940018455
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 2 6/24VDC	10	7760056015
RIM 3 110/230VAC	10	7760056014
RIM 1 6/230VDC	10	7760056169
DRM/DRL CLIP M	10	7760056108
SDIK PH1 SL	1	1274710000
SDIK PH1	1	9008570000
SDK PH1	1	9008480000

Note

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D-SERIES – relay modules

DRL power relay

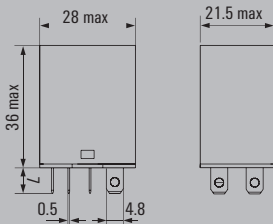
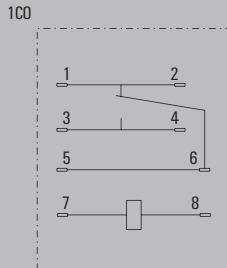
1 CO AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



B

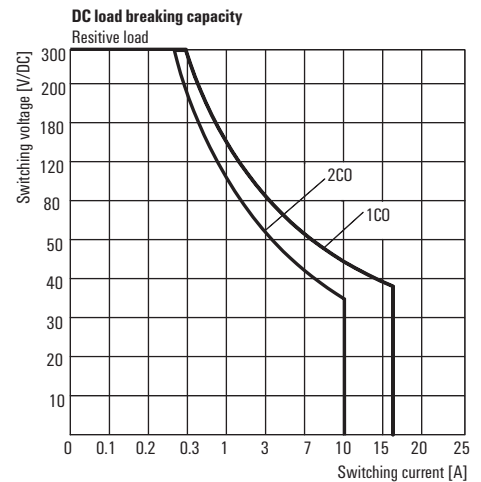
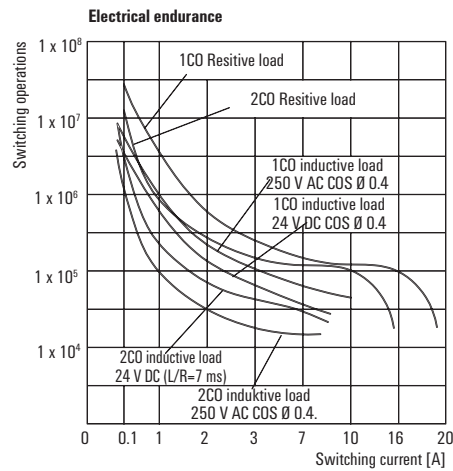
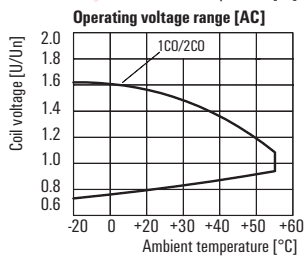
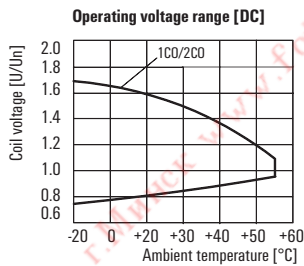
Circuit diagram



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 16 A
Max. switching voltage, AC	250 V
Inrush current	80 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	384 W @ 24 V / 4000 VA
Contact material	AgCdO
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-25 °C...55 °C
Storage temperature	-25 °C...55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	3
Dimensions	
	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 36 / 21.5 / 28
Note	

Applications



**DRL power relay
1 CO AC/DC coil**

Type code	DRL			
Type	DRL			
Type of construction	170 1 change over contact 270 2 change over contacts			
Coil voltage	012 12 V DC / 024 24 V DC 048 48 V DC / 110 110 V DC 220 220 V DC / 524 24 V AC 615 115 V AC / 730 230 V AC			
LED indicator	L			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 75 mA	/ 36.9 mA	/ 18.5 mA	/ 10 mA	/ 5.2 mA
Power rating	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11 V DC	154 V / 22 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms

Ordering data					
1 CO contact	Type	DRL170012L	DRL170024L	DRL170048L	DRL170110L
	Order No.	1133450000	1133460000	1133470000	1133480000
	Type				
	Order No.				
Note					

Ordering data

	24 V AC	115 V AC	230 V AC
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	54 mA /	12,9 mA /	6.8 mA /
Power rating	1.2 VA	1.2 VA	1.2 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.			
Status indicator	red LED	red LED	red LED
Output			
Switch-on delay	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms

Ordering data			
1 CO contact	Type	DRL170524L	DRL170615L
	Order No.	1133840000	1133850000
	Type		
	Order No.		
Note			

D-SERIES – relay modules

DRL power relay

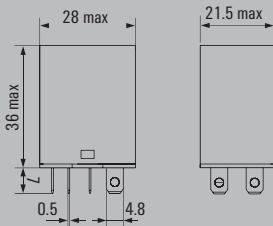
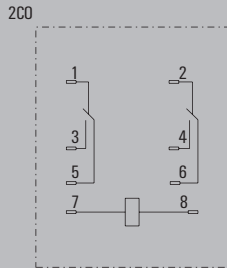
2 CO AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



B

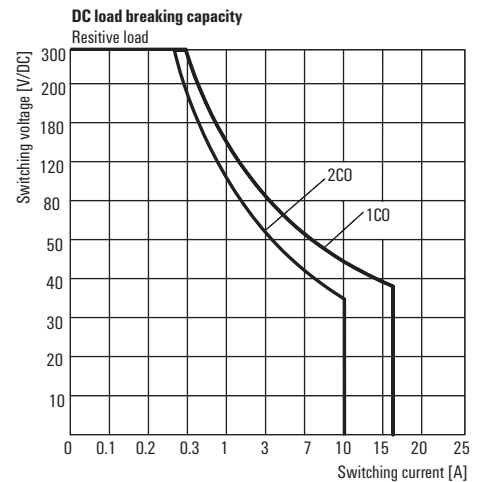
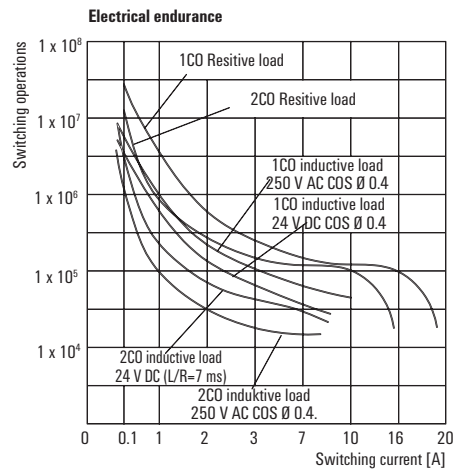
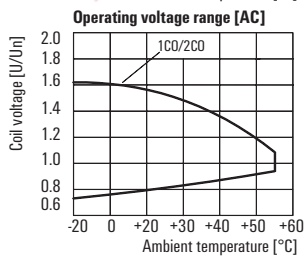
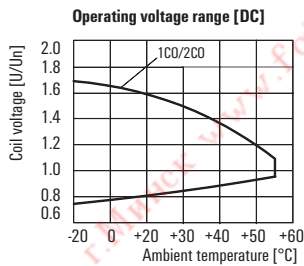
Circuit diagram



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgCdO
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-25 °C...55 °C
Storage temperature	-25 °C...55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	1.2 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	3
Dimensions	
	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 36 / 21.5 / 28
Note	

Applications



**DRL power relay
2 CO AC/DC coil**

Type code	DRL			
Type	DRL			
Type of construction	170 1 change over contact			
	270 2 change over contacts			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	615 115 V AC / 730 230 V AC			
LED indicator	L			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 75 mA	/ 36.9 mA	/ 18.5 mA	/ 10 mA	/ 5.2 mA
Power rating	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11 V DC	154 V / 22 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms

Ordering data					
2 change over contacts Type	DRL270012L	DRL270024L	DRL270048L	DRL270110L	DRL270220L
Order No.	1133510000	1133520000	1133530000	1133540000	1133550000
Type Order No.					
Note					

Ordering data

	24 V AC	115 V AC	230 V AC
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	54 mA /	12,9 mA /	6.8 mA /
Power rating	1.2 VA	1.2 VA	1.2 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.			
Status indicator	red LED	red LED	red LED
Output			
Switch-on delay	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms

Ordering data			
2 change over contacts Type	DRL270524L	DRL270615L	DRL270730L
Order No.	1133870000	1133880000	1133890000
Type Order No.			
Note			

D-SERIES – relay modules

DRL power relay

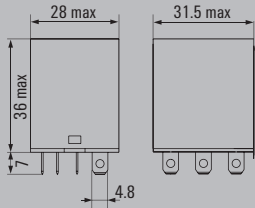
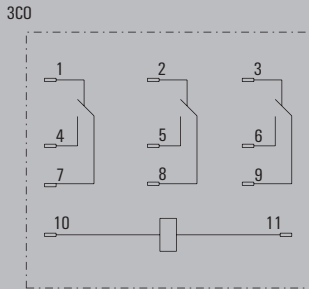
3 CO AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



B

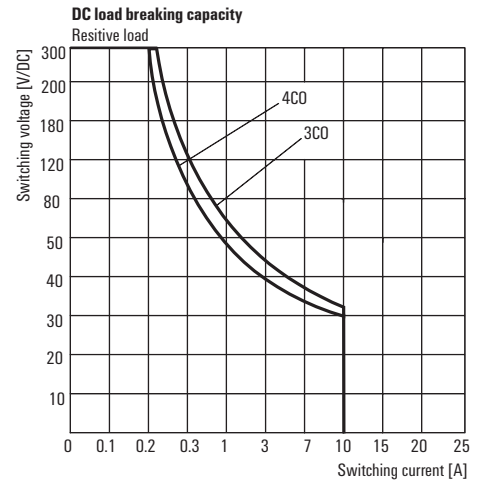
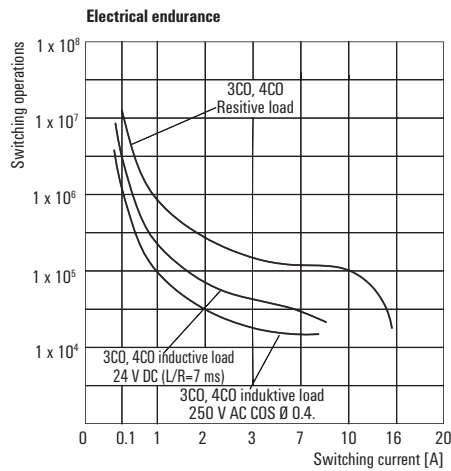
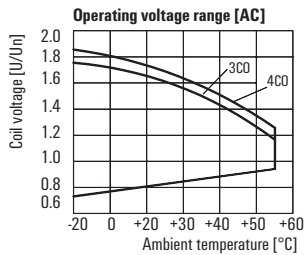
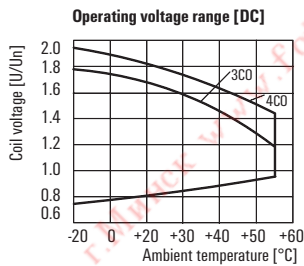
Circuit diagram



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgCdO
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-25 °C...55 °C
Storage temperature	-25 °C...55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	1.2 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overtoltage category	III
Pollution degree	3
Dimensions	
	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 36 / 31.5 / 28
Note	

Applications



**DRL power relay
3 CO AC/DC coil**

Type code	DRL			
Type	DRL			
Type of construction	370 3 change over contact			
	570 4 change over contacts			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	615 115 V AC / 730 230 V AC			
LED indicator	L			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 120 mA	/ 60 mA	/ 30 mA	/ 13.1 mA	/ 6.7 mA
Power rating	1.4 W	1.4 W	1.4 W	1.4 W	1.4 W
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11 V DC	154 V / 22 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms

Ordering data					
3 change over contacts Type	DRL370012L	DRL370024L	DRL370048L	DRL370110L	DRL370220L
Order No.	1133570000	1133580000	1133590000	1133600000	1133610000
Type Order No.					
Note					

Ordering data

	24 V AC	115 V AC	230 V AC
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	80 mA /	16 mA /	10 mA /
Power rating	2 VA	2 VA	2 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.			
Status indicator	red LED	red LED	red LED
Output			
Switch-on delay	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms

Ordering data			
3 change over contacts Type	DRL370524L	DRL370615L	DRL370730L
Order No.	1133910000	1133920000	1133930000
Type Order No.			
Note			

DRL power relay

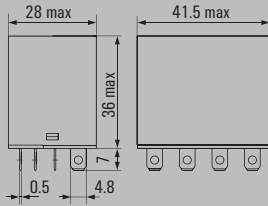
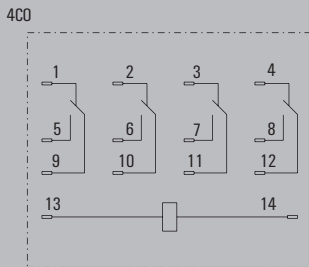
4 CO AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



B

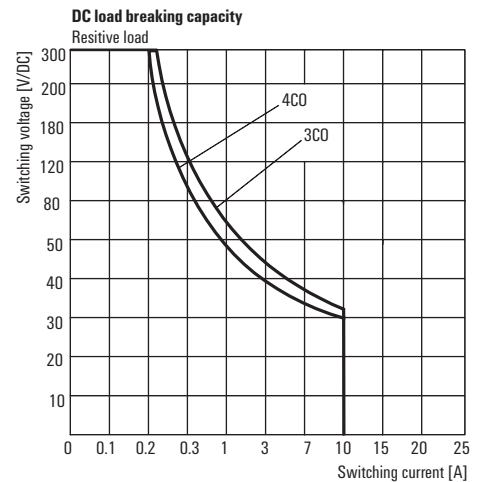
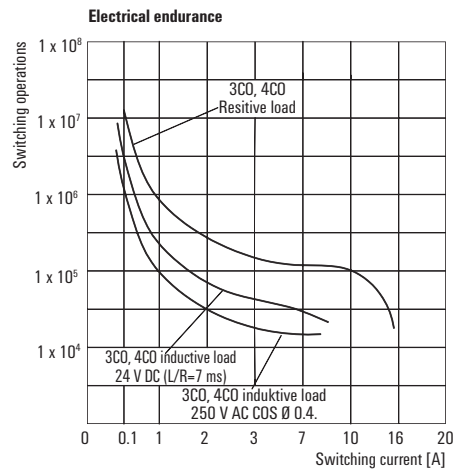
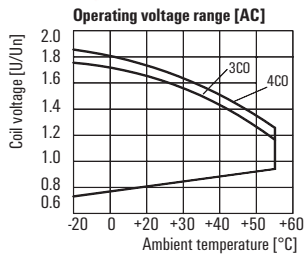
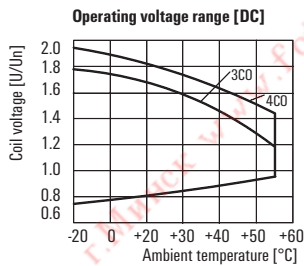
Circuit diagram



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgCdO
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-25 °C...55 °C
Storage temperature	-25 °C...55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	1.2 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	3
Dimensions	
	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 36 / 41.5 / 28
Note	

Applications



**DRL power relay
4 CO AC/DC coil**

Type code	DRL			
Type	DRL			
Type of construction	370 3 change over contact			
	570 4 change over contacts			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	615 115 V AC / 730 230 V AC			
LED indicator	L			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 125 mA	/ 66.7 mA	/ 31.2 mA	/ 16.2 mA	/ 7.6 mA
Power rating	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11 V DC	154 V / 22 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms

Ordering data					
4 change over contacts	Type	DRL570012L	DRL570024L	DRL570048L	DRL570110L
	Order No.	1133620000	1133630000	1133640000	1133650000
	Type				
	Order No.				
Note					

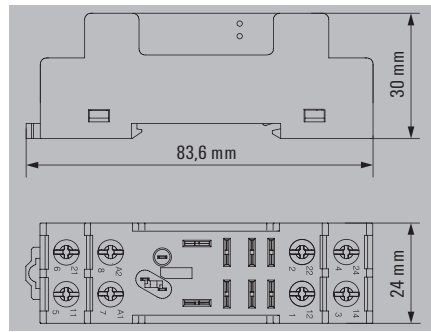
Ordering data

	24 V AC	115 V AC	230 V AC
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	/ 93.5 mA	/ 25.5 mA	/ 13.1 mA
Power rating	2.5 VA	2.5 VA	2.5 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.			
Status indicator	red LED	red LED	red LED
Output			
Switch-on delay	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms

Ordering data			
4 change over contacts	Type	DRL570524L	DRL570615L
	Order No.	1133940000	1133950000
	Type		
	Order No.		
Note			

D-SERIES – relay modules

Accessories for DRL relays

Socket module with
leaf spring connection, 2 CO contacts

Technical data

Output
Rated switching voltage
Max. switching voltage, AC
Continuous current
Rated data
Ambient temperature (operational)
Storage temperature
Approvals
Insulation coordination
Protection degree
Creepage and clearance distance input - output
Dielectric strength input - output
Dielectric strength of neighbouring contacts
Impulse withstand voltage
Connection data
Clamping range (nominal / min. / max.)
Tightening torque
Stripping length, rated connection
Note

250 V AC
250 V
10 A
-40 °C...65 °C
-40 °C...85 °C
CE; cURus
IP10
≥ 6 mm
2 kV _{eff} / 1 min
2 kV _{eff} / 1 min
4 kV (1.2/50 μs)
/ 0.5 / 2.5 mm ²
0.8...1 Nm
8 mm

Ordering data

Socket, DIN rail mounted
Note

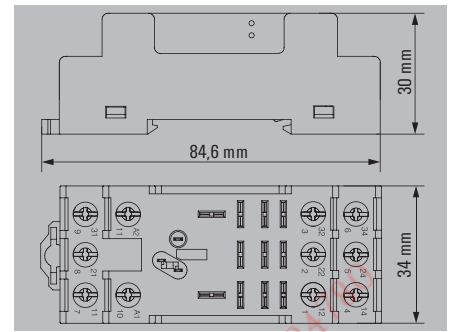
Type	Qty.	Order No.
SLD F 2CO	10	7760056225

Accessories

Retaining clip
Metal retaining clip
LED module / protection modules
LED 110 - 230 V UC green
LED 24 - 60 V UC green
LED 6 - 24 V UC green
LED 110 - 230 V DC green and free-wheeling diode
LED 24 - 60 V DC green and free-wheeling diode
LED 6 - 24 V DC green and free-wheeling diode
Free-wheeling diode 6 - 230 V DC
RC element 110 - 230 V AC; 4.7 kΩ / 10 nF
RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green
RC element 6 - 230 V AC
Screwdriver
Screwdriver, insulated PH2 SlimLine
Screwdriver, insulated PH2
Screwdriver PH2

Type	Qty.	Order No.
DRM/DRL CLIP M	10	7760056108
RIM 3 110/230VUC	20	7940018455
RIM 3 24/60VUC	10	7760056018
RIM 3 6/24VUC	20	7940018457
RIM 2 110/230VDC	10	7760056017
RIM 2 24/60VDC	10	7760056016
RIM 2 6/24VDC	10	7760056015
RIM 1 6/230VDC	10	7760056169
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
SDIK PH2 SL	1	1274720000
SDIK PH2	1	9008580000
SDK PH2	1	9008490000

Note

Socket module with
leaf spring connection, 3 CO contacts

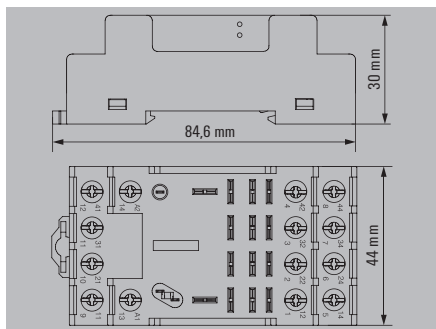
250 V AC
250 V
10 A
-40 °C...65 °C
-40 °C...85 °C
CE; cURus
IP10
≥ 6 mm
2 kV _{eff} / 1 min
2 kV _{eff} / 1 min
4 kV (1.2/50 μs)
/ 0.5 / 2.5 mm ²
0.8...1 Nm
8 mm

Type	Qty.	Order No.
SLD F 3CO	10	7760056226

Type	Qty.	Order No.
SLD CLIP 3CO M	10	7760056234
RIM 3 110/230VUC	20	7940018455
RIM 3 24/60VUC	10	7760056018
RIM 3 6/24VUC	20	7940018457
RIM 2 110/230VDC	10	7760056017
RIM 2 24/60VDC	10	7760056016
RIM 2 6/24VDC	10	7760056015
RIM 1 6/230VDC	10	7760056169
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
SDIK PH2 SL	1	1274720000
SDIK PH2	1	9008580000
SDK PH2	1	9008490000

Note

Socket module with leaf spring connection, 4 CO contacts



250 V AC
250 V
10 A
-40 °C...65 °C
-40 °C...85 °C
CE; cURus
IP10
≥ 6 mm
2 kV _{eff} / 1 min
2 kV _{eff} / 1 min
4 kV (1.2/50 µs)
/ 0.5 / 2.5 mm ²
0.8...1 Nm
8 mm

Type	Qty.	Order No.
SLD F 4CO	10	7760056227

Type	Qty.	Order No.
SLD CLIP 4CO M	10	7760056235
RIM 5 6/230VDC	10	1174650000
RIM 5 6/230VAC	10	1174670000
SDIK PH2 SL	1	1274720000
SDIK PH2	1	9008580000
SDK PH2	1	9008490000

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D-SERIES – relay modules

DRW power relay

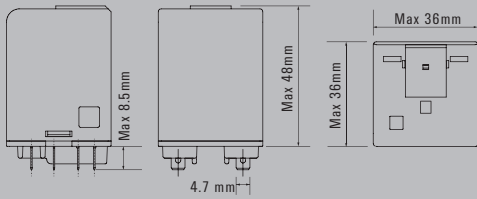
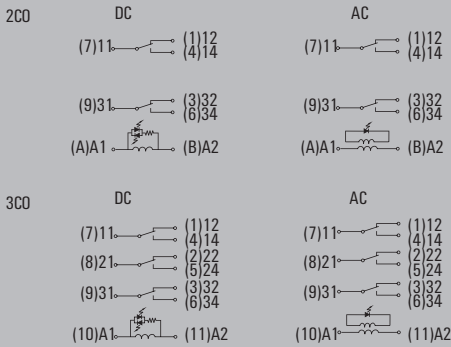
2 CO AC/DC coil

