

Power PCB Relay RX

1 pole (12 or 16 A) or 2 pole (8 A)
DC or AC-coil



Features

- 1 C/O or 1 N/O or 2 C/O contacts
- DC- or AC-coil
- 4 kV / 8 mm coil-contact
- Reinforced insulation (protection class II)
- Height 15.7 mm
- transparent cover optional

Applications

Domestic appliances, heating control, emergency lighting



Approvals in process

Contact data

Configuration	1 C/O or 1 N/O	2 C/O
Type of contact	single contact	
Rated current	12 A 16 A	8 A
Rated voltage / max. breaking voltage AC	250 Vac / 440 Vac	
Maximum breaking capacity AC	3000 VA 4000 VA	2000 VA
Contact material	AgNi 90/10	

Coil data

Nominal voltage	DC coil	5...110 Vdc
	AC coil	24...230 Vac
Nominal coil power	DC coil	500 mW
	AC coil	0.75 VA
Operate category	2	

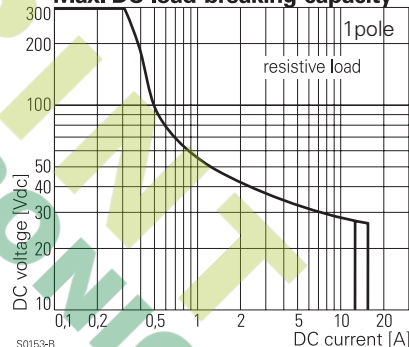
Coil versions, DC-coil

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
005	5	3.5	0.5	9.8	50 $\pm$ 5%	100.0
006	6	4.2	0.6	11.8	68 $\pm$ 5%	87.7
012	12	8.4	1.2	23.5	274 $\pm$ 5%	43.8
024	24	16.8	2.4	47.0	1095 $\pm$ 5%	21.9
048	48	33.6	4.8	94.1	4380 $\pm$ 5%	11.0
060	60	42.0	6.0	117.6	6845 $\pm$ 5%	8.8
110	110	77.0	11.0	215.6	23010 $\pm$ 5%	4.8

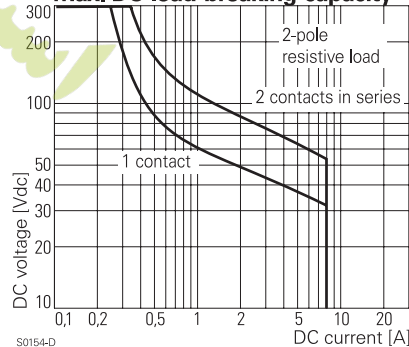
All figures are given for coil without preenergization, at ambient temperature +20°C

Other coil voltages on request

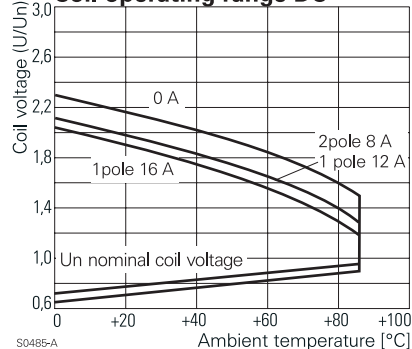
Max. DC load breaking capacity



Max. DC load breaking capacity



Coil operating range DC



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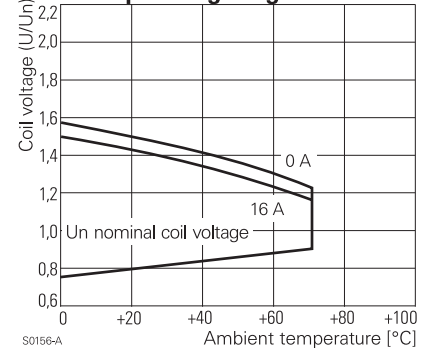
DC or AC-coil

Coil versions, AC-coil

Coil code	Nominal voltage Vac	Pull-in voltage Vac	Release voltage Vac	Maximum voltage Vac	Coil resistance Ω	Coil current mA
524	24	18.0	3.6	36.0	$350 \pm 10\%$	31.6
615	115	86.3	17.3	172.5	$8100 \pm 15\%$	6.6
730	230	172.5	34.5	345.0	$32500 \pm 15\%$	3.2

All figures are given for coil without preenergization, at ambient temperature +20°C

Coil operating range AC



Insulation

Dielectric strength	coil-contacts	4000 V _{rms}
	open contact circuit	1000 V _{rms}
Clearance / creepage		8 / 8 mm
Insulation to IEC 60664		
Voltage rating		250 V
Pollution degree		3
Overvoltage category		III
Insulation dimensions		
coil-contacts		reinforced insulation
contact-contact		basic / functional insulation
across open contacts		micro-disconnection
Tracking resistance of relay base		CTI 250