3 CO AC/DC coil

- Suitable for switching high load voltages
- With LED and test lever



Circuit diagram

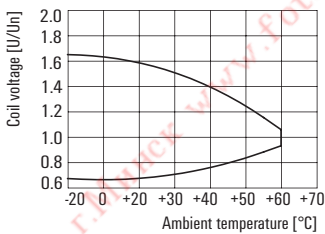


Technical data

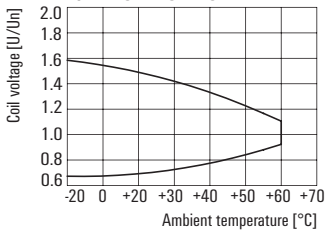
Output	
Rated switching voltage / Continuous current	400 VAC / 16 A
Max. switching voltage, AC	400 V
Inrush current	80 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	384 W @ 24 V / 6400 VA
Contact material	AgCdO
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...60 °C
Humidity	35 % to 85 % relative humidity level
Approvals	CE, cURus
Insulation coordinates	
Rated voltage	400 V
Impulse withstand voltage	6 kV (1.2/50 µs)
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	1.5 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 5.5 mm
Overvoltage category	III
Pollution degree	3
Dimensions	
	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 48 / 36 / 36
Note	

Applications

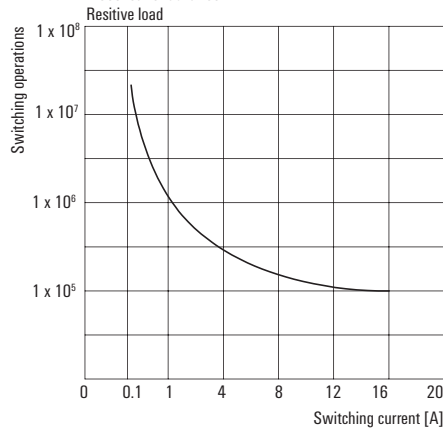
Operating voltage range [DC]



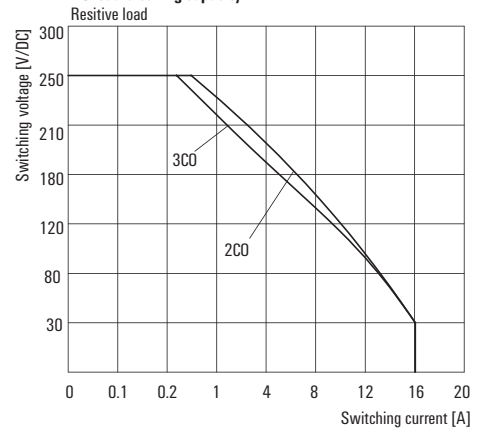
Operating voltage range [AC]



Electrical endurance



DC load breaking capacity



DRW power relay
2 CO AC/DC coil
3 CO AC/DC coil

Type code	DRW			
Type	DRW			
Type of construction	270 2CO 174 1NC			
Coil voltage	012 12 V DC / 024 24 V DC 048 48 V DC / 110 110 V DC 220 220 V DC / 524 24 V AC 548 48 V AC / 615 115 V AC 730 230 V AC / 900 400 V AC			
With LED and test lever	LT			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 120 mA	/ 60 mA	/ 30 mA	/ 13 mA	/ 6.7 mA
Power rating	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11 V DC	165 V / 22 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Ordering data					
2 CO contacts Type	DRW270012LT	DRW270024LT	DRW270048LT	DRW270110LT	DRW270220LT
Order No.	1219730000	1219740000	1219750000	1219760000	1219770000
3 CO contacts Type	DRW370012LT	DRW370024LT	DRW370048LT	DRW370110LT	DRW370220LT
Order No.	1219780000	1219790000	1219810000	1219820000	1219830000
Ordering data					
Test-button lock					
Type	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW
Order No.	7760056249	7760056249	7760056249	7760056249	7760056249
Note					

Ordering data

	24 V AC	48 V AC	115 V AC	230 V AC	400 V AC
Input					
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC	400 V AC
Rated current AC / DC	101.7 mA /	50.5 mA /	21 mA /	10,6 mA /	6.1 mA /
Power rating	2.5 VA	2.5 VA	2.5 VA	2.5 VA	2.5 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	38.4 V / 14.4 V AC	92 V / 34.5 V AC	184 V / 69 V AC	320 V / 120 V AC
Pull-in/drop-out current, typ.					
Status indicator	red LED	red LED	red LED	red LED	red LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Ordering data					
2 CO contacts Type	DRW270524LT	DRW270548LT	DRW270615LT	DRW270730LT	DRW270900LT
Order No.	1219350000	1219360000	1219370000	1219380000	1219390000
3 CO contacts Type	DRW370524LT	DRW370548LT	DRW370615LT	DRW370730LT	DRW370900LT
Order No.	1219410000	1219420000	1219430000	1219440000	1219450000
Ordering data					
Test-button lock					
Type	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW
Order No.	7760056249	7760056249	7760056249	7760056249	7760056249
Note					

D-SERIES – relay modules

DRH DC relay

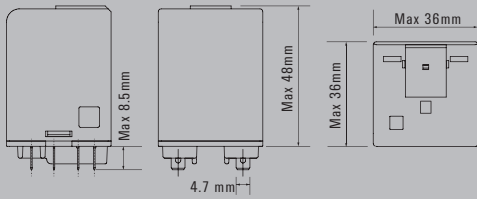
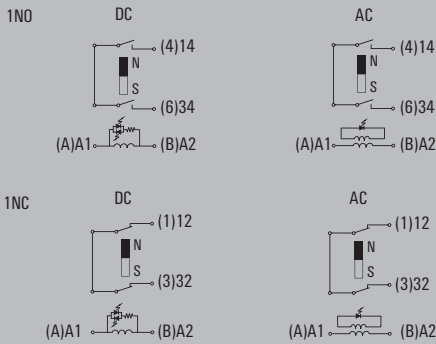
- 1 NO AC/DC coil**
- 1 NC AC/DC coil**

- Suitable for switching high DC loads
- With blowout magnet
- With LED and test button
- For switching high DC loads up to 10 A at 220 V DC



B

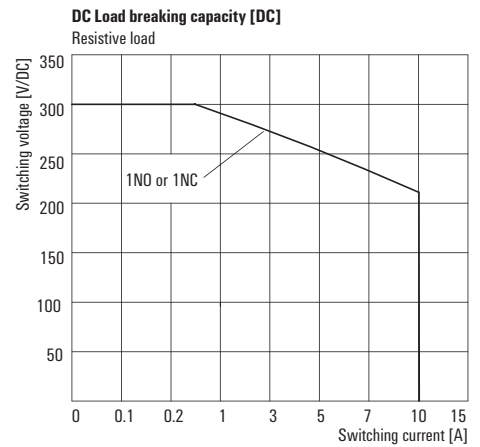
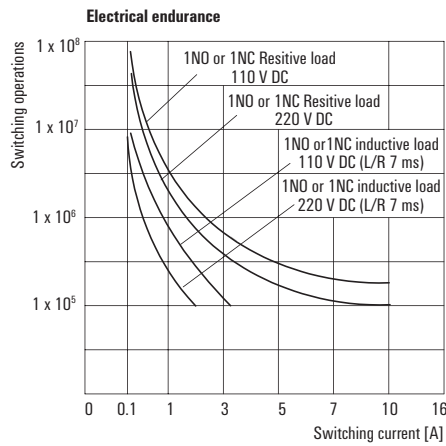
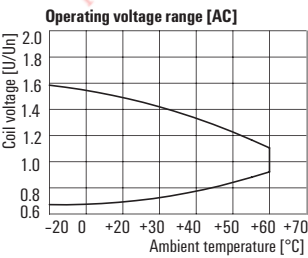
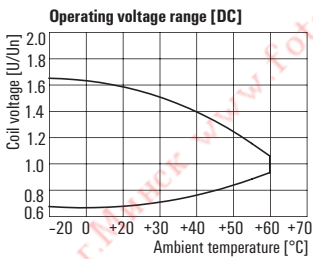
Circuit diagram



Technical data

Output	
Rated switching voltage / Continuous current	500 V AC / 16 A
Max. switching voltage, AC	500 V
Inrush current	80 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	2200 W @ 220 V / 8000 VA
Contact material	AgSnO2
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...60 °C
Humidity	35 % to 85 % relative humidity level
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	500 V
Impulse withstand voltage	6 kV (1.2/50 µs)
Dielectric strength input - output	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 5.5 mm
Overvoltage category	III
Pollution degree	3
Dimensions	
Flat blade connections (4.8 mm x 0.5 mm)	
Depth x width x height	mm 48 / 36 / 36
Note	

Applications



DRH DC relay
1 NO AC/DC coil
1 NC AC/DC coil

Type code	DRH			
Type	DRH			
Type of construction	173 1NO 174 1NC			
Coil voltage	012 12 V DC / 024 24 V DC 048 48 V DC / 110 110 V DC 220 220 V DC / 524 24 V AC 548 48 V AC / 615 115 V AC 730 230 V AC			
With LED and test lever	LT			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 120 mA	/ 60 mA	/ 30 mA	/ 13 mA	/ 6.7 mA
Power rating	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11 V DC	154 V / 22 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	red LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Ordering data					
1 NO contact Type	DRH173012LT	DRH173024LT	DRH173048LT	DRH173110LT	DRH173220LT
Order No.	1219840000	1219850000	1219860000	1219870000	1219880000
1 NC contact Type	DRH174012LT	DRH174024LT	DRH174048LT	DRH174110LT	DRH174220LT
Order No.	1219940000	1219950000	1219960000	1219970000	1219980000
Ordering data					
Test-button lock Type	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW
Order No.	7760056249	7760056249	7760056249	7760056249	7760056249
Note					

Ordering data

	24 V AC	48 V AC	115 V AC	230 V AC
Input				
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current AC / DC	101.7 mA /	50.5 mA /	21 mA /	10,6 mA /
Power rating	2.5 VA	2.5 VA	2.5 VA	2.5 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	38.4 V / 14.4 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.				
Status indicator	red LED	red LED	red LED	red LED
Output				
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Ordering data				
1 NO contact Type	DRH173524LT	DRH173548LT	DRH173615LT	DRH173730LT
Order No.	1219890000	1219910000	1219920000	1219930000
1 NC contact Type	DRH174524LT	DRH174548LT	DRH174615LT	DRH174730LT
Order No.	1219990000	1220010000	1220020000	1220030000
Ordering data				
Test-button lock Type	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW
Order No.	7760056249	7760056249	7760056249	7760056249
Note				

D-SERIES – relay modules

DRH DC relay

1 NO / 1 NC AC/DC coil

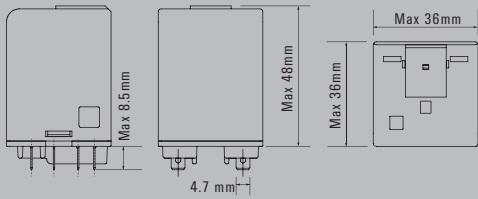
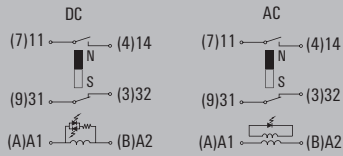
- Suitable for switching high DC loads
- With blowout magnet
- With LED and test button
- For switching high DC loads up to 3 A at 220 V DC



B

Circuit diagram

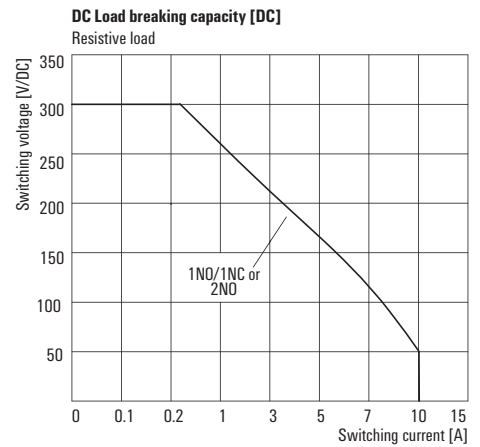
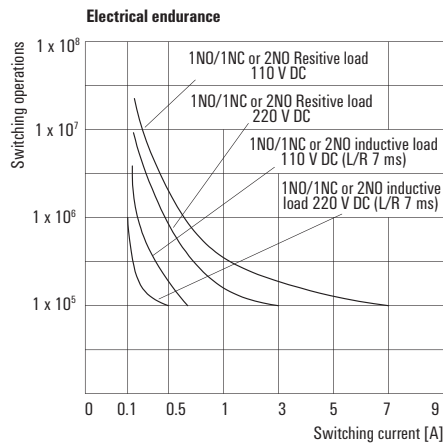
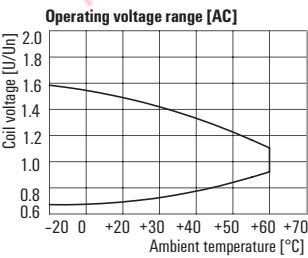
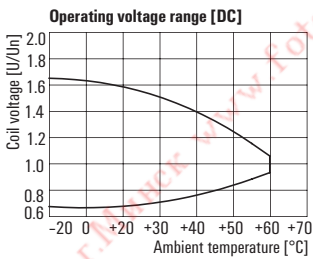
1NO/1NC



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 16 A
Max. switching voltage, AC	250 V
Inrush current	80 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	660 W @ 220 V / 4000 VA
Contact material	AgSnO2
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...60 °C
Humidity	35 % to 85 % relative humidity level
Approvals	CE, cURus, EAC
Insulation coordinates	
Rated voltage	500 V
Impulse withstand voltage	6 kV (1.2/50 µs)
Dielectric strength input - output	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	4 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 5.5 mm
Overtoltage category	III
Pollution degree	3
Dimensions	
Flat blade connections (4.8 mm x 0.5 mm)	
Depth x width x height	mm 48 / 36 / 36
Note	

Applications



DRH DC relay
1 NO / 1 NC AC/DC coil

Type code	DRH			
Type	DRH			
Type of construction	275 1NO/1NC			
	276 2NO			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	548 48 V AC / 615 115 V AC			
	730 230 V AC			
With LED and test lever	LT			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 120 mA	/ 60 mA	/ 30 mA	/ 13 mA	/ 6.7 mA
Power rating	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11 V DC	154 V / 22 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Ordering data					
1 NO / 1 NC contact	DRH275012LT	DRH275024LT	DRH275048LT	DRH275110LT	DRH275220LT
Type					
Order No.	1220040000	1220050000	1220060000	1220070000	1220080000
Type					
Order No.					
Ordering data					
Test-button lock					
Type	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW
Order No.	7760056249	7760056249	7760056249	7760056249	7760056249
Note					

Ordering data

	24 V AC	48 V AC	115 V AC	230 V AC
Input				
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current AC / DC	101.7 mA /	50.5 mA /	21 mA /	10,6 mA /
Power rating	2.5 VA	2.5 VA	2.5 VA	2.5 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	38.4 V / 14.4 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.				
Status indicator	red LED	red LED	red LED	red LED
Output				
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Ordering data				
1 NO / 1 NC contact	DRH275524LT	DRH275548LT	DRH275615LT	DRH275730LT
Type				
Order No.	1220090000	1220110000	1220120000	1220130000
Type				
Order No.				
Ordering data				
Test-button lock				
Type	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW	Test Lever Block DRH/DRW
Order No.	7760056249	7760056249	7760056249	7760056249
Note				

D-SERIES – relay modules

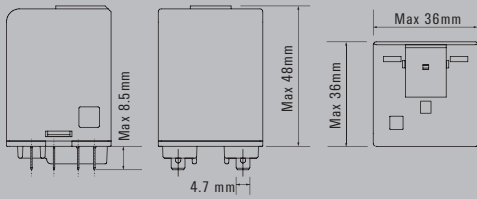
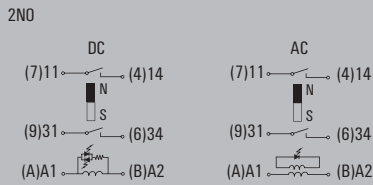
DRH DC relay
2 NO AC/DC coil

- Suitable for switching high DC loads
- With blowout magnet
- With LED and test button
- For switching high DC loads up to 3 A at 220 V DC



B

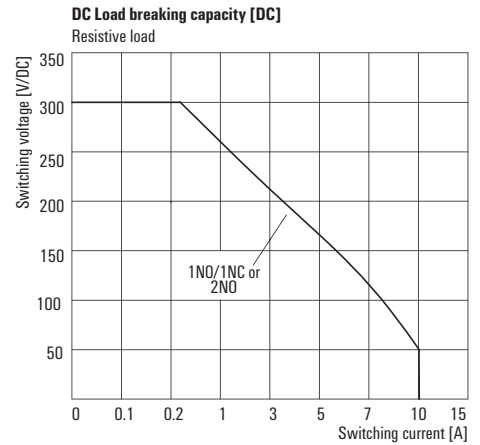
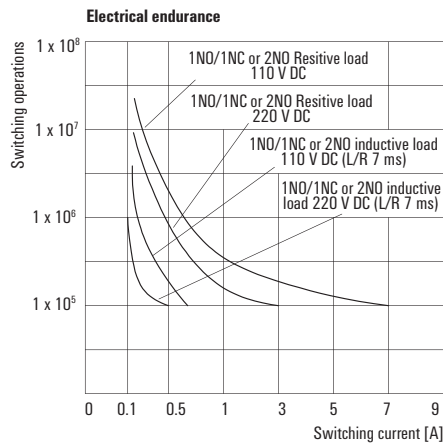
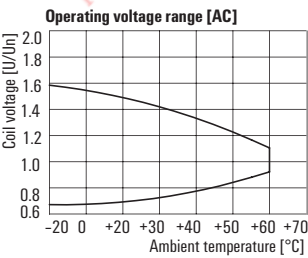
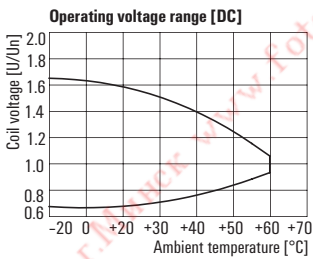
Circuit diagram



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 16 A
Max. switching voltage, AC	250 V
Inrush current	80 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	660 W @ 220 V / 4000 VA
Contact material	AgSnO2
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...60 °C
Humidity	35 % to 85 % relative humidity level
Approvals	CE, cURus, EAC
Insulation coordinates	
Rated voltage	500 V
Impulse withstand voltage	6 kV (1.2/50 µs)
Dielectric strength input - output	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	4 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 5.5 mm
Overvoltage category	III
Pollution degree	3
Dimensions	
Flat blade connections (4.8 mm x 0.5 mm)	
Depth x width x height	mm 48 / 36 / 36
Note	

Applications



DRH DC relay
2 NO AC/DC coil

Type code	DRH			
Type	DRH			
Type of construction	275 1NO/1NC			
	276 2NO			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	548 48 V AC / 615 115 V AC			
	730 230 V AC			
With LED and test lever	LT			

Ordering data

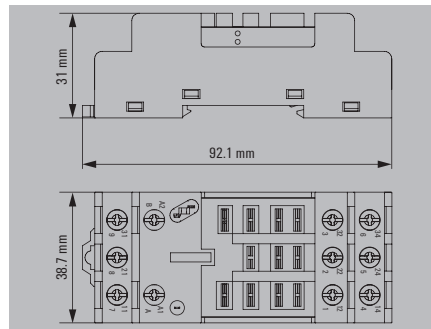
	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 120 mA	/ 60 mA	/ 30 mA	/ 13 mA	/ 6.7 mA
Power rating	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11 V DC	154 V / 22 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Ordering data					
2 NO contact	Type DRH276012LT	Type DRH276024LT	Type DRH276048LT	Type DRH276110LT	Type DRH276220LT
Order No.	1220140000	1220150000	1220170000	1220180000	1220190000
Type					
Order No.					
Ordering data					
Test-button lock	Type Test Lever Block DRH/DRW	Type Test Lever Block DRH/DRW	Type Test Lever Block DRH/DRW	Type Test Lever Block DRH/DRW	Type Test Lever Block DRH/DRW
Order No.	7760056249	7760056249	7760056249	7760056249	7760056249
Note					

Ordering data

	24 V AC	48 V AC	115 V AC	230 V AC
Input				
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current AC / DC	101.7 mA /	50.5 mA /	21 mA /	10,6 mA /
Power rating	2.5 VA	2.5 VA	2.5 VA	2.5 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	38.4 V / 14.4 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.				
Status indicator	red LED	red LED	red LED	red LED
Output				
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Ordering data				
2 NO contact	Type DRH276524LT	Type DRH276548LT	Type DRH276615LT	Type DRH276730LT
Order No.	1220200000	1220210000	1220220000	1220230000
Type				
Order No.				
Ordering data				
Test-button lock	Type Test Lever Block DRH/DRW	Type Test Lever Block DRH/DRW	Type Test Lever Block DRH/DRW	Type Test Lever Block DRH/DRW
Order No.	7760056249	7760056249	7760056249	7760056249
Note				

D-SERIES – relay modules

Accessories for DRH and DRW relays

Socket module with
leaf spring connection, 3 CO contacts

Technical data

Output	
Rated switching voltage	400 V AC
Max. switching voltage, AC	400 V
Continuous current	16 A
Rated data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...60 °C
Approvals	CE, cURus
Insulation coordination	
Protection degree	IP10
Creepage and clearance distance input - output	≥ 3 mm
Dielectric strength input - output	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	4 kV _{eff} / 1 min
Impulse withstand voltage	7.3 kV (1.2/50 µs)
Connection data	
Clamping range (nominal / min. / max.)	/ 0.5 / 4 mm ²
Tightening torque	0.5...1.2 Nm
Stripping length, rated connection	8 mm
Note	

Ordering data

Type	Qty.	Order No.
SPW ECO 3CO	10	1220250000
Note	Socket, DIN rail mounted	

Accessories

Type	Qty.	Order No.
LED module / protection modules		
RC element 6 - 230 V AC	10	1174670000
Free-wheeling diode 6 - 230 V DC	10	1174650000
Retaining clip		
Metal retaining clip	10	1220260000
Screwdriver		
Screwdriver, insulated PH2 SlimLine	1	1274720000
Screwdriver, insulated PH2	1	9008580000
Screwdriver PH2	1	9008490000

Note

г. Минск www.fotorele.net www.tiristor.by email minsk17@tut.by тел. +375447584780

D-SERIES – relay modules

DRR power relay

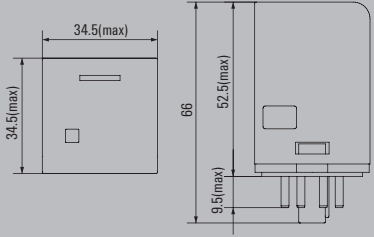
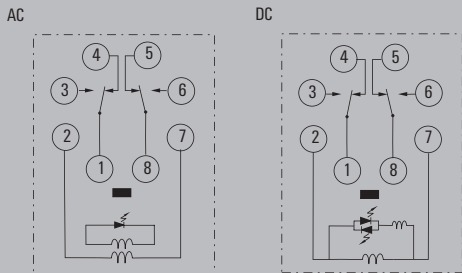
2 CO AC/DC coil

- 2,500 VA switching capacity
- 8-pole relay



B

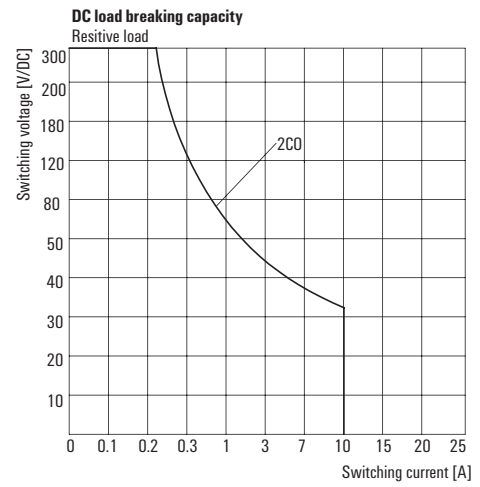
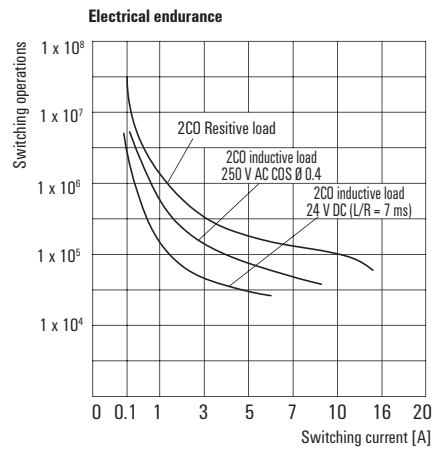
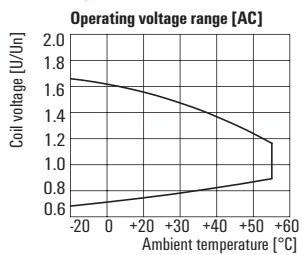
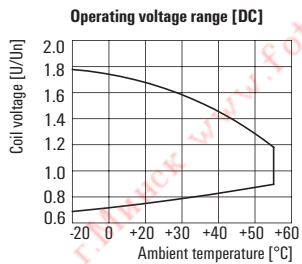
Circuit diagram



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-25 °C...55 °C
Storage temperature	-25 °C...55 °C
Humidity	5...85 % rel. humidity, no condensation
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	4 kV (1.2/50 µs)
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	1.2 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 3 mm
Overvoltage category	III
Pollution degree	3
Dimensions	
Depth x width x height	mm 66 / 34.5 / 34.5
Plug-in connection	
Depth x width x height	mm 66 / 34.5 / 34.5
Note	

Applications



**DRR power relay
2 CO AC/DC coil**

Type code	DRR			
Type	DRR			
Type of construction	270	2 change over contacts		
Coil voltage	012	12 V DC / 024	24 V DC	
	048	48 V DC / 110	110 V DC	
	220	220 V DC / 524	24 V AC	
	615	115 V AC / 730	230 V AC	
LED indicator	L			

Ordering data

	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO	220 V DC 2CO
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 125 mA	/ 55.8 mA	/ 29.2 mA	/ 15 mA	/ 7.6 mA
Power rating	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC	165 V / 33 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 30 ms	< 30 ms	< 30 ms	< 30 ms	< 30 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms

Ordering data					
Type	DRR270012L	DRR270024L	DRR270048L	DRR270110L	DRR270220L
Order No.	1133360000	1133370000	1133380000	1133390000	1133400000
Type					
Order No.					
Note					

Ordering data

	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	130 mA (50 Hz), 116 mA (60 Hz) /	29.8 mA (50 Hz), 25.4 mA (60 Hz) /	14.9 mA (50 Hz), 12.7 mA (60 Hz) /
Power rating	2.7 VA	2.7 VA	2.7 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.			
Status indicator	red LED	red LED	red LED
Output			
Switch-on delay	< 30 ms	< 30 ms	< 30 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms

Ordering data			
Type	DRR270524L	DRR270615L	DRR270730L
Order No.	1133760000	1133780000	1133800000
Type			
Order No.			
Note			

D-SERIES – relay modules

DRR power relay

3 CO AC/DC coil

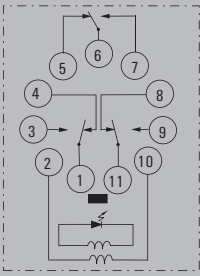
- 2,500 VA switching capacity
- 11-pole relay



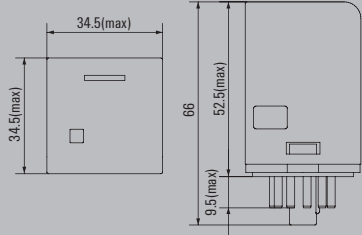
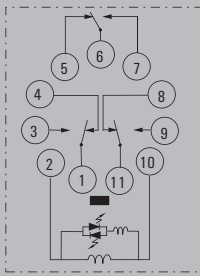
Circuit diagram

DRR310

AC



DC

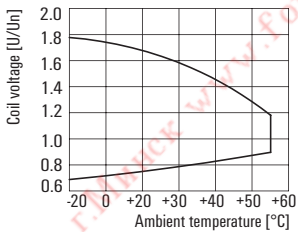


Technical data

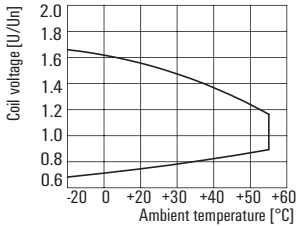
Output	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-25 °C...55 °C
Storage temperature	-25 °C...55 °C
Humidity	5...85 % rel. humidity, no condensation
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	4 kV (1.2/50 µs)
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	1.2 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 3 mm
Overvoltage category	III
Pollution degree	3
Dimensions	
Depth x width x height	mm 66 / 34.5 / 9.5
Plug-in connection	
Depth x width x height	mm 66 / 34.5 / 9.5
Note	

Applications

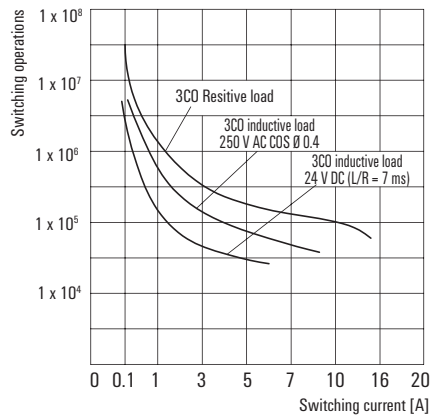
Operating voltage range [DC]



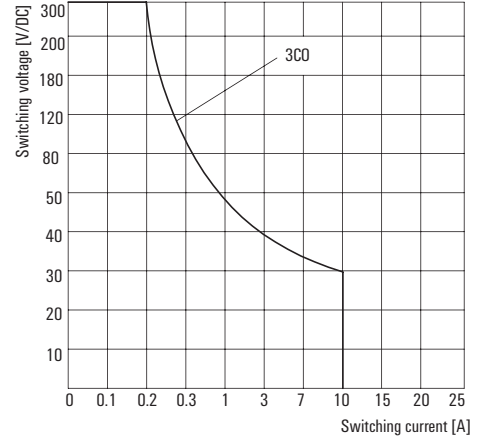
Operating voltage range [AC]



Electrical endurance



DC load breaking capacity
Resistive load



**DRR power relay
3 CO AC/DC coil**

Type code	DRR			
Type	DRR			
Type of construction	370	3 change over contacts		
Coil voltage	012	12 V DC / 024	24 V DC	
	048	48 V DC / 110	110 V DC	
	220	220 V DC / 524	24 V AC	
	615	115 V AC / 730	230 V AC	
LED indicator	L			

Ordering data

	12 V DC 3CO	24 V DC 3CO	48 V DC 3CO	110 V DC 3CO	220 V DC 3CO
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 125 mA	/ 55.8 mA	/ 29.2 mA	/ 15 mA	/ 7.6 mA
Power rating	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC	165 V / 33 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 30 ms	< 30 ms	< 30 ms	< 30 ms	< 30 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms

Ordering data					
Type	DRR370012L	DRR370024L	DRR370048L	DRR370110L	DRR370220L
Order No.	1133410000	1133420000	1133430000	1133440000	1133560000
Type					
Order No.					
Note					

Ordering data

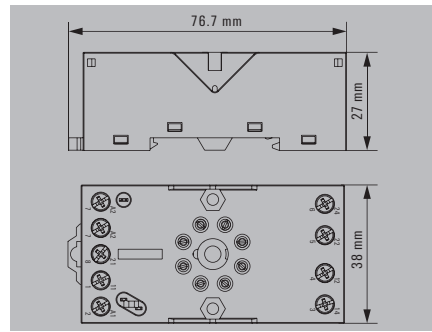
	24 V AC 3CO	115 V AC 3CO	230 V AC 3CO
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	130 mA (50 Hz), 116 mA (60 Hz) /	29.8 mA (50 Hz), 25.4 mA (60 Hz) /	14.9 mA (50 Hz), 12.7 mA (60 Hz) /
Power rating	2.7 VA	2.7 VA	2.7 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Pull-in/drop-out current, typ.			
Status indicator	red LED	red LED	red LED
Output			
Switch-on delay	< 30 ms	< 30 ms	< 30 ms
Switch-off delay	< 20 ms	< 20 ms	< 20 ms

Ordering data			
Type	DRR370524L	DRR370615L	DRR370730L
Order No.	1133810000	1133820000	1133830000
Type			
Order No.			
Note			

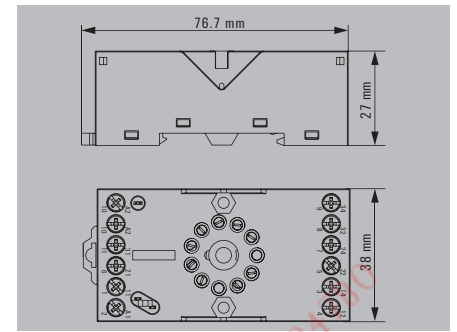
D-SERIES – relay modules

Accessories for DRR relays

Socket module with leaf spring connection, 2 CO contacts



Socket module with leaf spring connection, 3 CO contacts



Technical data

Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	300 V
Continuous current	12 A
Rated data	
Ambient temperature (operational)	-40 °C...65 °C
Storage temperature	-40 °C...85 °C
Approvals	CE; cURus; EAC
Insulation coordination	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 4 mm
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2.21 kV _{eff} /1 min
Impulse withstand voltage	4.8 kV (1.2/50 µs)
Connection data	
Clamping range (nominal / min. / max.)	/ 0.5 / 2.5 mm ²
Tightening torque	0.5...1 Nm
Stripping length, rated connection	7 mm
Note	

Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	300 V
Continuous current	12 A
Rated data	
Ambient temperature (operational)	-40 °C...65 °C
Storage temperature	-40 °C...85 °C
Approvals	CE; cURus; EAC
Insulation coordination	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 4 mm
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2.21 kV _{eff} /1 min
Impulse withstand voltage	4.8 kV (1.2/50 µs)
Connection data	
Clamping range (nominal / min. / max.)	/ 0.5 / 2.5 mm ²
Tightening torque	0.5...1 Nm
Stripping length, rated connection	7 mm
Note	

Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	300 V
Continuous current	12 A
Rated data	
Ambient temperature (operational)	-40 °C...65 °C
Storage temperature	-40 °C...85 °C
Approvals	CE; cURus; EAC
Insulation coordination	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 4 mm
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2.21 kV _{eff} /1 min
Impulse withstand voltage	4.8 kV (1.2/50 µs)
Connection data	
Clamping range (nominal / min. / max.)	/ 0.5 / 2.5 mm ²
Tightening torque	0.5...1 Nm
Stripping length, rated connection	7 mm
Note	

Ordering data

	Socket, DIN rail mounted
Note	

Type	Qty.	Order No.
SRD ECO 2CO	10	1132810000

Type	Qty.	Order No.
SRD ECO 3CO	10	1132820000

Accessories

LED module / protection modules	
RC element 6 - 230 V AC	
Free-wheeling diode 6 - 230 V DC	
Retaining clip	Metal retaining clip
Screwdriver	Screwdriver, insulated PH1 SlimLine Screwdriver, insulated PH1 Screwdriver PH1

Type	Qty.	Order No.
RIM 5 6/230VAC	10	1174670000
RIM 5 6/230VDC	10	1174650000
DRR CLIP M	10	1134160000
SDIK PH1 SL	1	1274710000
SDIK PH1	1	9008570000
SDK PH1	1	9008480000

Type	Qty.	Order No.
RIM 5 6/230VAC	10	1174670000
RIM 5 6/230VDC	10	1174650000
DRR CLIP M	10	1134160000
SDIK PH1 SL	1	1274710000
SDIK PH1	1	9008570000
SDK PH1	1	9008480000

Note	
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Note	
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Note	
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г. Минск www.fotorele.net www.tiristor.by email minsk17@tut.by тел. +375447584780

D-SERIES – relay modules

PWR high-power relay

1 NO AC/DC coil

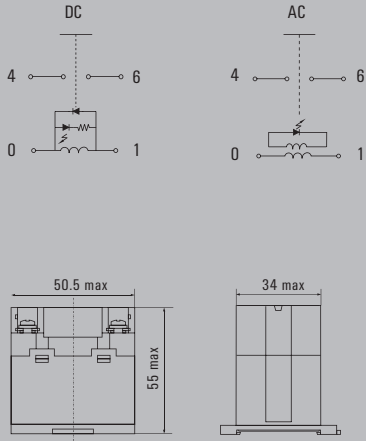
- Max. load current: 30 A



B

Circuit diagram

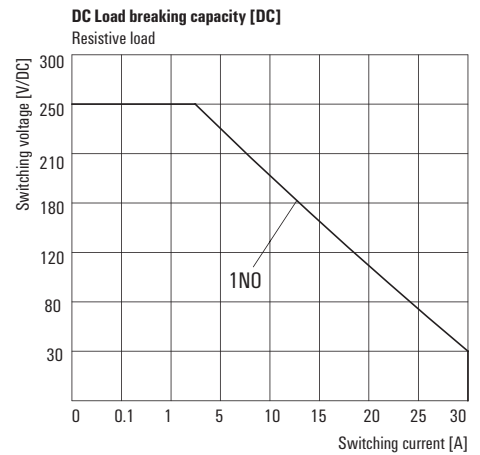
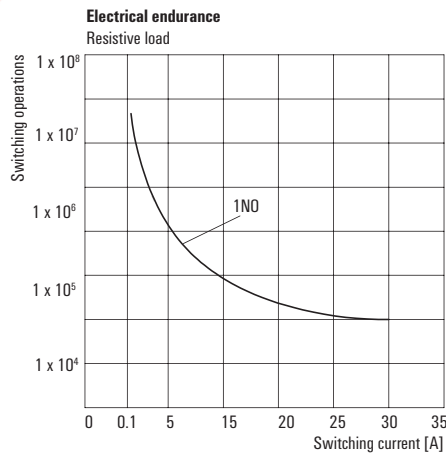
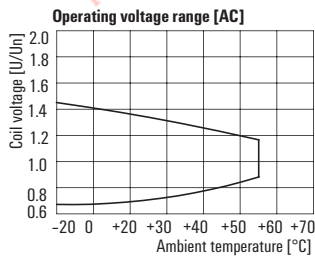
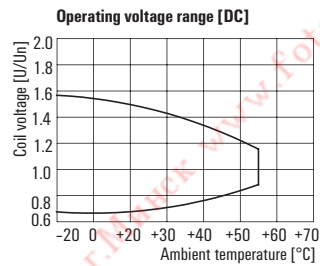
1NO



Technical data

Output	
Rated switching voltage / Continuous current	277 V AC / 30 A
Max. switching voltage, AC	277 V
Inrush current	150 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	720 W @ 24 V / 8300 VA
Contact material	AgSnO2
Mechanical service life	
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-25 °C...55 °C
Storage temperature	-25 °C...55 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	6 kV (1.2/50 µs)
Dielectric strength input - output	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 5.5 mm
Overvoltage category	III
Pollution degree	3
Dimensions	
Depth x width x height	mm 55 / 50.5 / 34
Note	

Applications



**PWR high-power relay
1 NO AC/DC coil**

Type code	PWR			
Type	PWR			
Type of construction and mounting	173 1N.O. contact, DIN-rail mounting			
Coil voltage	006	6 V DC / 012	12 V DC	
	024	24 V DC / 048	48 V DC	
	110	110 V DC / 220	220 V DC	
	524	24 V AC / 548	48 V AC	
	615	115 V AC / 730	230 V AC	
	880	380 V AC		
LED indicator	L with LED			

Ordering data

	12 V DC 1 NO	24 V DC 1 NO	48 V DC 1 NO	110 V DC 1 NO	220 V DC 1 NO
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 160 mA	/ 79.2 mA	/ 39.3 mA	/ 17.3 mA	/ 8.7 mA
Power rating	1.9 W	1.9 W	1.9 W	1.9 W	1.9 W
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC	165 V / 33 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 10 ms	< 10 ms	< 10 ms	< 10 ms	< 10 ms

Ordering data						
Rail mounting	Type	PWR173012L	PWR173024L	PWR173048L	PWR173110L	PWR173220L
	Order No.	1219470000	1219480000	1219490000	1219510000	1219520000
	Type					
	Order No.					
Note						

Ordering data

	24 V AC 1 NO	48 V AC 1 NO	115 V AC 1 NO	230 V AC 1 NO	380 V AC 1 NO
Input					
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC	380 V AC
Rated current AC / DC	87.3 mA /	43.6 mA /	22.1 mA /	11 mA /	6.1 mA /
Power rating	2.5 VA	2.5 VA	2.5 VA	2.5 VA	2.5 VA
Pull-in/drop-out voltage, typ.	18 V / 3.6 V AC	36 V / 7.2 V AC	86.3 V / 17.3 V AC	172.5 V / 34.5 V AC	285 V / 57 V AC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 20 ms	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Switch-off delay	< 10 ms	< 10 ms	< 10 ms	< 10 ms	< 10 ms

Ordering data						
Rail mounting	Type	PWR173524L	PWR173548L	PWR173615L	PWR173730L	PWR173880L
	Order No.	1219090000	1219120000	1219130000	1219140000	1219150000
	Type					
	Order No.					
Note						

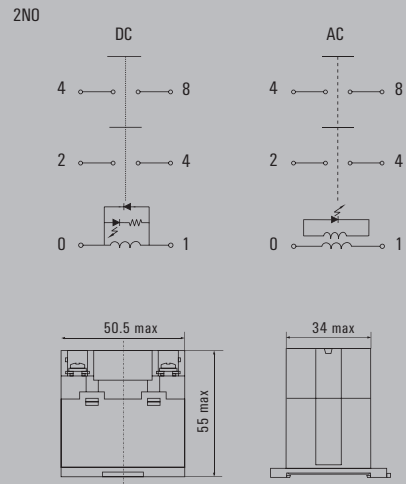
PWR high-power relay
2 NO AC/DC coil

- Max. load current: 25 A



B

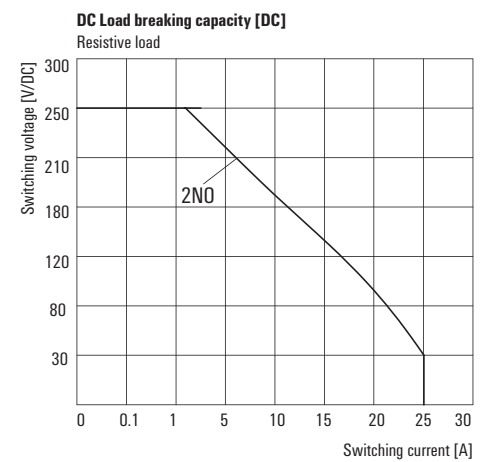
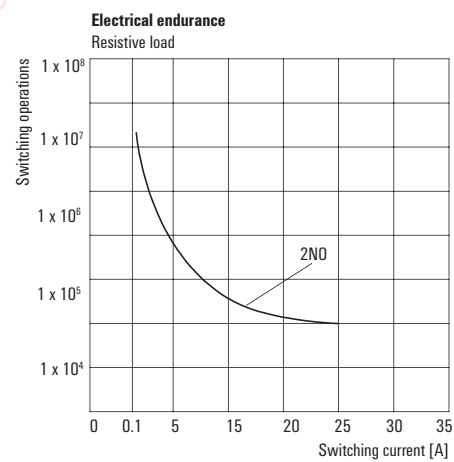
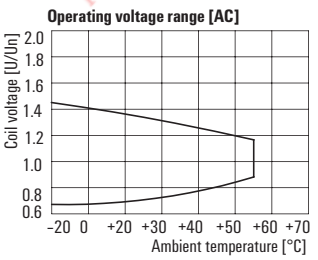
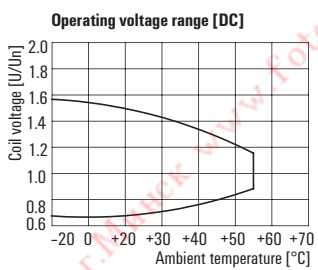
Circuit diagram



Technical data

Output	
Rated switching voltage / Continuous current	277 V AC / 25 A
Max. switching voltage, AC	277 V
Inrush current	120 A / 50 ms
Min. switching power	100 mA @ 12 V
DC / AC Switching capacity (resistive), max.	600 W @ 24 V / 6900 VA
Contact material	AgSnO2
Mechanical service life	
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-25 °C...55 °C
Storage temperature	-25 °C...55 °C
Humidity	35...85 % rel. humidity, no condensation
Approvals	CE, cURus; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	6 kV (1.2/50 µs)
Dielectric strength input - output	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 5.5 mm
Overvoltage category	III
Pollution degree	3
Dimensions	
Depth x width x height	mm 55 / 50.5 / 34
Note	

Applications



**PWR high-power relay
2 NO AC/DC coil**

Type code	PWR			
Type	PWR			
Type of construction and mounting	276 2N.O. contact, DIN-rail mounting			
Coil voltage	006	6 V DC / 012	12 V DC	
	024	24 V DC / 048	48 V DC	
	110	110 V DC / 220	220 V DC	
	524	24 V AC / 548	48 V AC	
	615	115 V AC / 730	230 V AC	
	880	380 V AC		
LED indicator	L with LED			

Ordering data

	12 V DC 2 NO	24 V DC 2 NO	48 V DC 2 NO	110 V DC 2 NO	220 V DC 2 NO
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 160 mA	/ 79.2 mA	/ 39.3 mA	/ 17.3 mA	/ 8.7 mA
Power rating	1.9 W	1.9 W	1.9 W	1.9 W	1.9 W
Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC	165 V / 33 V DC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 30 ms	< 30 ms	< 30 ms	< 30 ms	< 30 ms
Switch-off delay	< 30 ms	< 30 ms	< 30 ms	< 30 ms	< 30 ms

Ordering data					
Rail mounting	Type	PWR276012L	PWR276024L	PWR276048L	PWR276110L
	Order No.	1219540000	1219550000	1219560000	1219570000
	Type				
	Order No.				
Note					

Ordering data

	24 V AC 2 NO	48 V AC 2 NO	115 V AC 2 NO	230 V AC 2 NO	380 V AC 2 NO
Input					
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC	380 V AC
Rated current AC / DC	87.3 mA /	43.6 mA /	22.1 mA /	11 mA /	6.1 mA /
Power rating	2.5 VA	2.5 VA	2.5 VA	2.5 VA	2.5 VA
Pull-in/drop-out voltage, typ.	18 V / 3.6 V AC	36 V / 7.2 V AC	86.3 V / 17.3 V AC	172.5 V / 34.5 V AC	285 V / 57 V AC
Pull-in/drop-out current, typ.					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Output					
Switch-on delay	< 30 ms	< 30 ms	< 30 ms	< 30 ms	< 30 ms
Switch-off delay	< 30 ms	< 30 ms	< 30 ms	< 30 ms	< 30 ms

Ordering data					
Rail mounting	Type	PWR276524L	PWR276548L	PWR276615L	PWR276730L
	Order No.	1219160000	1219170000	1219180000	1219190000
	Type				
	Order No.				
Note					

Coupling modules – the industrial standard

Relay module with 1 to 4 CO contacts

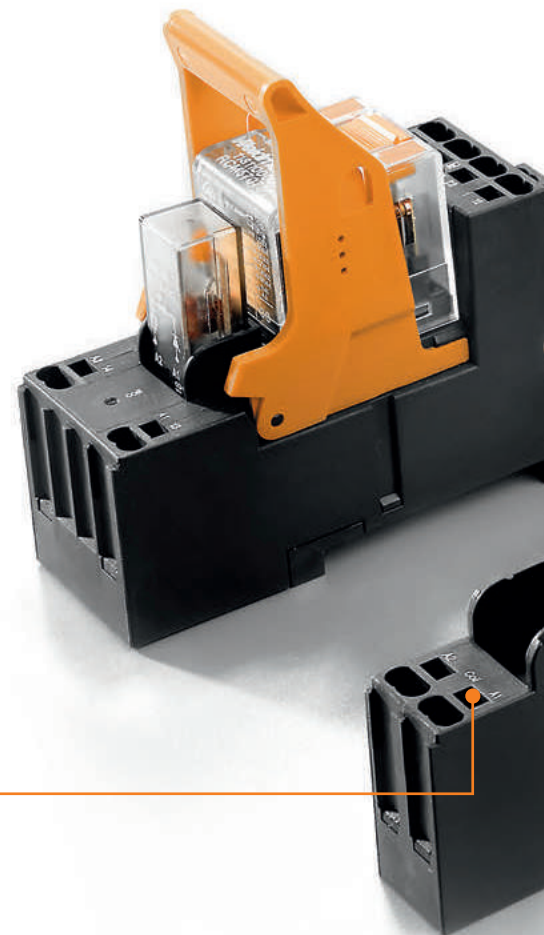


B

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.

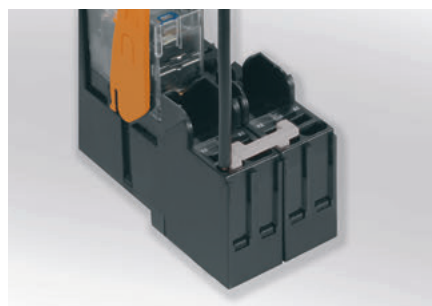
Our innovative relay bases with PUSH IN connection systems are available for both the RCI/RCL and RCM product lines. PUSH IN technology is safe and easy to use and it allows you to reduce costs with less wiring time. The relay modules are designed for industrial applications and feature sturdy relay 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 reduces the number of products required.



Saves time

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



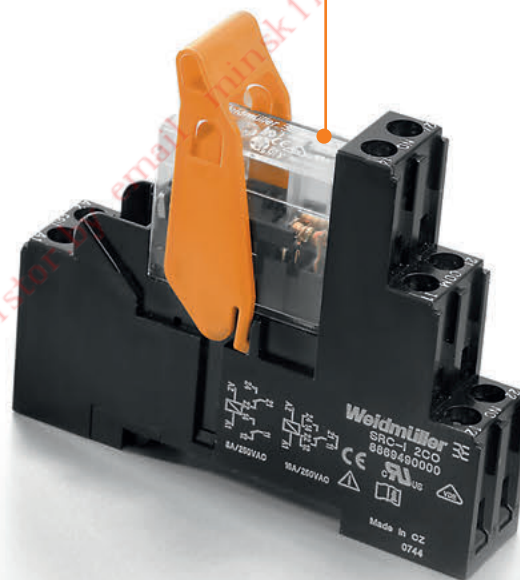
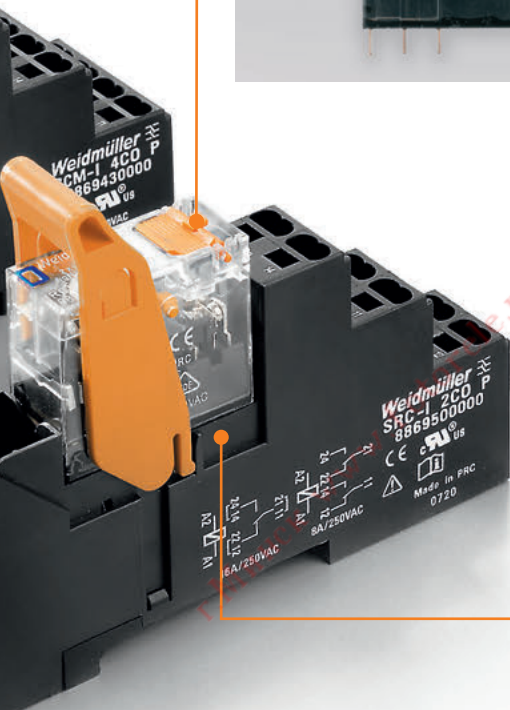
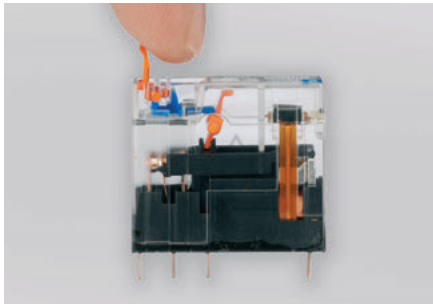
Customised

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



Simple

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



Safe

The heavy-duty industrial pins ensure a reliable connection.

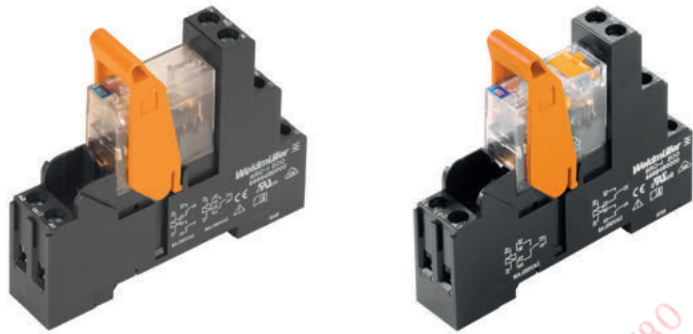


RIDERSERIES – relay modules

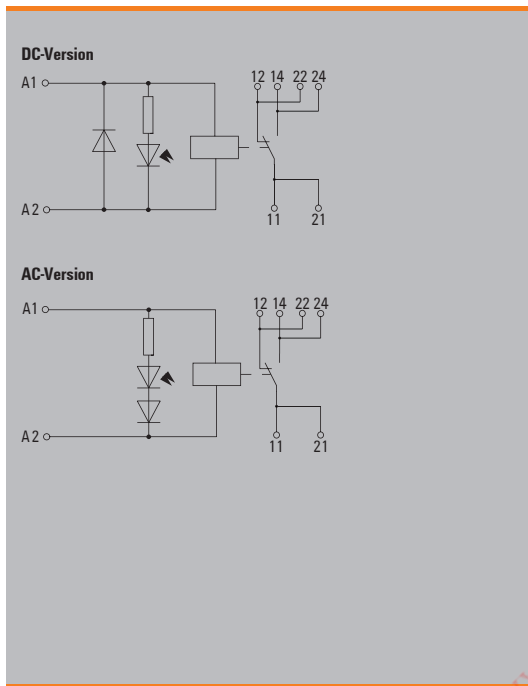
RCI KIT with screw connection

1 CO contact

- 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)



B



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 16 A ¹⁾
Max. switching voltage, AC	400 V
Inrush current	30 A / 4 s
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	384 W @ 24 V / 4000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, DNVGL; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input – output	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input – output	≥ 8 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 1 / 2.5
Depth x width x height	mm 70.2 / 15.8 / 77
Note	
1) For full continuous current (16 A), relay connections 11 - 21, 12 - 22 and 14 - 24 must be bridged.	

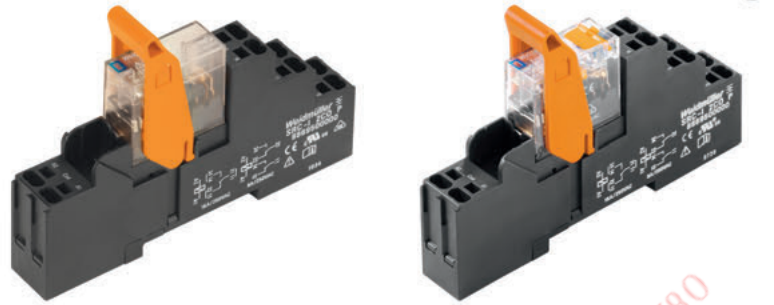
Ordering data

	24 V DC 1CO		24 V AC 1CO		115 V AC 1CO		230 V AC 1CO		
Input									
Rated control voltage	24 V DC		24 V AC		115 V AC		230 V AC		
Rated current AC / DC	/ 16.7 mA		31.6 mA /		7 mA /		3.5 mA /		
Power rating	420 mW		0.75 VA		0.8 VA		0.8 VA		
Pull-in/drop-out voltage, typ.	16.8 V / 2.4 V DC		18 V / 3.6 V AC		86.3 V / 17.3 V AC		172.5 V / 34.5 V AC		
Status indicator	Green LED		red LED		red LED		red LED		
Protective circuit	Free-wheel diode								
Output									
Switch-on delay	≤ 8 ms		≤ 8 ms		≤ 8 ms		≤ 8 ms		
Switch-off delay	≤ 6 ms		≤ 6 ms		≤ 6 ms		≤ 6 ms		
Ordering data									
with test button	Type	RCIKIT 24VDC 1CO LD/PB	RCIKIT 24VAC 1CO LD		RCIKIT 115VAC 1CO LD/PB		RCIKIT 230VAC 1CO LD/PB		
	Order No.	8881580000	8871010000		8897060000		8881600000		
without test button	Type	RCIKIT 24VDC 1CO LD	RCIKIT 24VAC 1CO LD/PB		RCIKIT 115VAC 1CO LD		RCIKIT 230VAC 1CO LD		
	Order No.	8871000000	8881590000		8897090000		8871020000		
Ordering data Spare relay									
	Type	w. test button	w.o. test button	w. test button	w.o. test button	w. test button	w.o. test button	w. test button	
	Order No.	RCI374AC4	RCI314AC4	RCI374R24	RCI314R24	RCI374S15	RCI314S15	RCI374T30	RCI314T30
		8870250000	8870100000	8870280000	8870130000	8870290000	8870140000	8870300000	8870150000
Note									

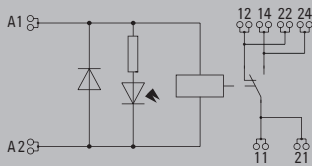
RCI-KITP with PUSH IN connection

1 CO contact

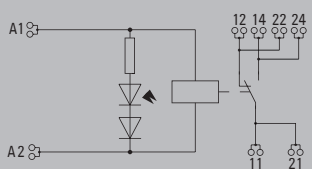
- 4000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



DC-Version



AC-Version



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 16 A ¹⁾
Max. switching voltage, AC	400 V
Inrush current	30 A / 4 s
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	384 W @ 24 V / 4000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, DNVGL; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 8 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.75 / 1.5
Depth x width x height	mm 69.6 / 15.8 / 98
Note	
1) For full continuous current (16 A), relay connections 11 - 21, 12 - 22 and 14 - 24 must be bridged.	

Ordering data

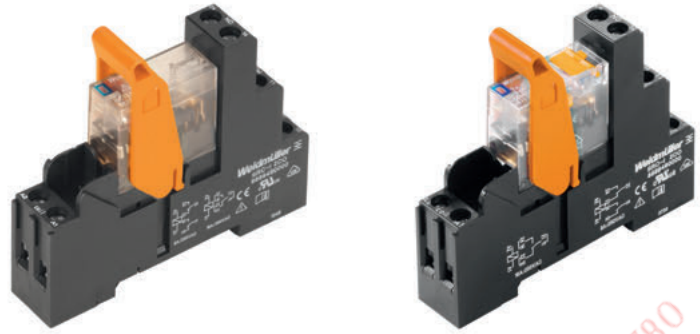
Input		24 V DC 1CO	24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
Rated control voltage		24 V DC	24 V AC	115 V AC	230 V AC
Rated current AC / DC		/ 16.7 mA	31.6 mA /	7 mA /	3.5 mA /
Power rating		420 mW	0.75 VA	0.8 VA	0.8 VA
Pull-in/drop-out voltage, typ.		16.8 V / 2.4 V DC	18 V / 3.6 V AC	86.3 V / 17.3 V AC	172.5 V / 34.5 V AC
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Free-wheel diode			
Output					
Switch-on delay		≤ 8 ms	≤ 8 ms	≤ 8 ms	≤ 8 ms
Switch-off delay		≤ 6 ms	≤ 6 ms	≤ 6 ms	≤ 6 ms
Ordering data					
with 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
without 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
	Type	RCI374R24	RCI314R24	RCI374S15	RCI314S15
	Order No.	8870280000	8870130000	8870290000	8870150000
Note					

RIDERSERIES – relay modules

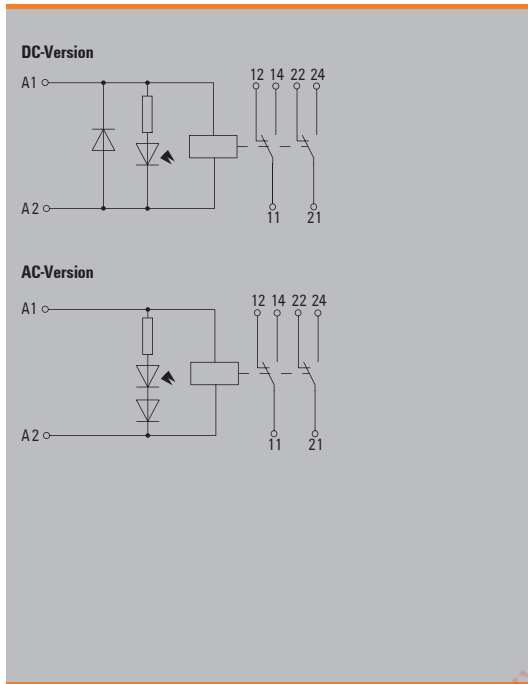
RCI KIT with screw connection

2 CO contacts

- 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)



B



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 8 A
Max. switching voltage, AC	400 V
Inrush current	15 A / 4 s
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	192 W @ 24 V / 2000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, DNVGL; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 8 mm
Overtoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 1 / 2.5
Depth x width x height	mm 70.2 / 15.8 / 77
Screw connection	
Note	

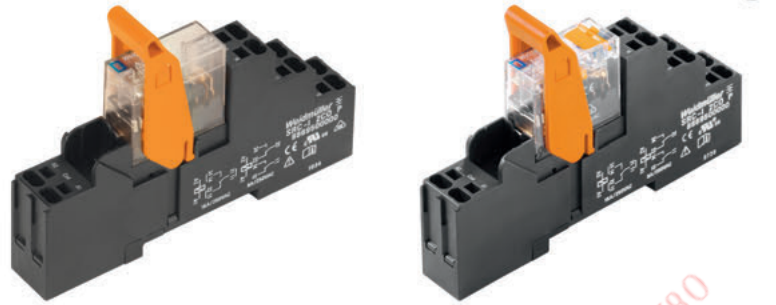
Ordering data

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 / DC		/ 16.7 mA	31.6 mA /	7 mA /	3.5 mA /
Power rating		420 mW	0.75 VA	0.8 VA	0.8 VA
Pull-in/drop-out voltage, typ.		16.8 V / 2.4 V DC	18 V / 3.6 V AC	86.3 V / 17.3 V AC	172.5 V / 34.5 V AC
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Free-wheel diode			
Output					
Switch-on delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Switch-off delay		≤ 6 ms	≤ 6 ms	≤ 6 ms	≤ 6 ms
Ordering data					
with 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
without test button	Type	RCIKIT 24VDC 2CO LD	RCIKIT 24VAC 2CO LD	RCIKIT 115VAC 2CO LD	RCIKIT 230VAC 2CO LD
	Order No.	8871030000	8871040000	8897100000	8871050000
Ordering data					
Spare relay		w. test button	w.o. test button	w. test button	w.o. test button
	Type	RCI484AC4	RCI424AC4	RCI484S15	RCI424S15
	Order No.	8870320000	8870180000	8870360000	8870220000
	Type	RCI484T30	RCI424T30	RCI484S15	RCI424S15
	Order No.	8870370000	8870230000	8870360000	8870220000
Note					

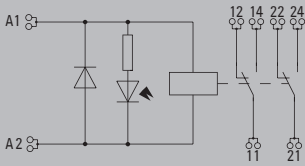
RCI-KITP with PUSH IN connection

2 CO contacts

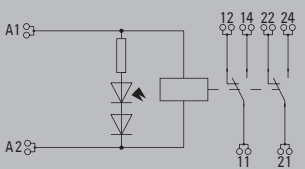
- 2000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



DC-Version



AC-Version



Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 8 A
Max. switching voltage, AC	400 V
Inrush current	15 A / 4 s
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	192 W @ 24 V / 2000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, DNVGL; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 8 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.75 / 1.5
Depth x width x height	mm 69.6 / 15.8 / 98
Note	

Ordering data

		24 V DC 2CO		24 V AC 2CO		115 V AC 2CO		230 V AC 2CO	
Input		24 V DC		24 V AC		115 V AC		230 V AC	
Rated control voltage		24 V DC		24 V AC		115 V AC		230 V AC	
Rated current AC / DC		/ 16.7 mA		31.6 mA /		7 mA /		3.5 mA /	
Power rating		420 mW		0.75 VA		0.8 VA		0.8 VA	
Pull-in/drop-out voltage, typ.		16.8 V / 2.4 V DC		18 V / 3.6 V AC		86.3 V / 17.3 V AC		172.5 V / 34.5 V AC	
Status indicator		Green LED		red LED		red LED		red LED	
Protective circuit		Free-wheel diode							
Output		≤ 10 ms		≤ 10 ms		≤ 10 ms		≤ 10 ms	
Switch-on delay		≤ 10 ms		≤ 10 ms		≤ 10 ms		≤ 10 ms	
Switch-off delay		≤ 6 ms		≤ 6 ms		≤ 6 ms		≤ 6 ms	
Ordering data									
with 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	
without 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	Type	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
	Order No.	RCI484AC4	RCI424AC4	RCI484R24	RCI424R24	RCI484S15	RCI424S15	RCI484T30	RCI424T30
		8870320000	8870180000	8870350000	8870210000	8870360000	8870220000	8870370000	8870230000
Note									

RCI relay

1 CO contact 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)

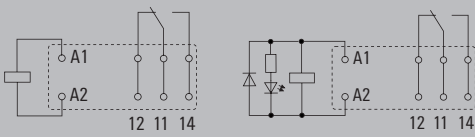


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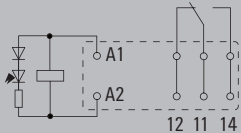
Circuit diagram

View on solder pins

DC coil LED + Diode



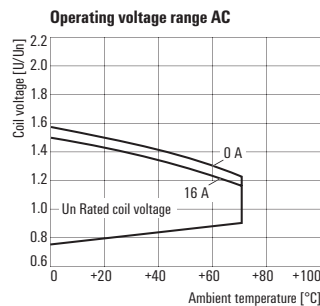
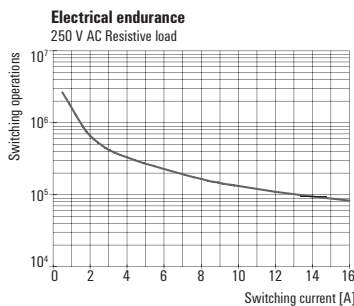
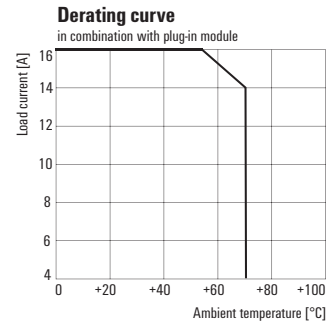
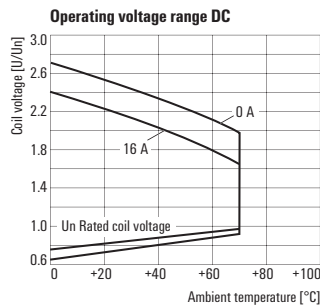
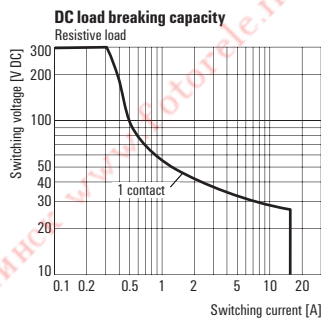
AC coil LED



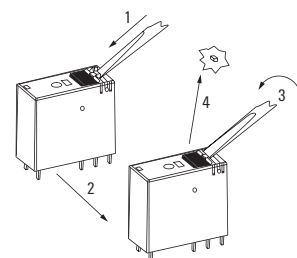
Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 16 A
Max. switching voltage, AC	400 V
Inrush current	30 A / 4 s
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	384 W @ 24 V / 4000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, CSA, cURus, EAC, VDE
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 8 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Depth x width x height	mm 25.6 / 13 / 29
Plug-in connection	
Note	

Applications



Removal of snap lock



RCI relay 1 CO contact 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
Rated current AC / DC		/ 33.3 mA	/ 16.7 mA	/ 8.7 mA	/ 4.1 mA
Power rating		400 mW	400 mW	400 mW	400 mW
Pull-in/drop-out voltage, typ.		8.4 V / 1.2 V DC	16.8 V / 2.4 V DC	33.6 V / 4.8 V DC	77 V / 11 V DC
Output					
Switch-on delay		≤ 8 ms	≤ 8 ms	≤ 8 ms	≤ 8 ms
Switch-off delay		≤ 6 ms	≤ 6 ms	≤ 6 ms	≤ 6 ms
Ordering data					
Standard	Type	RCI314012	RCI314024	RCI314048	RCI314110
	Order No.	886980000	886981000	886982000	886983000
with test button	Type	RCI374012	RCI374024		
	Order No.	886995000	886996000		
with LED + freewheel diode	Type	RCI314AB2	RCI314AC4	RCI314AE8	RCI314BB0
	Order No.	887009000	887010000	887011000	887012000
with test button + LED + Free-wheel diode	Type	RCI374AB2	RCI374AC4	RCI374AE8	RCI374BB0
	Order No.	887024000	887025000	887026000	887027000
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
Rated current AC / DC		31.6 mA /	6.6 mA /	3.2 mA /
Power rating		0.75 VA	0.75 VA	0.75 VA
Pull-in/drop-out voltage, typ.		18 V / 3.6 V AC	86.3 V / 17.3 V AC	172.5 V / 34.5 V AC
Output				
Switch-on delay		≤ 8 ms	≤ 8 ms	≤ 8 ms
Switch-off delay		≤ 6 ms	≤ 6 ms	≤ 6 ms
Ordering data				
Standard	Type	RCI314524	RCI314615	RCI314730
	Order No.	886984000	886985000	886986000
with test button	Type	RCI374524		RCI374730
	Order No.	886999000		887001000
with LED	Type	RCI314R24	RCI314S15	RCI314T30
	Order No.	887013000	887014000	887015000
with test button + LED	Type	RCI374R24	RCI374S15	RCI374T30
	Order No.	887028000	887029000	887030000
Note				

RIDERSERIES – relay modules

RCI relay

2 CO contact 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)

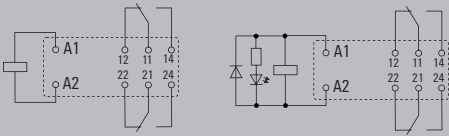


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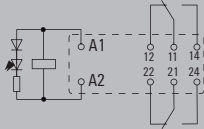
Circuit diagram

View on solder pins
dimensions in mm

DC coil LED + Diode



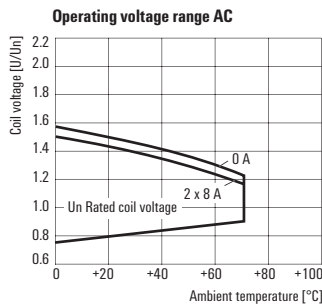
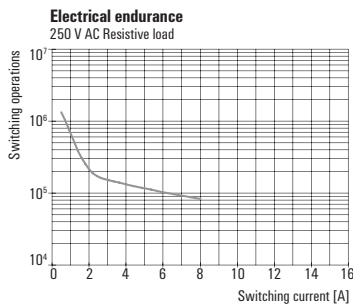
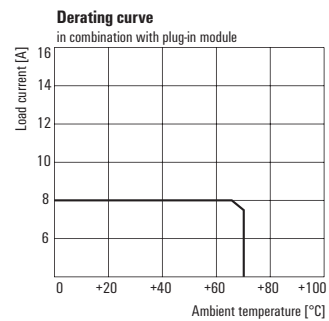
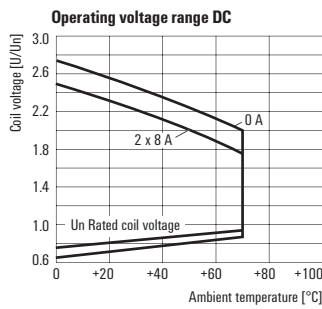
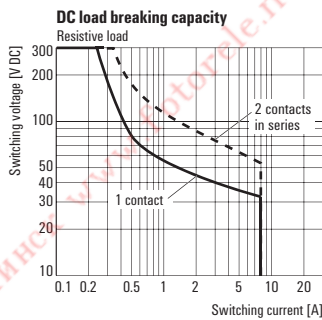
AC coil LED



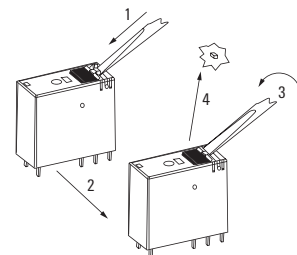
Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 8 A
Max. switching voltage, AC	400 V
Inrush current	15 A / 4 s
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	192 W @ 24 V / 2000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, CSA, cURus, EAC, VDE
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 8 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Depth x width x height	mm 25.6 / 13 / 29
Plug-in connection	
Note	
	x = 25.5 without test button / 26.7 with test button

Applications



Removal of snap lock



RCI relay 2 CO contact 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

		12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Input					
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC		/ 33.3 mA	/ 16.7 mA	/ 8.7 mA	/ 4.1 mA
Power rating		400 mW	400 mW	400 mW	400 mW
Pull-in/drop-out voltage, typ.		8.4 V / 1.2 V DC	16.8 V / 2.4 V DC	33.6 V / 4.8 V DC	77 V / 11 V DC
Output					
Switch-on delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Switch-off delay		≤ 6 ms	≤ 6 ms	≤ 6 ms	≤ 6 ms
Ordering data					
Standard	Type	RCI424012	RCI424024	RCI424048	RCI424110
	Order No.	8869870000	8869890000	8869900000	8869910000
with 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 + Free-wheel diode	Type	RCI484AB2	RCI484AC4	RCI484AE8	RCI484BB0
	Order No.	8870310000	8870320000	8870330000	8870340000
Note					

Ordering data

		24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Input				
Rated control voltage		24 V AC	115 V AC	230 V AC
Rated current AC / DC		31.6 mA /	6.6 mA /	3.2 mA /
Power rating		0.75 VA	0.75 VA	0.75 VA
Pull-in/drop-out voltage, typ.		18 V / 3.6 V AC	86.3 V / 17.3 V AC	172.5 V / 34.5 V AC
Output				
Switch-on delay		≤ 10 ms	≤ 10 ms	≤ 10 ms
Switch-off delay		≤ 6 ms	≤ 6 ms	≤ 6 ms
Ordering data				
Standard	Type	RCI424524	RCI424615	RCI424730
	Order No.	8869920000	8869930000	8869940000
with 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				

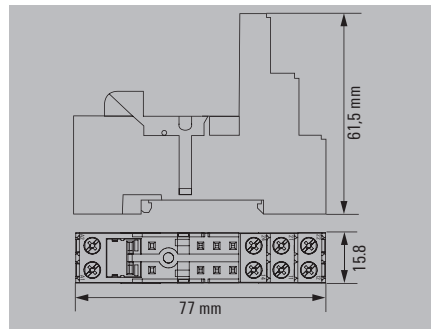
RIDERSERIES – relay modules

Accessories for RCI relays

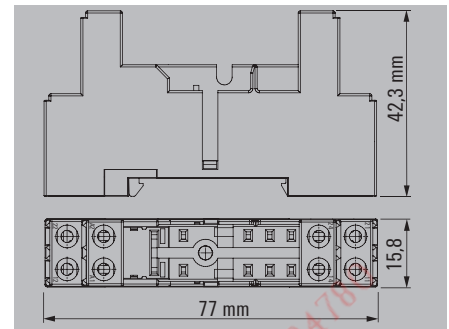
1 CO contact and 2 CO contacts

- Tool-free unlocking of the terminal rail
- Wide assortment of functional modules

Standard-height socket module with clamping yoke connection, 2 CO contacts



Low-height socket module with clamping yoke connection, 2 CO contacts



Technical data

Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	400 V
Continuous current	12 A, 16 A ¹⁾
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE, CSA, cURus, EAC
Insulation coordination	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 10 mm
Dielectric strength input - output	5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Impulse withstand voltage	
Connection data	
Clamping range (nominal / min. / max.)	2.5 / 1 / 2.5 mm ²
Tightening torque	0.5...0.7 Nm
Stripping length, rated connection	8 mm
Note	
1) For full continuous current (16 A), relay connections 11-21, 12-22 and 14-24 must be bridged.	

Rated switching voltage	250 V AC
Max. switching voltage, AC	400 V
Continuous current	12 A, 16 A ¹⁾
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE, CSA, cURus, EAC
Protection degree	IP20
Creepage and clearance distance input - output	≥ 10 mm
Dielectric strength input - output	5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Impulse withstand voltage	
Clamping range (nominal / min. / max.)	2.5 / 1 / 2.5 mm ²
Tightening torque	0.5...0.7 Nm
Stripping length, rated connection	8 mm
1) For full continuous current (16 A), relay connections 11-21, 12-22 and 14-24 must be bridged.	

Rated switching voltage	250 V AC
Max. switching voltage, AC	400 V
Continuous current	12 A, 16 A ¹⁾
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE, CSA, cURus, EAC
Protection degree	IP20
Creepage and clearance distance input - output	≥ 4 mm
Dielectric strength input - output	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Impulse withstand voltage	
Clamping range (nominal / min. / max.)	2.5 / 1 / 2.5 mm ²
Tightening torque	0.5...0.7 Nm
Stripping length, rated connection	8 mm
1) For full continuous current (16 A), relay connections 11-21, 12-22 and 14-24 must be bridged.	

Ordering data

Socket, DIN rail mounted	
Note	

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

Type	Qty.	Order No.
SRC-I 2CO N	10	8869480000

Accessories

Cross-connection	
Cross-connection, 8-pole	
Retaining clip	
Plastic retaining clip	
Metal retaining clip	
Markers	
Label, not PrintJet compatible, no MultiCard white	
LED module / protection modules	
Free-wheeling diode 6 - 230 V DC	
Load resistance 110 - 230 V UC	
LED 6 - 24 V DC green and freewheeling diode	
LED 24 - 60 V DC green and free-wheeling diode	
LED 110 - 230 V DC green and free-wheeling diode	
LED 6 - 24 V UC green	
LED 24 - 60 V UC green	
LED 110 - 230 V UC green	
RC element 110 - 230 V AC; 4.7 kΩ / 10 nF	
RC element 230 V UC; 1.1 kΩ / 200 nF	
Protective varistor; S07K30	
Protective varistor; S07K130	
Protective varistor; S07K275	
Screwdriver	
SDIK PZ1 SL	1
SDIK PZ1	1
SDK PZ1	1
Note	

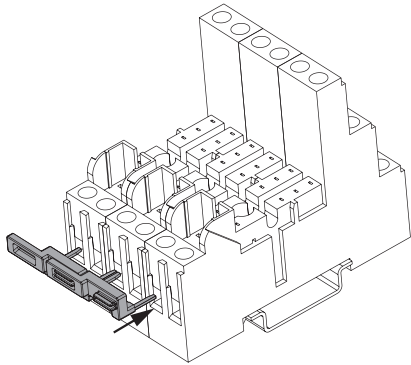
Type	Qty.	Order No.
SRC-I QV S	10	1132070000
SRC-I CLIP HP	10	8869510000
SRC-I CLIP HM RCI	20	1132090000
SRC-I MARK	10	8869530000
ESG 6/15 SRC-I MC NE WS	200	2558350000
RIM-I 1 6/230V	10	8869580000
RIM-I 1 R 110/230V	10	8870830000
RIM-I 2 6/24VDC GN	10	8869600000
RIM-I 2 24/60VDC GN	10	8869680000
RIM-I 2 110/230VDC GN	10	8869700000
RIM-I 3 6/24VUC GN	10	8869640000
RIM-I 3 24/60VUC GN	10	8869620000
RIM-I 3 110/230VUC GN	10	8869660000
RIM-I 3 110/230VAC RC	10	8869790000
RIM-I 3 230VAC RC	10	1172210000
RIM-I 4 24VUC VAR	10	8869710000
RIM-I 4 110VUC VAR	10	8869730000
RIM-I 4 230VUC VAR	10	8869750000
SDIK PZ1 SL	1	1274730000
SDIK PZ1	1	9008900000
SDK PZ1	1	9008530000

Type	Qty.	Order No.
SRC-I QV S	10	1132070000
SRC-I CLIP HP	10	8869510000
SRC-I CLIP HM RCI	20	1132090000
SRC-I MARK	10	8869530000
ESG 6/15 SRC-I MC NE WS	200	2558350000
RIM-I 1 6/230V	10	8869580000
RIM-I 1 R 110/230V	10	8870830000
RIM-I 2 6/24VDC GN	10	8869600000
RIM-I 2 24/60VDC GN	10	8869680000
RIM-I 2 110/230VDC GN	10	8869700000
RIM-I 3 6/24VUC GN	10	8869640000
RIM-I 3 24/60VUC GN	10	8869620000
RIM-I 3 110/230VUC GN	10	8869660000
RIM-I 3 110/230VAC RC	10	8869790000
RIM-I 3 230VAC RC	10	1172210000
RIM-I 4 24VUC VAR	10	8869710000
RIM-I 4 110VUC VAR	10	8869730000
RIM-I 4 230VUC VAR	10	8869750000
SDIK PZ1 SL	1	1274730000
SDIK PZ1	1	9008900000
SDK PZ1	1	9008530000

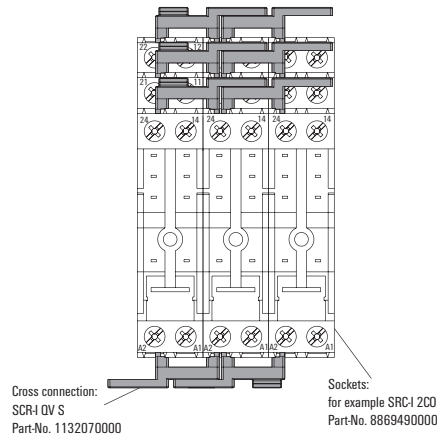
Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

Installation of the cross-connection on the relay base



Plug the cross connection into wire-connection opening
and fix it with tighten the screw



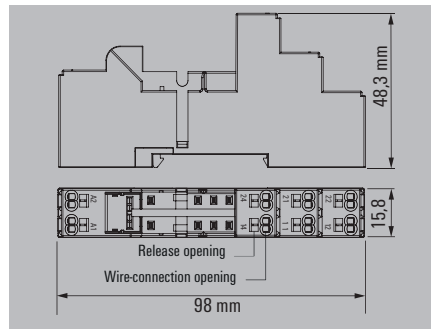
г.Минск www.fotorele.net www.tiristor.by email minsk17@tut.by тел.+375447584780

RIDERSERIES – relay modules

Accessories for RCI relays

1 CO contact and 2 CO contacts

- Tool-free unlocking of the terminal rail
- Wide assortment of functional modules

Socket module with
PUSH IN connection, 2 CO contacts

Technical data

Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	400 V
Continuous current	12 A, 16 A ¹⁾
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE, CSA, cURus, EAC
Insulation coordination	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 10 mm
Dielectric strength input - output	5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Impulse withstand voltage	
Connection data	
Clamping range (nominal / min. / max.)	1.5 / 0.75 / 1.5 mm ²
Tightening torque	...
Stripping length, rated connection	12 mm
Note	1) For full continuous current (16 A), relay connections 11-21, 12-22 and 14-24 must be bridged.

Ordering data

	Socket, DIN rail mounted	
Note		
Type	Qty.	Order No.
SRC-I 2CO P	10	8869500000

Accessories

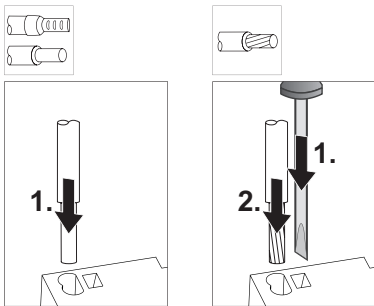
Pluggable cross-connection	2-pole	
Retaining clip	Plastic retaining clip Metal retaining clip	
Markers	Label, not PrintJet compatible, no MultiCard white	
LED module / protection modules	Free-wheeling diode 6 - 230 V DC Load resistance 110 - 230 V UC LED 6 - 24 V DC green and freewheeling diode LED 24 - 60 V DC green and free-wheeling diode LED 110 - 230 V DC green and free-wheeling diode LED 6 - 24 V UC green LED 24 - 60 V UC green LED 110 - 230 V UC green RC element 6 - 60 V UC; 470 Ω / 220 nF RC element 110 - 230 V AC; 4.7 kΩ / 10 nF RC element 230 V UC; 1.1 kΩ / 200 nF Protective varistor; S07K30 Protective varistor; S07K130 Protective varistor; S07K275	
Screwdriver	Standard	
Type	Qty.	Order No.
SRC-I QV P	10	8870840000
SRC-I CLIP HP	10	8869510000
SRC-I CLIP HM RCI	20	1132090000
SRC-I MARK	10	8869530000
ESG 6/15 SRC-I MC NE WS	200	2558350000
RIM-I 1 6/230V	10	8869580000
RIM-I 1 R 110/230V	10	8870830000
RIM-I 2 6/24VDC GN	10	8869600000
RIM-I 2 24/60VDC GN	10	8869680000
RIM-I 2 110/230VDC GN	10	8869700000
RIM-I 3 6/24VUC GN	10	8869640000
RIM-I 3 24/60VUC GN	10	8869620000
RIM-I 3 110/230VUC GN	10	8869660000
RIM-I 3 6/60VAC RC	10	8869770000
RIM-I 3 110/230VAC RC	10	8869790000
RIM-I 3 230VAC RC	10	1172210000
RIM-I 4 24VUC VAR	10	8869710000
RIM-I 4 110VUC VAR	10	8869730000
RIM-I 4 230VUC VAR	10	8869750000
SDIS SL 0.6X3.5X100	1	1274660000

Note

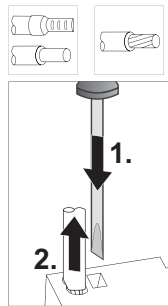
Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

PUSH IN connection operation

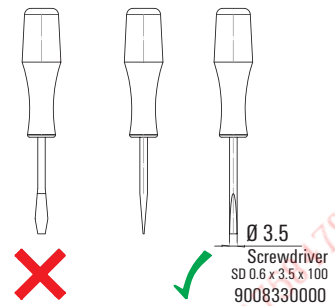
Insert connector



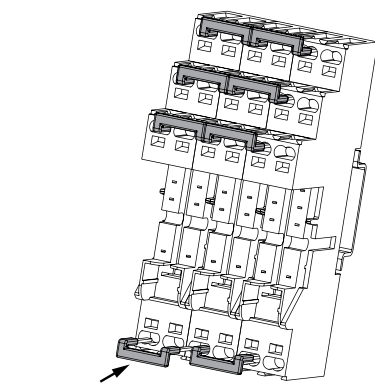
Remove connector



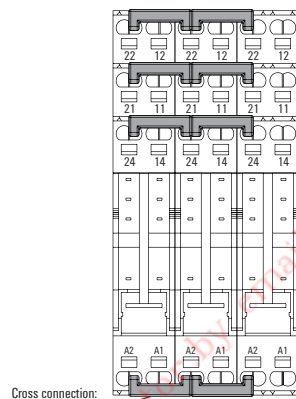
Recommended screwdriver



Installation of the cross-connection on the relay base



Plug the cross connection direct into wire-connection opening



Sockets:
SRC1 2C0 P
Part-No. 8869500000

Cross connection:
SRC1 QV P
Part-No. 8870840000

If more than 2 poles are connected with stacked cross-connection ridges, then the bottom ridges must be stripped to the appropriate length and shortened for correct fitting.

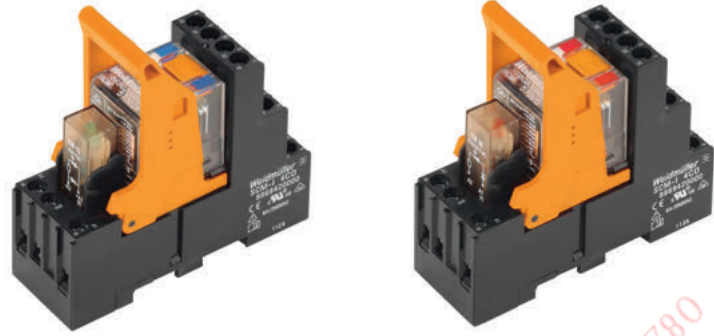
RIDERSERIES – relay modules

RCM KIT with screw connection

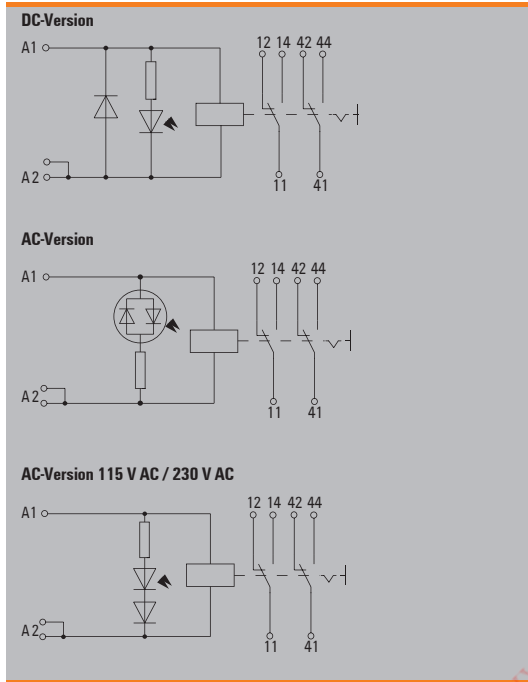
2 CO contacts, AC/ DC coil

Modular system comprising of:

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



B



Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 12 A
Max. switching voltage, AC	400 V
Inrush current	24 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	288 W @ 24 V / 3000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, DNVGL; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2.5 KV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2.5 KV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 1 / 2.5
Depth x width x height	mm 78.3 / 27.2 / 77
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 / DC	/ 31.3 mA	41.6 mA /	8.8 mA /	4.3 mA /
Power rating	740 mW	1.0 VA	1.0 VA	1.0 VA
Pull-in/drop-out voltage, typ.	18 V / 2.4 V DC	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Status indicator	Green LED	red LED	red LED	red LED
Protective circuit	Free-wheel diode			
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
Screw connection	Type RCMKIT-I 24VDC 2CO LD	Type RCMKIT-I 24VAC 2CO LD	Type RCMKIT-I 115VAC 2CO LD	Type RCMKIT-I 230VAC 2CO LD
Order No.	8920940000	8920950000	8920960000	8920970000
Type				
Order No.				
Ordering data Spare relay (pluggable)				
Type	RCM270024	RCM270524	RCM270615	RCM270730
Order No.	8689860000	8689760000	8689800000	8689820000
Note				

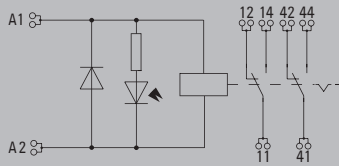
RCM KIT with PUSH IN connection 2 CO contacts AC/DC coil

Modular system comprising of:

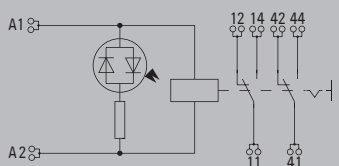
- Relay socket for rail mounting
- LED display unit (AC red / DC green)
- Retaining clip
- Pluggable relays with coil identification (AC red / DC blue)
- Markers



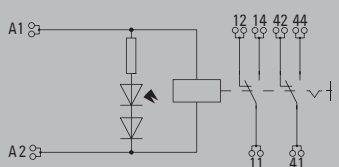
DC-Version



AC-Version



AC-Version 115 V AC / 230 V AC



Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 12 A
Max. switching voltage, AC	400 V
Inrush current	24 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	288 W @ 24 V / 3000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, DNVGL; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.75 / 1.5
Depth x width x height	mm 78.3 / 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 / DC		/ 31.3 mA	41.6 mA /	8.8 mA /	4.3 mA /
Power rating		740 mW	1.0 VA	1.0 VA	1.0 VA
Pull-in/drop-out voltage, typ.		18 V / 2.4 V DC	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Free-wheel diode			
Output					
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data					
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
	Type				
	Order No.				
Ordering data					
Spare relay (pluggable)	Type	RCM270024	RCM270524	RCM270615	RCM270730
	Order No.	8689860000	8689760000	8689800000	8689820000
Note					

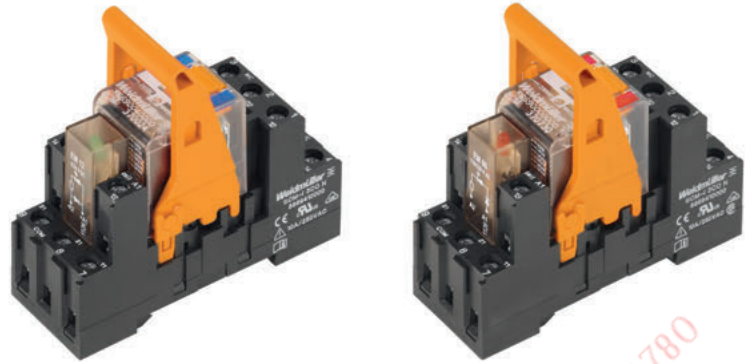
RIDERSERIES – relay modules

RCM KIT with screw connection

3 CO contacts, AC/ DC coil

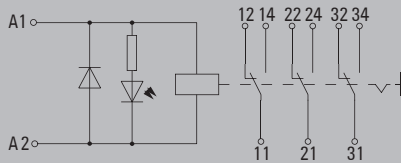
Modular system comprising of:

- 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

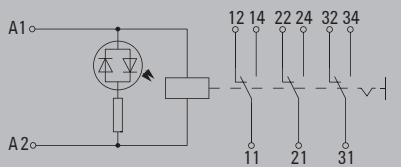


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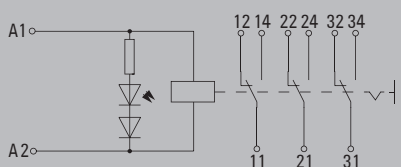
DC-Version



AC-Version



AC-Version 115 V AC / 230 V AC



Technical data

Output

Rated switching voltage / Continuous current	240 V AC / 10 A
Max. switching voltage, AC	400 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz

Rated data

Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, DNVGL; EAC

Insulation coordinates

Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2.5 KV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2.5 KV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2

Dimensions

	Screw connection
Clamping range (nominal / min. / max.)	mm ² 2.5 / 1 / 2.5
Depth x width x height	mm 71.6 / 27.2 / 73.5

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 / DC		/ 31.3 mA	41.6 mA /	8.8 mA /	4.3 mA /
Power rating		740 mW	1.0 VA	1.0 VA	1.0 VA
Pull-in/drop-out voltage, typ.		18 V / 2.4 V DC	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Free-wheel diode			
Output					
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data					
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					

г. Минск www.fotorele.net www.tiristor.by email minsk17@tut.by тел. +375447584780

RIDERSERIES – relay modules

RCM KIT with screw connection

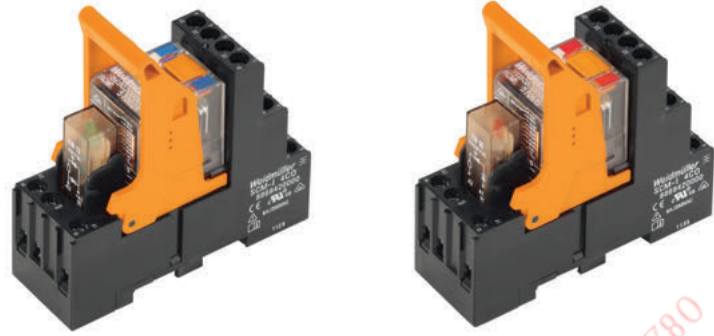
4 CO contacts, AC/ DC coil

Modular system comprising of:

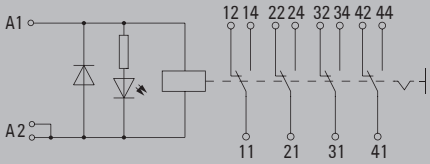
- relay socket for rail mounting
- LED display unit (AC red / DC green)
- retaining clip
- pluggable relays with coil identification (AC red / DC blue)
- Markers

Independent of connection system:

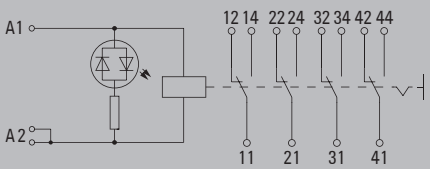
- Screw or PUSH IN connection system



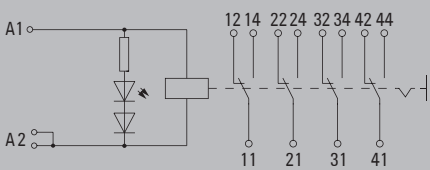
DC-Version



AC-Version



AC-Version 115 V AC / 230 V AC



Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 6 A
Max. switching voltage, AC	240 V
Inrush current	12 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	144 W @ 24 V / 1500 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, DNVGL; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 1 / 2.5
Depth x width x height	mm 78.3 / 27.2 / 77
Screw connection	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 1 / 2.5
Depth x width x height	mm 78.3 / 27.2 / 77
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 / DC		/ 31.3 mA	41.6 mA /	8.8 mA /	4.3 mA /
Power rating		740 mW	1.0 VA	1.0 VA	1.0 VA
Pull-in/drop-out voltage, typ.		18 V / 2.4 V DC	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Free-wheel diode			
Output					
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data					
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
	Type				
	Order No.				
Ordering data					
Spare relay (pluggable)	Type	RCM570024	RCM570524	RCM570615	RCM570730
	Order No.	8690200000	8690110000	1180800000	1181100000
Note					

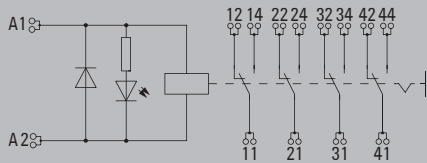
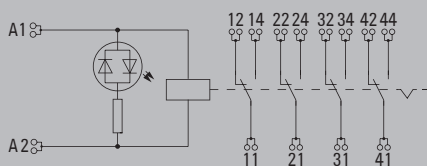
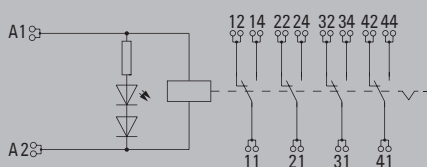
RCM KIT with PUSH IN connection**4 CO contacts AC/DC coil**

Modular system comprising of:

- 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****AC-Version 115 V AC / 230 V AC****Technical data**

Output	
Rated switching voltage / Continuous current	240 V AC / 6 A
Max. switching voltage, AC	240 V
Inrush current	12 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	144 W @ 24 V / 1500 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, DNVGL; EAC
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.75 / 1.5
Depth x width x height	mm 78.3 / 28 / 98
Note	

Ordering data

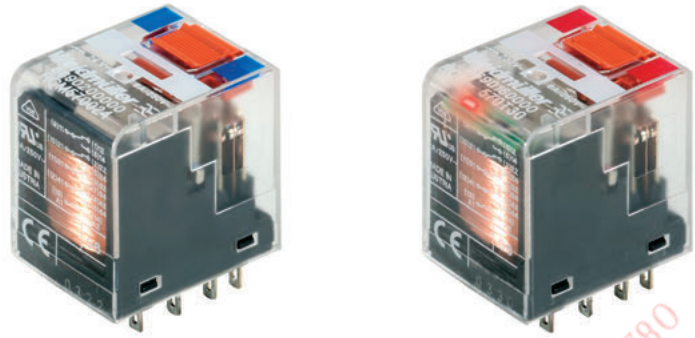
		24 V DC 4CO LED	24 V AC 4CO LED	115 V AC 4CO LED	230 V AC 4CO LED
Input					
Rated control voltage		24 V DC	24 V AC	115 V AC	230 V AC
Rated current AC / DC		/ 31.3 mA	41.6 mA /	8.8 mA /	4.3 mA /
Power rating		740 mW	1.0 VA	1.0 VA	1.0 VA
Pull-in/drop-out voltage, typ.		18 V / 2.4 V DC	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Free-wheel diode			
Output					
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data					
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
	Type				
	Order No.				
Ordering data					
Spare relay (pluggable)	Type	RCM570024	RCM570524	RCM570615	RCM570730
	Order No.	8690200000	8690110000	1180800000	1181100000
Note					

RIDERSERIES – relay modules

RCM relay

2 CO contacts, AC/DC coil

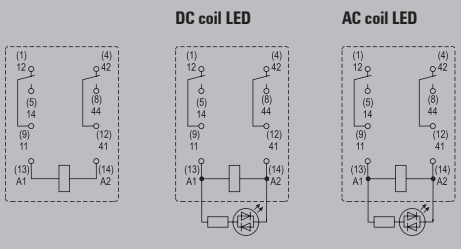
- 3000 VA switching capacity
- Solder and plug connection
- Safe-to-touch test button, selectable locking
- White labelling panel
- Identification of coils (AC red / DC blue)



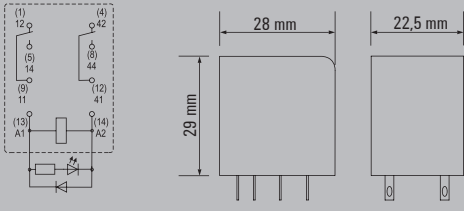
B

Circuit diagram

View on pins from below



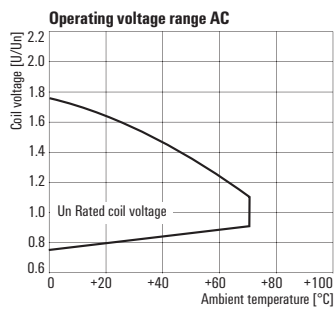
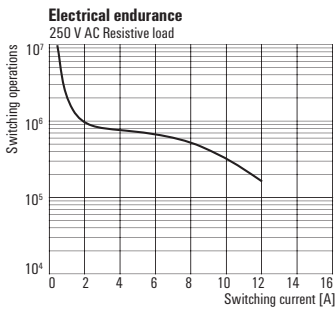
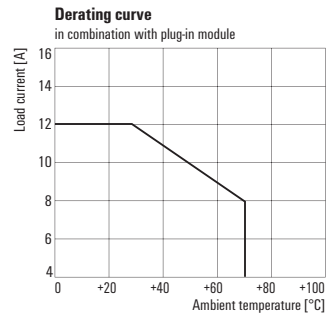
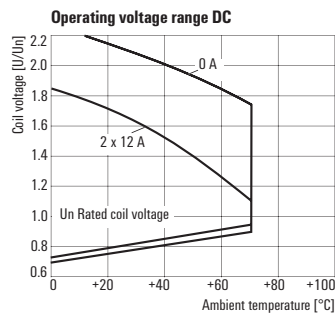
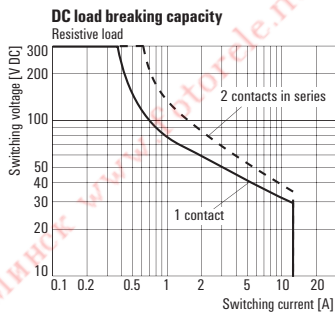
DC coil LED + diode



Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 12 A
Max. switching voltage, AC	400 V
Inrush current	24 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	288 W @ 24 V / 3000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, CSA, cURus, EAC, VDE
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2.5 KV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2.5 KV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	/ /
Depth x width x height	mm 29 / 22.5 / 28
Plug-in connection	
Note	

Applications



RCM relay
2 CO contacts, 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								
DC coil									
006	6 V DC								with LED + diode
012	12 V DC								LED L06
024	24 V DC								L12 AB2
048	48 V DC								L24 AC4
060	60 V DC								L48 AE8
110	110 V DC								L60 BBO
220	220 V DC								L110 M10
									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

	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Input				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 62.5 mA	/ 31.3 mA	/ 15.6 mA	/ 6.8 mA
Power rating	750 mW	750 mW	750 mW	750 mW
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11.5 V DC
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
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		
AgNi 90/10 Order No.	8957020000	8957030000		
Type Order No.				
Type Order No.				
Note				

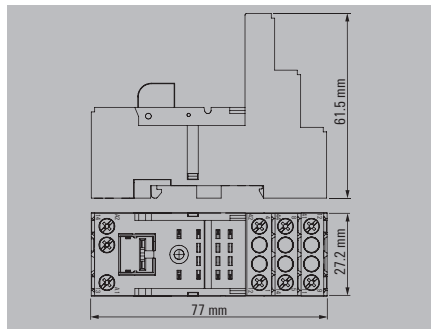
Ordering data

	24 V AC 2CO	48 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Input				
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current AC / DC	41.6 mA /	21.3 mA /	8.8 mA /	4.3 mA /
Power rating	1.0 VA	1.0 VA	1.0 VA	1.0 VA
Pull-in/drop-out voltage, typ.	38.4 V / 14.4 V AC	48 V / 18 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
without LED Type	RCM270524	RCM270548	RCM270615	RCM270730
AgNi 90/10 Order No.	8689760000	8689780000	8689800000	8689820000
with LED Type	RCM270R24		RCM270S15	RCM270T30
AgNi 90/10 Order No.	8689770000		8689810000	8689830000
Type Order No.				
Type Order No.				
Note				

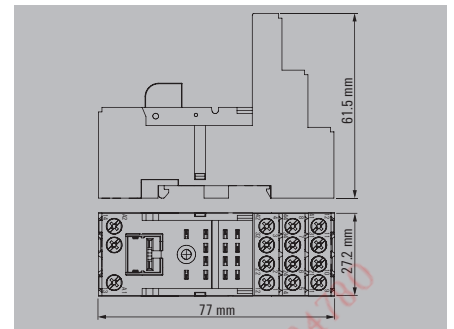
Accessories for RCM relays, 2 CO contacts

- Tool-free unlocking of the terminal rail
- Wide assortment of functional modules

Standard version socket module with clamping yoke connection, 2 CO contacts



Standard version socket module with clamping yoke connection, 4 CO contacts



Technical data

Output
Rated switching voltage
Max. switching voltage, AC
Continuous current
Rated data
Ambient temperature (operational)
Storage temperature
Approvals
Insulation coordination
Protection degree
Creepage and clearance distance input - output
Dielectric strength input - output
Dielectric strength of neighbouring contacts
Impulse withstand voltage
Connection data
Clamping range (nominal / min. / max.)
Tightening torque
Stripping length, rated connection
Note

250 V AC
400 V
12 A
-40 °C...70 °C
-40 °C...70 °C
CE, CSA, cURus, EAC, VDE
IP20
≥ 4 mm
2.5 kV _{eff} / 1 min.
2.5 kV _{eff} / 1 min.
2.5 / 1 / 2.5 mm ²
0.5...0.7 Nm
8 mm

250 V AC
250 V
6 A
-40 °C...70 °C
-40 °C...70 °C
CE, CSA, cURus, EAC, VDE
IP20
≥ 4 mm
2.5 kV _{eff} / 1 min.
2 kV _{eff} / 1 min.
2.5 / 1 / 2.5 mm ²
0.5...0.7 Nm
8 mm

Ordering data

Socket, DIN rail mounted
Note

Type	Qty.	Order No.
SCM-H 2CO	10	8869400000

Type	Qty.	Order No.
SCM-H 4CO	10	8869420000

Accessories

Cross-connection	8-pole
Retaining clip	Plastic retaining clip Metal retaining clip
Markers	Label, not PrintJet compatible, no MultiCard white
LED module / protection modules	Free-wheeling diode 6 - 230 V DC Load resistance 110 - 230 V UC LED 6 - 24 V DC green and freewheeling diode LED 24 - 60 V DC green and free-wheeling diode LED 110 - 230 V DC green and free-wheeling diode LED 6 - 24 V UC green LED 24 - 60 V UC green LED 110 - 230 V UC green RC element 6 - 60 V UC; 470 Ω / 220 nF RC element 110 - 230 V AC; 4.7 kΩ / 10 nF RC element 230 V UC; 1.1 kΩ / 200 nF Protective varistor; S07K30 Protective varistor; S07K130 Protective varistor; S07K275
Screwdriver	
Note	

Type	Qty.	Order No.
SCM-H QV S	10	1132080000
SCM-H CLIP P	10	8869440000
SCM-H CLIP M	10	8869450000
SCM-H MARK	10	8869460000
ESG 9/26 SCM-H MC NE WS	80	2558330000
RIM-H 1 6/230V	10	8869580000
RIM-H 1 R 110/230V	10	8870830000
RIM-H 2 6/24VDC GN	10	8869600000
RIM-H 2 24/60VDC GN	10	8869680000
RIM-H 2 110/230VDC GN	10	8869700000
RIM-H 3 6/24VUC GN	10	8869640000
RIM-H 3 24/60VUC GN	10	8869620000
RIM-H 3 110/230VUC GN	10	8869660000
RIM-H 3 6/60VAC RC	10	8869770000
RIM-H 3 110/230VAC RC	10	8869790000
RIM-H 3 230VAC RC	10	1172210000
RIM-H 4 24VUC VAR	10	8869710000
RIM-H 4 110VUC VAR	10	8869730000
RIM-H 4 230VUC VAR	10	8869750000
SDIK PZ1 SL	1	1274730000
SDIK PZ1	1	9008900000
SDK PZ1	1	9008530000

Type	Qty.	Order No.
SCM-H QV S	10	1132080000
SCM-H CLIP P	10	8869440000
SCM-H CLIP M	10	8869450000
SCM-H MARK	10	8869460000
ESG 9/26 SCM-H MC NE WS	80	2558330000
RIM-H 1 6/230V	10	8869580000
RIM-H 1 R 110/230V	10	8870830000
RIM-H 2 6/24VDC GN	10	8869600000
RIM-H 2 24/60VDC GN	10	8869680000
RIM-H 2 110/230VDC GN	10	8869700000
RIM-H 3 6/24VUC GN	10	8869640000
RIM-H 3 24/60VUC GN	10	8869620000
RIM-H 3 110/230VUC GN	10	8869660000
RIM-H 3 6/60VAC RC	10	8869770000
RIM-H 3 110/230VAC RC	10	8869790000
RIM-H 3 230VAC RC	10	1172210000
RIM-H 4 24VUC VAR	10	8869710000
RIM-H 4 110VUC VAR	10	8869730000
RIM-H 4 230VUC VAR	10	8869750000
SDIK PZ1 SL	1	1274730000
SDIK PZ1	1	9008900000
SDK PZ1	1	9008530000

Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

Accessories for RCM relays, 2 CO contacts

- Tool-free unlocking of the terminal rail
- Wide assortment of functional modules

Technical data

Output

Rated switching voltage
Max. switching voltage, AC
Continuous current

Rated data

Ambient temperature (operational)
Storage temperature
Approvals

Insulation coordination

Protection degree
Creepage and clearance distance input - output
Dielectric strength input - output
Dielectric strength of neighbouring contacts
Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)
Tightening torque
Stripping length, rated connection

Note

Ordering data

Socket, DIN rail mounted

Note

Accessories

Cross-connection

8-pole

Retaining clip

Plastic retaining clip
Metal retaining clip

Markers

Label, not PrintJet compatible, no MultiCard
white

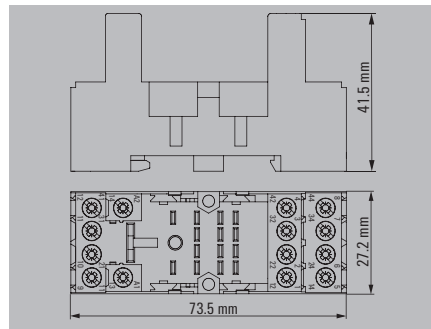
LED module / protection modules

Free-wheeling diode 6 - 230 V DC
Load resistance 110 - 230 V UC
LED 6 - 24 V DC green and freewheeling diode
LED 24 - 60 V DC green and free-wheeling diode
LED 110 - 230 V DC green and free-wheeling diode
LED 6 - 24 V UC green
LED 24 - 60 V UC green
LED 110 - 230 V UC green
RC element 6 - 60 V UC; 470 Ω / 220 nF
RC element 110 - 230 V AC; 4.7 kΩ / 10 nF
RC element 230 V UC; 1.1 kΩ / 200 nF
Protective varistor; S07K30
Protective varistor; S07K130
Protective varistor; S07K275

Screwdriver

Note

Low-height socket module with clamping yoke connection, 4 CO contacts



250 V AC

250 V

6 A

-40 °C...70 °C

-40 °C...70 °C

CE; CSA; cURus; EAC; VDE

IP20

≥ 4 mm

2.5 kV_{eff} / 1 min.

2 kV_{eff} / 1 min

2.5 / 1 / 2.5 mm²

0.5...0.7 Nm

8 mm

Type	Qty.	Order No.
SCM-I 4CO N	10	8869390000

Type	Qty.	Order No.
SCM-I QV S	10	1132080000
SCM-I CLIP N	10	8875620000
SCM-I CLIP M	10	8869450000

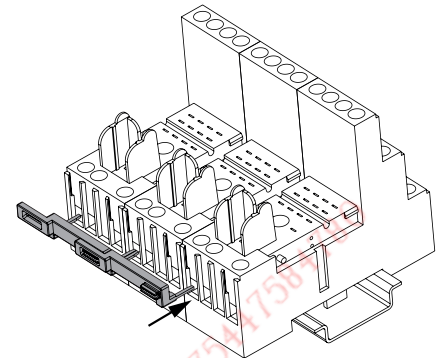
Type	Qty.	Order No.
SCM-I MARK	10	8869460000
ESG 9/26 SCM-I MC NE WS	80	2558330000

RIM-I 1 6/230V	10	8869580000
RIM-I 1 R 110/230V	10	8870830000
RIM-I 2 6/24VDC GN	10	8869600000
RIM-I 2 24/60VDC GN	10	8869680000
RIM-I 2 110/230VDC GN	10	8869700000
RIM-I 3 6/24VUC GN	10	8869640000
RIM-I 3 24/60VUC GN	10	8869620000
RIM-I 3 110/230VUC GN	10	8869660000
RIM-I 3 6/60VAC RC	10	8869770000
RIM-I 3 110/230VAC RC	10	8869790000
RIM-I 3 230VAC RC	10	1172210000
RIM-I 4 24VUC VAR	10	8869710000
RIM-I 4 110VUC VAR	10	8869730000
RIM-I 4 230VUC VAR	10	8869750000

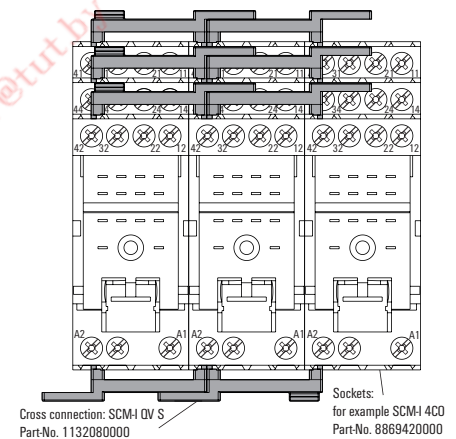
SDIK PZ1 SL	1	1274730000
SDIK PZ1	1	9008900000
SDK PZ1	1	9008530000

Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

Cross-connection 1132080000 installed in the same way as the plug-in module 8869420000:



Plug the cross connection into wire-connection opening and fix it with tighten the screw



Cross connection: SCM-I QV S
Part-No. 1132080000

Sockets:
for example SCM-I 4CO
Part-No. 8869420000

RIDERSERIES – relay modules

Accessories for RCM relays, 2 CO contacts

- Tool-free unlocking of the terminal rail
- Wide assortment of functional modules

Technical data

Output
Rated switching voltage
Max. switching voltage, AC
Continuous current
Rated data
Ambient temperature (operational)
Storage temperature
Approvals
Insulation coordination
Protection degree
Creepage and clearance distance input – output
Dielectric strength input – output
Dielectric strength of neighbouring contacts
Impulse withstand voltage
Connection data
Clamping range (nominal / min. / max.)
Tightening torque
Stripping length, rated connection
Note

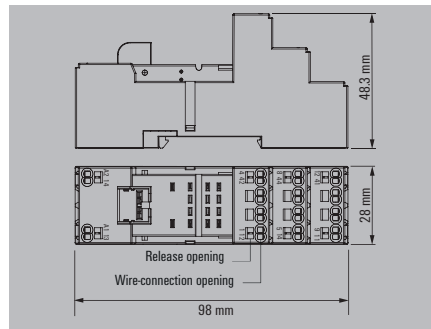
Ordering data

	Socket, DIN rail mounted
Note	

Accessories

Retaining clip	Metal retaining clip Plastic retaining clip
Cross-connection	2-pole
Markers	Label, not PrintJet compatible, no MultiCard white
LED module / protection modules	Free-wheeling diode 6 - 230 V DC Load resistance 110 - 230 V UC LED 6 - 24 V DC green and freewheeling diode LED 24 - 60 V DC green and free-wheeling diode LED 110 - 230 V DC green and free-wheeling diode LED 6 - 24 V UC green LED 24 - 60 V UC green LED 110 - 230 V UC green RC element 6 - 60 V UC; 470 Ω / 220 nF RC element 110 - 230 V AC; 4.7 kΩ / 10 nF RC element 230 V UC; 1.1 kΩ / 200 nF Protective varistor; S07K130 Protective varistor; S07K275 Protective varistor; S07K30
Screwdriver	Standard

Note

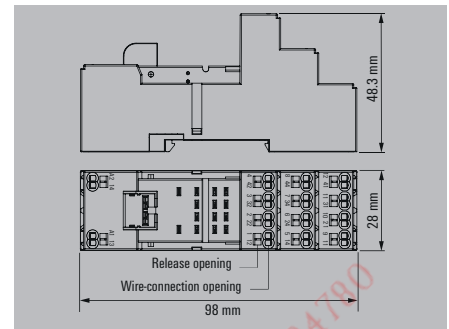
Socket module with
PUSH IN connection, 2 CO contacts

	250 V AC
	400 V
	12 A
	-40 °C...70 °C
	-40 °C...70 °C
	CE; CSA; cURus; EAC; VDE
	IP20
	≥ 4 mm
	2.5 kV _{eff} / 1 min.
	2.5 kV _{eff} / 1 min.
	1.5 / 0.75 / 1.5 mm ²
	...
	12 mm

Type	Qty.	Order No.
SCM-H 2CO P	10	8876220000

Type	Qty.	Order No.
SCM-H CLIP M	10	8869450000
SCM-H CLIP P	10	8869440000
SCM-H QV P	10	8870850000
SCM-H MARK	10	8869460000
ESG 9/26 SCM-H MC NE WS	80	2558330000
RIM-H 1 6/230V	10	8869580000
RIM-H 1 R 110/230V	10	8870830000
RIM-H 2 6/24VDC GN	10	8869600000
RIM-H 2 24/60VDC GN	10	8869680000
RIM-H 2 110/230VDC GN	10	8869700000
RIM-H 3 6/24VUC GN	10	8869640000
RIM-H 3 24/60VUC GN	10	8869620000
RIM-H 3 110/230VUC GN	10	8869660000
RIM-H 3 6/60VAC RC	10	8869770000
RIM-H 3 110/230VAC RC	10	8869790000
RIM-H 3 230VAC RC	10	1172210000
RIM-H 4 110VUC VAR	10	8869730000
RIM-H 4 230VUC VAR	10	8869750000
RIM-H 4 24VUC VAR	10	8869710000
SDIS SL 0.6X3.5X100	1	1274660000

Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

Socket module with
PUSH IN connection, 4 CO contacts

	250 V AC
	250 V
	6 A
	-40 °C...70 °C
	-40 °C...70 °C
	CE; CSA; cURus; EAC; VDE
	IP20
	≥ 4 mm
	2.5 kV _{eff} / 1 min.
	2 kV _{eff} / 1 min.
	1.5 / 0.75 / 1.5 mm ²
	...
	12 mm

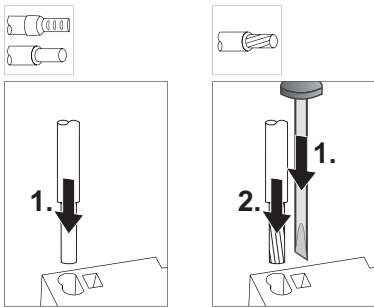
Type	Qty.	Order No.
SCM-H 4CO P	10	8869430000

Type	Qty.	Order No.
SCM-H CLIP M	10	8869450000
SCM-H CLIP P	10	8869440000
SCM-H QV P	10	8870850000
SCM-H MARK	10	8869460000
ESG 9/26 SCM-H MC NE WS	80	2558330000
RIM-H 1 6/230V	10	8869580000
RIM-H 1 R 110/230V	10	8870830000
RIM-H 2 6/24VDC GN	10	8869600000
RIM-H 2 24/60VDC GN	10	8869680000
RIM-H 2 110/230VDC GN	10	8869700000
RIM-H 3 6/24VUC GN	10	8869640000
RIM-H 3 24/60VUC GN	10	8869620000
RIM-H 3 110/230VUC GN	10	8869660000
RIM-H 3 6/60VAC RC	10	8869770000
RIM-H 3 110/230VAC RC	10	8869790000
RIM-H 3 230VAC RC	10	1172210000
RIM-H 4 110VUC VAR	10	8869730000
RIM-H 4 230VUC VAR	10	8869750000
RIM-H 4 24VUC VAR	10	8869710000
SDIS SL 0.6X3.5X100	1	1274660000

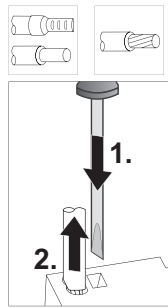
Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

PUSH IN connection operation

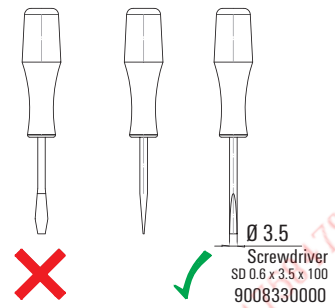
Insert connector



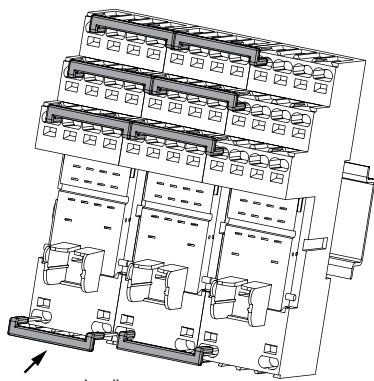
Remove connector



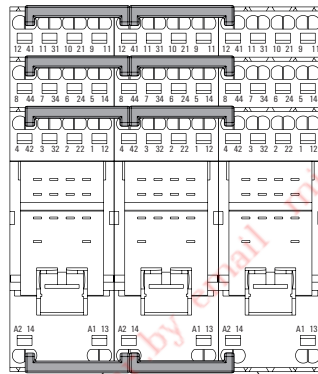
Recommended screwdriver



Installation of the cross-connection



Plug cross connection direct into wire-connection opening



Cross connection:
SCM-I QV P
Part-No. 8870850000

Sockets:
SCM-I xCO P

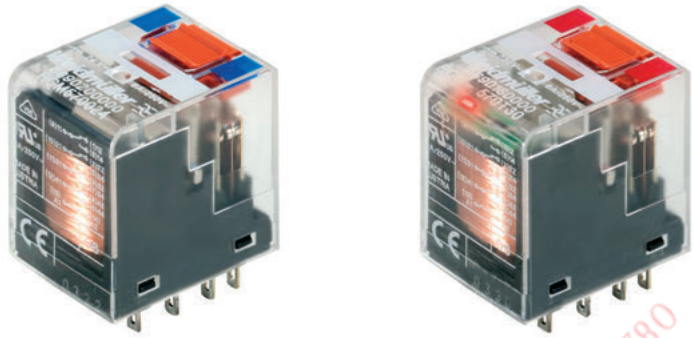
If more than 2 poles are connected with stacked cross-connection ridges, then the bottom ridges must be stripped to the appropriate length and shortened for correct fitting.

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RCM relay

3 CO contacts, AC/DC coil

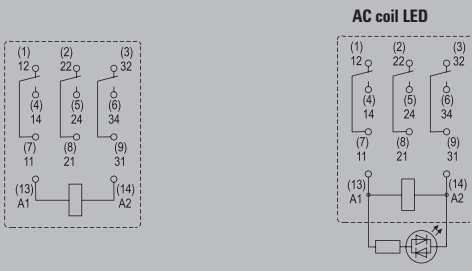
- 2500 VA switching capacity
- Solder and plug connection
- Safe-to-touch test button, selectable locking
- White labelling panel
- Identification of coils (AC red / DC blue)



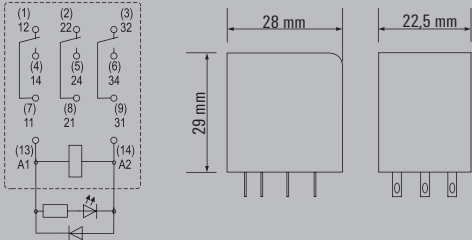
B

Circuit diagram

View on pins from below



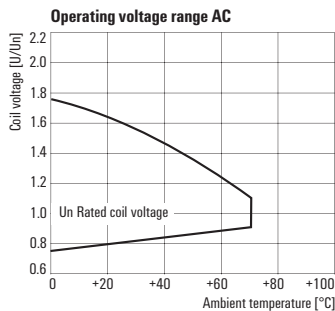
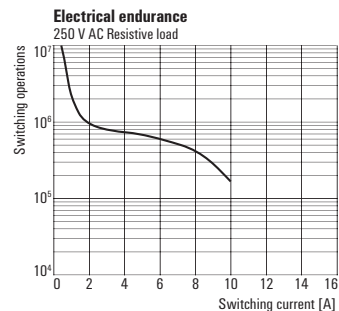
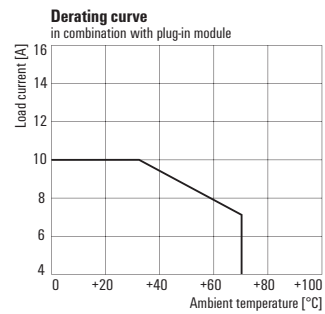
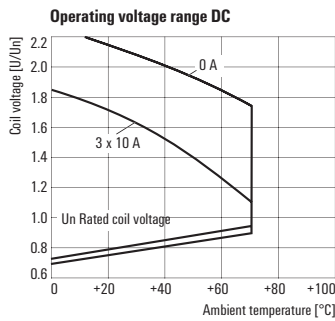
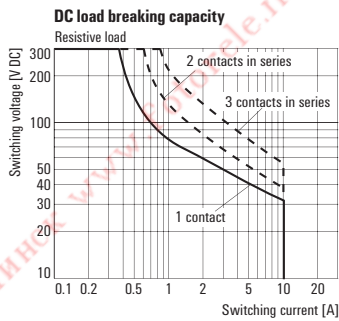
DC coil LED + diode



Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 10 A
Max. switching voltage, AC	400 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, CSA, cURus, EAC, VDE
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2.5 KV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2.5 KV _{eff} / 1 min.
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	/ /
Depth x width x height	mm 29 / 22.5 / 28
Plug-in connection	
Note	

Applications



RCM relay
3 CO contacts, 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					
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	BBO
	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

Industrial relay modules

B

Ordering data	12 V DC 3CO	24 V DC 3CO	48 V DC 3CO	110 V DC 3CO	
Input					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	
Rated current AC / DC	/ 62.5 mA	/ 31.3 mA	/ 15.6 mA	/ 6.8 mA	
Power rating	750 mW	750 mW	750 mW	750 mW	
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11.5 V DC	
Output					
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms	
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms	
Ordering data					
without LED	Type	RCM370012	RCM370024	RCM370048	RCM370110
AgNi 90/10	Order No.	8690020000	8690040000	8690060000	8690080000
with LED + freewheel diode	Type	RCM370AB2	RCM370AC4		RCM370BBO
AgNi 90/10	Order No.	8957090000	8957100000		8957120000
	Type				
	Order No.				
	Type				
	Order No.				
Note					

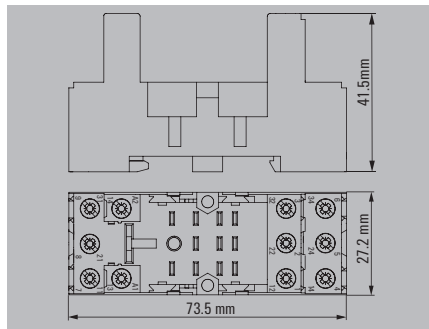
Ordering data	24 V AC 3CO	48 V AC 3CO	115 V AC 3CO	230 V AC 3CO
Input				
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current AC / DC	41.6 mA /	21.3 mA /	8.8 mA /	4.3 mA /
Power rating	1.0 VA	1.0 VA	1.0 VA	1.0 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC		92 V / 34.5 V AC	184 V / 69 V AC
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
without LED	Type	RCM370524	RCM370615	RCM370730
AgNi 90/10	Order No.	8690030000	8689980000	8690000000
with LED	Type	RCM370R24	RCM370R48	RCM370T30
AgNi 90/10	Order No.	8689950000	8689970000	8690010000
	Type			
	Order No.			
	Type			
	Order No.			
Note				

RIDERSERIES – relay modules

Accessories for RCM relays, 3 CO contacts

- Tool-free unlocking of the terminal rail
- Wide assortment of functional modules

Low-height socket module with clamping yoke connection, 3 CO contacts



Technical data

Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	400 V
Continuous current	10 A
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE, CSA, cURus, EAC, VDE
Insulation coordination	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 4 mm
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Impulse withstand voltage	
Connection data	
Clamping range (nominal / min. / max.)	2.5 / 1 / 2.5 mm ²
Tightening torque	0.5...0.7 Nm
Stripping length, rated connection	8 mm
Note	

Ordering data

Type	Qty.	Order No.
SCM-I 3CO N	10	8869410000
Note	Socket, DIN rail mounted	

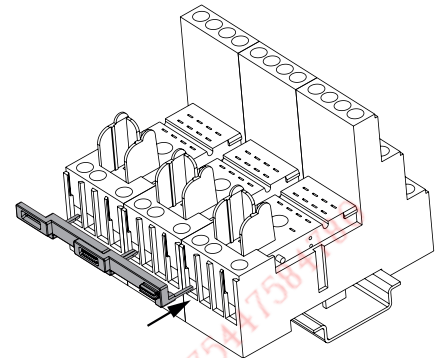
Accessories

Cross-connection	8-pole	
Retaining clip	Metal retaining clip Plastic retaining clip	
Markers	Label, not PrintJet compatible, no MultiCard white	
LED module / protection modules	Free-wheeling diode 6 - 230 V DC Load resistance 110 - 230 V UC LED 6 - 24 V DC green and freewheeling diode LED 24 - 60 V DC green and free-wheeling diode LED 110 - 230 V DC green and free-wheeling diode LED 6 - 24 V UC green LED 24 - 60 V UC green LED 110 - 230 V UC green RC element 6 - 60 V UC; 470 Ω / 220 nF RC element 110 - 230 V AC; 4.7 kΩ / 10 nF RC element 230 V UC; 1.1 kΩ / 200 nF Protective varistor; S07K30 Protective varistor; S07K130 Protective varistor; S07K275	
Screwdriver	SDIK PZ1 SL SDIK PZ1 SDK PZ1	
Type	Qty.	Order No.
SCM-I QV S	10	1132080000
SCM-I CLIP M	10	8869450000
SCM-I CLIP N	10	8875620000
SCM-I MARK	10	8869460000
ESG 9/26 SCM-I MC NE WS	80	2558330000
RIM-I 1 6/230V	10	8869580000
RIM-I 1 R 110/230V	10	8870830000
RIM-I 2 6/24VDC GN	10	8869600000
RIM-I 2 24/60VDC GN	10	8869680000
RIM-I 2 110/230VDC GN	10	8869700000
RIM-I 3 6/24VUC GN	10	8869640000
RIM-I 3 24/60VUC GN	10	8869620000
RIM-I 3 110/230VUC GN	10	8869660000
RIM-I 3 6/60VAC RC	10	8869770000
RIM-I 3 110/230VAC RC	10	8869790000
RIM-I 3 230VAC RC	10	1172210000
RIM-I 4 24VUC VAR	10	8869710000
RIM-I 4 110VUC VAR	10	8869730000
RIM-I 4 230VUC VAR	10	8869750000
SDIK PZ1 SL	1	1274730000
SDIK PZ1	1	9008900000
SDK PZ1	1	9008530000

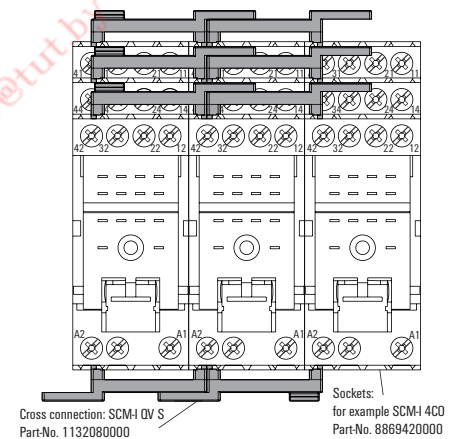
Note

Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

Cross-connection 1132080000 installed in the same way as the plug-in module 8869420000:



Plug the cross connection into wire-connection opening and fix it with tighten the screw



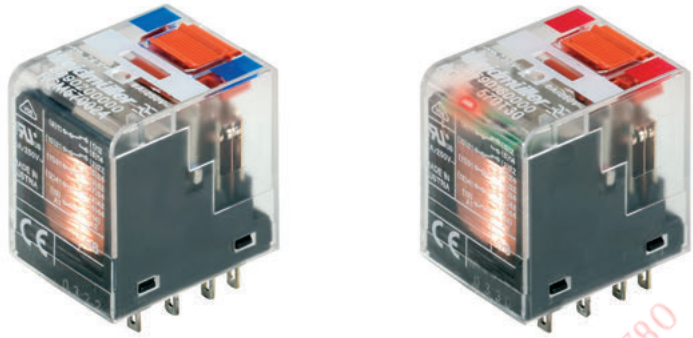
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RIDERSERIES – relay modules

RCM relay

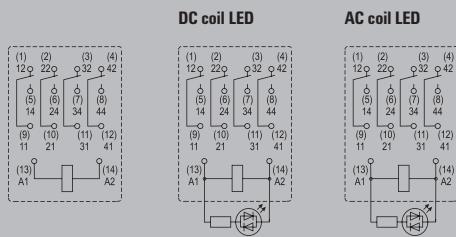
4 CO contacts, AC/DC coil

- 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)

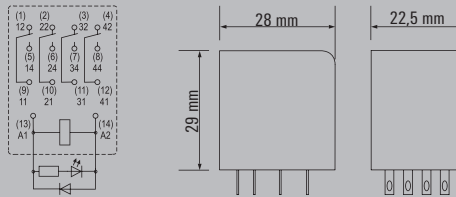


Circuit diagram

View on pins from below



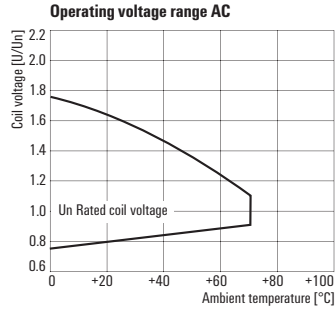
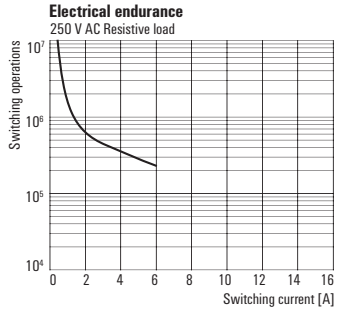
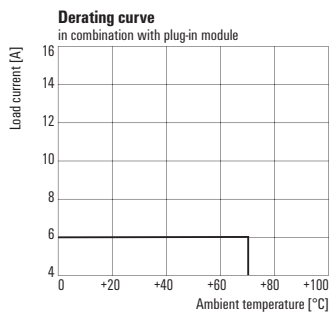
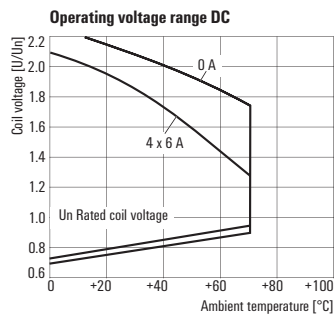
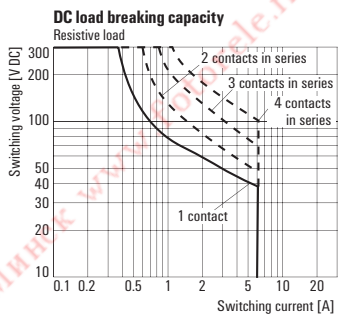
DC coil LED + diode



Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 6 A
Max. switching voltage, AC	240 V
Inrush current	12 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	144 W @ 24 V / 1500 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE, CSA, cURus, EAC, VDE
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2
Dimensions	
Clamping range (nominal / min. / max.)	/ /
Depth x width x height	mm 29 / 22.5 / 28
Plug-in connection	
	/ /
	mm 29 / 22.5 / 28
Note	

Applications



RCM relay
4 CO contacts, 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						
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 220 220 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						
							with LED + diode
							LED L06 AB2 L12 AC4 L24 AE8 L48 L60 L60 BBO M10 N20 N20

Ordering data

	12 V DC 4CO	24 V DC 4CO	48 V DC 4CO	110 V DC 4CO
Input				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 62.5 mA	/ 31.3 mA	/ 15.6 mA	/ 6.8 mA
Power rating	750 mW	750 mW	750 mW	750 mW
Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC	18 V / 2.4 V DC	36 V / 4.8 V DC	82.5 V / 11.5 V DC
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
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	RCM570BBO
AgNi 90/10 Order No.	8957160000	8957170000	8957180000	8957190000

Note				
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Ordering data

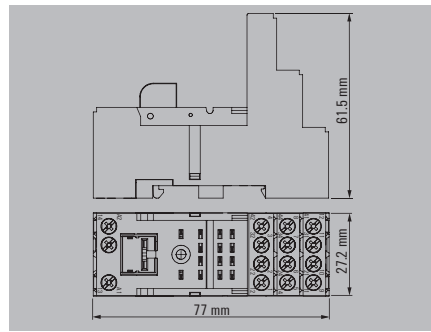
	24 V AC 4CO	48 V AC 4CO	115 V AC 4CO	230 V AC 4CO
Input				
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current AC / DC	41.6 mA /	21.3 mA /	8.8 mA /	4.3 mA /
Power rating	1.0 VA	1.0 VA	1.0 VA	1.0 VA
Pull-in/drop-out voltage, typ.	19.2 V / 7.2 V AC	38.4 V / 14.4 V AC	92 V / 34.5 V AC	184 V / 69 V AC
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
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
Type			RCM580615	RCM580730
Order No.			8824860000	7940007637
Type				
Order No.				

Note				
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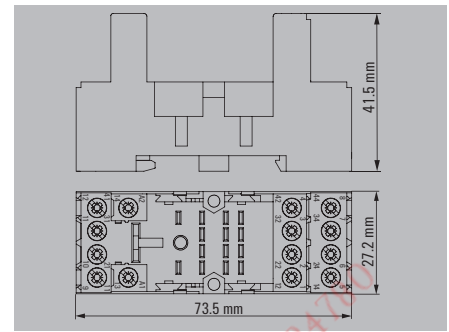
Accessories for RCM relays, 4 CO contacts

- Tool-free unlocking of the terminal rail
- Wide assortment of functional modules

Standard version socket module with clamping yoke connection, 4 CO contacts



Low-height socket module with clamping yoke connection, 4 CO contacts



Technical data

Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	250 V
Continuous current	6 A
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE, CSA, cURus, EAC, VDE
Insulation coordination	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 4 mm
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Impulse withstand voltage	
Connection data	
Clamping range (nominal / min. / max.)	2.5 / 1 / 2.5 mm ²
Tightening torque	0.5...0.7 Nm
Stripping length, rated connection	8 mm
Note	

Rated switching voltage	250 V AC
Max. switching voltage, AC	250 V
Continuous current	6 A
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE, CSA, cURus, EAC, VDE
Protection degree	IP20
Creepage and clearance distance input - output	≥ 4 mm
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Impulse withstand voltage	
Clamping range (nominal / min. / max.)	2.5 / 1 / 2.5 mm ²
Tightening torque	0.5...0.7 Nm
Stripping length, rated connection	8 mm

Rated switching voltage	250 V AC
Max. switching voltage, AC	250 V
Continuous current	6 A
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE, CSA, cURus, EAC, VDE
Protection degree	IP20
Creepage and clearance distance input - output	≥ 4 mm
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Impulse withstand voltage	
Clamping range (nominal / min. / max.)	2.5 / 1 / 2.5 mm ²
Tightening torque	0.5...0.7 Nm
Stripping length, rated connection	8 mm

Ordering data

Socket, DIN rail mounted	
Note	

Type	Qty.	Order No.
SCM-H 4CO	10	8869420000

Type	Qty.	Order No.
SCM-H 4CO N	10	8869390000

Accessories

Cross-connection		8-pole
Retaining clip		Plastic retaining clip Metal retaining clip
Markers		Label, not PrintJet compatible, no MultiCard white
LED module / protection modules		Free-wheeling diode 6 - 230 V DC Load resistance 110 - 230 V UC LED 6 - 24 V DC green and freewheeling diode LED 24 - 60 V DC green and free-wheeling diode LED 110 - 230 V DC green and free-wheeling diode LED 6 - 24 V UC green LED 24 - 60 V UC green LED 110 - 230 V UC green RC element 6 - 60 V UC; 470 Ω / 220 nF RC element 110 - 230 V AC; 4.7 kΩ / 10 nF RC element 230 V UC; 1.1 kΩ / 200 nF Protective varistor; S07K30 Protective varistor; S07K130 Protective varistor; S07K275
Screwdriver		
Note		

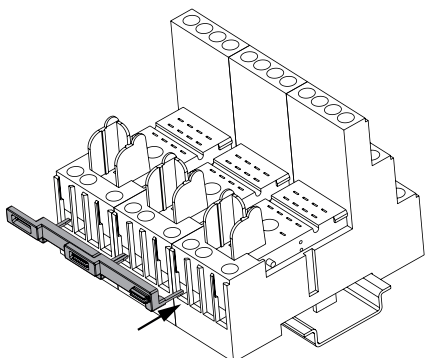
Type	Qty.	Order No.
SCM-H QV S	10	1132080000
SCM-H CLIP P	10	8869440000
SCM-H CLIP M	10	8869450000
SCM-H MARK	10	8869460000
ESG 9/26 SCM-H MC NE WS	80	2558330000
RIM-H 1 6/230V	10	8869580000
RIM-H 1 R 110/230V	10	8870830000
RIM-H 2 6/24VDC GN	10	8869600000
RIM-H 2 24/60VDC GN	10	8869680000
RIM-H 2 110/230VDC GN	10	8869700000
RIM-H 3 6/24VUC GN	10	8869640000
RIM-H 3 24/60VUC GN	10	8869620000
RIM-H 3 110/230VUC GN	10	8869660000
RIM-H 3 6/60VAC RC	10	8869770000
RIM-H 3 110/230VAC RC	10	8869790000
RIM-H 3 230VAC RC	10	1172210000
RIM-H 4 24VUC VAR	10	8869710000
RIM-H 4 110VUC VAR	10	8869730000
RIM-H 4 230VUC VAR	10	8869750000
SDIK PZ1 SL	1	1274730000
SDIK PZ1	1	9008900000
SDK PZ1	1	9008530000

Type	Qty.	Order No.
SCM-H QV S	10	1132080000
SCM-H CLIP N	10	8875620000
SCM-H CLIP M	10	8869450000
SCM-H MARK	10	8869460000
ESG 9/26 SCM-H MC NE WS	80	2558330000
RIM-H 1 6/230V	10	8869580000
RIM-H 1 R 110/230V	10	8870830000
RIM-H 2 6/24VDC GN	10	8869600000
RIM-H 2 24/60VDC GN	10	8869680000
RIM-H 2 110/230VDC GN	10	8869700000
RIM-H 3 6/24VUC GN	10	8869640000
RIM-H 3 24/60VUC GN	10	8869620000
RIM-H 3 110/230VUC GN	10	8869660000
RIM-H 3 6/60VAC RC	10	8869770000
RIM-H 3 110/230VAC RC	10	8869790000
RIM-H 3 230VAC RC	10	1172210000
RIM-H 4 24VUC VAR	10	8869710000
RIM-H 4 110VUC VAR	10	8869730000
RIM-H 4 230VUC VAR	10	8869750000
SDIK PZ1 SL	1	1274730000
SDIK PZ1	1	9008900000
SDK PZ1	1	9008530000

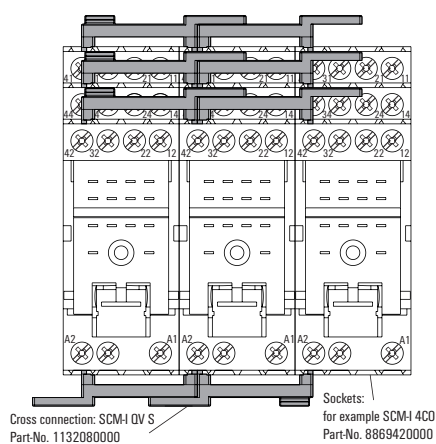
Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

Cross-connection 1132080000 installed in the same way as the plug-in module 8869420000:



Plug the cross connection into wire-connection opening and fix it with tighten the screw

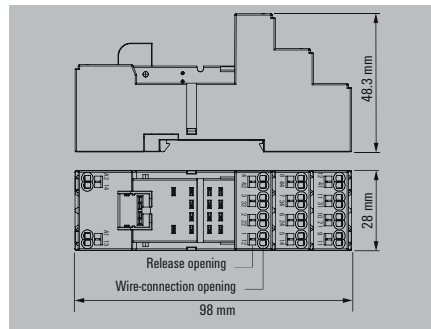


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RIDERSERIES – relay modules

Accessories for RCM relays, 4 CO contacts

- Tool-free unlocking of the terminal rail
- Wide assortment of functional modules

Socket module with
PUSH IN connection, 4 CO contacts

Technical data

Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	250 V
Continuous current	6 A
Rated data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...70 °C
Approvals	CE, CSA, cURus, EAC, VDE
Insulation coordination	
Protection degree	IP20
Creepage and clearance distance input - output	≥ 4 mm
Dielectric strength input - output	2.5 kV _{eff} / 1 min.
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Impulse withstand voltage	
Connection data	
Clamping range (nominal / min. / max.)	1.5 / 0.75 / 1.5 mm ²
Tightening torque	...
Stripping length, rated connection	12 mm
Note	

Ordering data

Type	Qty.	Order No.
SCM-I 4CO P	10	8869430000
Note	Socket, DIN rail mounted	

Accessories

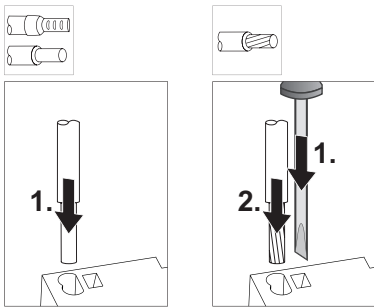
Retaining clip	Type	Qty.	Order No.
Plastic retaining clip	SCM-I CLIP P	10	8869440000
Metal retaining clip	SCM-I CLIP M	10	8869450000
Cross-connection	2-pole		
Markers	Label, not PrintJet compatible, no MultiCard white		
LED module / protection modules			
Free-wheeling diode 6 - 230 V DC	RIM-I 1 6/230V	10	8869580000
Load resistance 110 - 230 V UC	RIM-I 1 R 110/230V	10	8870830000
LED 6 - 24 V DC green and freewheeling diode	RIM-I 2 6/24VDC GN	10	8869600000
LED 24 - 60 V DC green and free-wheeling diode	RIM-I 2 24/60VDC GN	10	8869680000
LED 110 - 230 V DC green and free-wheeling diode	RIM-I 2 110/230VDC GN	10	8869700000
LED 6 - 24 V UC green	RIM-I 3 6/24VUC GN	10	8869640000
LED 24 - 60 V UC green	RIM-I 3 24/60VUC GN	10	8869620000
LED 110 - 230 V UC green	RIM-I 3 110/230VUC GN	10	8869660000
RC element 6 - 60 V UC; 470 Ω / 220 nF	RIM-I 3 6/60VAC RC	10	8869770000
RC element 110 - 230 V AC; 4.7 kΩ / 10 nF	RIM-I 3 110/230VAC RC	10	8869790000
RC element 230 V UC; 1.1 kΩ / 200 nF	RIM-I 3 230VAC RC	10	1172210000
Protective varistor; S07K130	RIM-I 4 110VUC VAR	10	8869730000
Protective varistor; S07K275	RIM-I 4 230VUC VAR	10	8869750000
Protective varistor; S07K30	RIM-I 4 24VUC VAR	10	8869710000
Screwdriver	Standard		
	SDIS SL 0.6X3.5X100	1	1274660000

Note

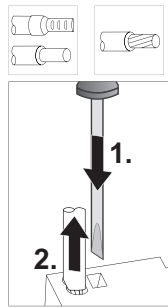
Article numbers for LED modules with red LED are to be found at catalog.weidmueller.com

PUSH IN connection operation

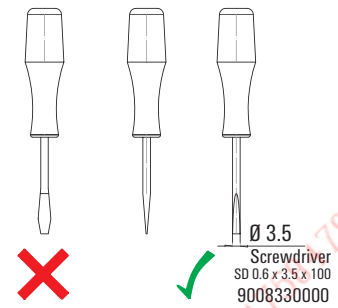
Insert connector



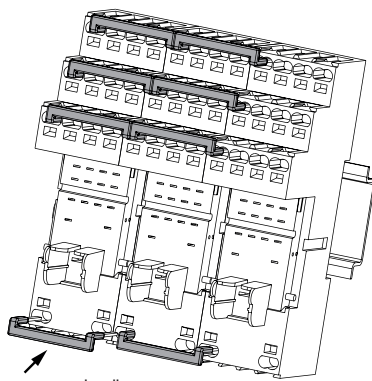
Remove connector



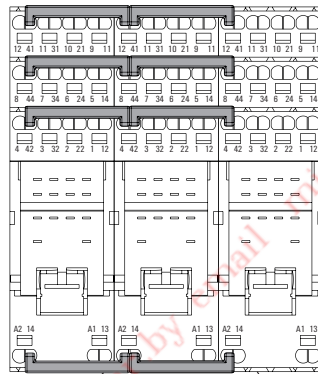
Recommended screwdriver



Installation of the cross-connection



Plug cross connection direct into wire-connection opening



Cross connection:
SCM-I QV P
Part-No. 8870850000

Sockets:
SCM-I xCO P

If more than 2 poles are connected with stacked cross-connection ridges, then the bottom ridges must be stripped to the appropriate length and shortened for correct fitting.

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Signal monitoring in safety-critical circuits

Coupling relays with forcibly guided contacts

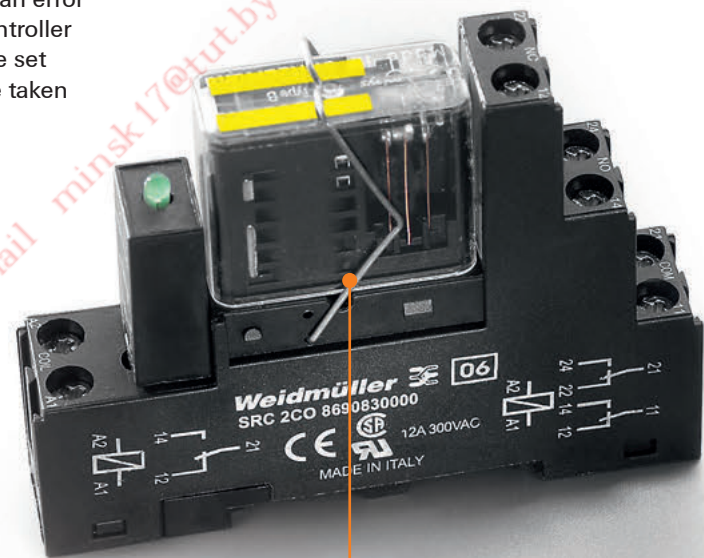
B

Weidmüller has expanded the RIDERSERIES to include a relay variant with forcibly guided contacts. Relays with forcibly guided contacts have a 99 % diagnostics coverage and an excellent reputation for use in safety systems.

The contacts interlock mechanically with each other in order to ensure a synchronous switching status of both contacts. This guarantees that the alert contact will maintain the same switching status in the event of an error (for example, if the working contact 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.

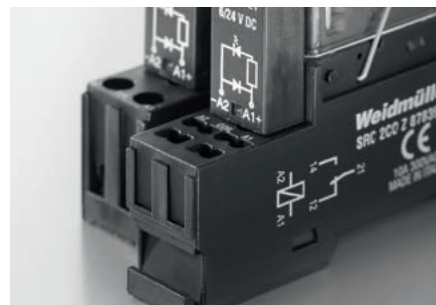
Resistant to vibration

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



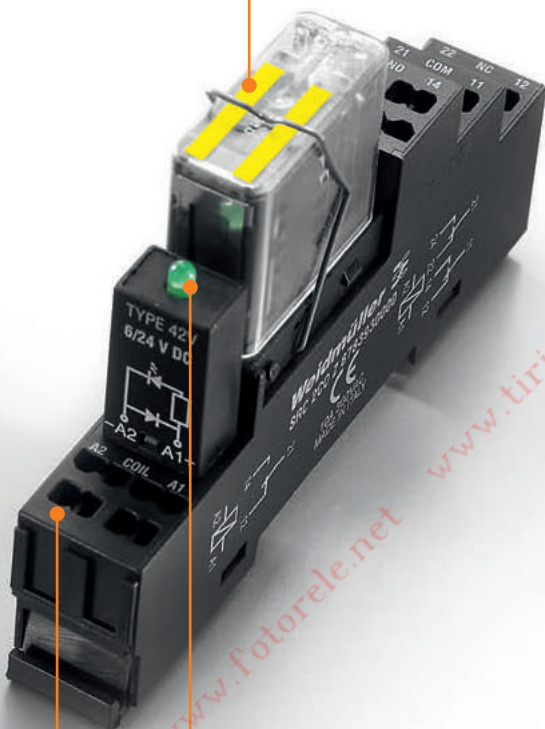
A variety of connection options

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.

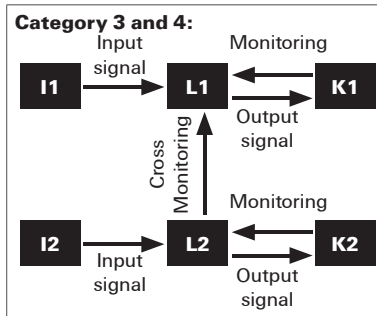


On site diagnostics

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).

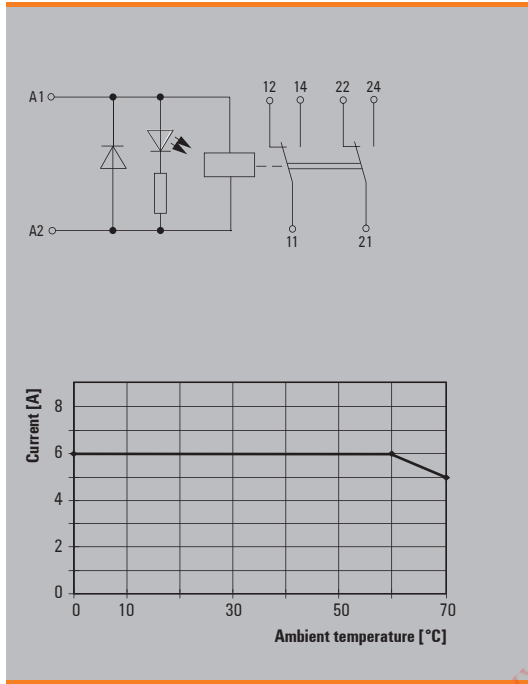


RIDERSERIES FG – relay module with forcibly guided contacts

RCI KIT with forcibly guided contacts

2 CO DC coil

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



Technical data

Output		
Rated switching voltage / Continuous current	250 V AC / 6 A	
Max. switching voltage, AC	250 V	
Inrush current	15 A / 20 ms	
Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V	
DC / AC Switching capacity (resistive), max.	144 W @ 24 V / 1500 VA	
Contact material	AgCuNi	
Mechanical service life	> 50 x 10 ⁸ switching cycles	
Max. switching frequency at rated load	0.1 Hz	
Rated data		
Ambient temperature (operational)	-40 °C...70 °C	
Storage temperature	-40 °C...85 °C	
Humidity	40 °C / 95 % rel. humidity, no condensation	
Approvals	CE, EAC	
Insulation coordinates		
Rated voltage	250 V	
Impulse withstand voltage	6 kV (1.2/50 µs)	
Dielectric strength input - output	2.5 KV _{eff} / 1 min.	
Dielectric strength of neighbouring contacts	2.5 KV _{eff} / 1 min.	
Dielectric strength to mounting rail		
Creepage and clearance distance input - output	≥ 10 mm	
Overvoltage category	III	
Pollution degree	2	
Dimensions		
Clamping range (nominal / min. / max.)	mm ²	2.5 / 0.5 / 2.5
	mm	61.6 / 15.6 / 77.6
Depth x width x height	mm	63.8 / 16 / 98.1
	mm	63.8 / 16 / 98.1
Note		

Ordering data

		24 V DC 2CO LED
Input		
Rated control voltage		24 V DC
Rated current AC / DC		/ 31.6 mA
Power rating		700 mW
Pull-in/drop-out voltage, typ.		18 V / 2.4 V DC
Status indicator		Green LED
Protective circuit		Free-wheel diode
Output		
Switch-on delay		≤ 12 ms
Switch-off delay		≤ 6 ms
Ordering data		
Screw connection	Type	RCIKIT 24VDC 2CO LD/FG
	Order No.	1218410000
Tension-clamp conn.	Type	RCIKITZ 24VDC 2CO LD/FG
	Order No.	1218390000
Ordering data Spare relay		
	Type	RCI42424FG
	Order No.	1218380000
Note		