Other data

Flammability class according to UL 94		
standard / transparent cover		V-0 / HB
Coil insulation system according to UL 1446		Class F
Min. ambient temperature		-40 °C
Max. ambient temperature / mounting distance	1pole	2pole
DC-coil	85 °C ¹⁾ / 2.5 mm	70 °C / 2.5 mm
AC-coil	70 °C / 2.5 mm	70 °C / 5 mm
Mechanical life		
DC-coil		>5x10 ⁶ operations
AC-coil		>1x10 ⁶ operations
Max. switching rate at rated- / minimum load		6 min ⁻¹ / 600 min ⁻¹
Operate- / release time DC-coil		typ. 7 / 2 ms
Bounce time N/O contact/N/C contact		typ. 1 / 3 ms
Vibration resistance N/O		20 g, 10...150 Hz
Shock resistance (destruction)		100 g
Category of protection (IEC 61810)		RT II - flux proof, RT III - wash tight ²⁾
Relay weight		13 g
Packaging unit		500 pcs.

¹⁾ version with transparent cover: 70°C

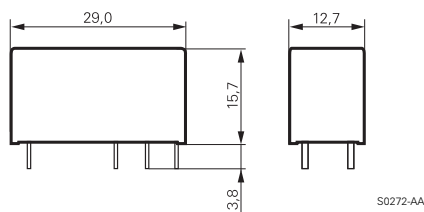
²⁾ version with transparent cover: RTII only

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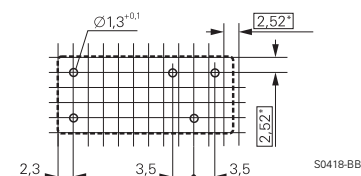
Dimensions

Dimensions in mm

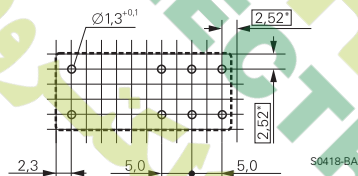


PCB layout / terminal assignment

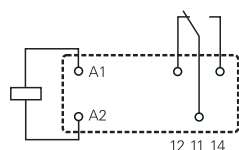
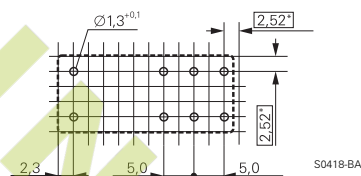
1 pole 12 A



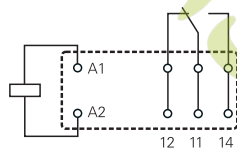
1 pole 16 A



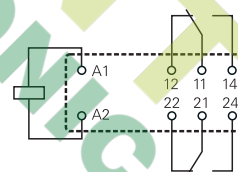
2 pole 8 A



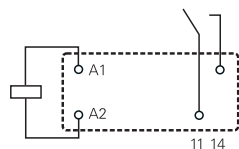
S0163-BG



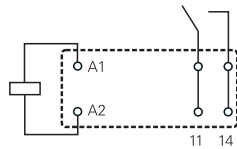
S0163-BE



S0163-BJ



S0163-BH



S0163-BF

View on solder pins
Dimensions in mm

*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

Product key

Type

Version

- | | |
|--|---|
| 1 1 pole 12 A, pinning 3.5 mm, flux proof | B 1 pole 12 A, pinng. 3.5 mm, wash tight |
| 3 1 pole 16 A, pinning 5 mm, flux proof | D 1 pole 16 A, pinng. 5 mm, wash tight |
| 4 2 pole 8 A, pinning 5 mm, flux proof | E 2 pole 8 A, pinng. 5 mm, wash tight |

Contacts

- | | |
|------------------------------|-------------------------------|
| 1 1 pole, C/O contact | 2 2 pole, C/O contacts |
| 3 1 pole, N/O contact | 4 2 pole, N/O contacts |

Contact material

- 4** AgNi 90/10

Coil

Coil code: please refer to coil versions table

Cover

- Blank** standard cover (white)
C transparent cover (clear)

R	X						

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Product key	Version	Contacts	Cont. material	Coil	Cover	Part number
RX114012	12 A pinning 3.5mm flux proof	1 C/O contact	AgNi 90/10	12 Vdc	white	6-1415502-1
RX114012C				12 Vdc	transparent	1-1415503-1
RX114024				24 Vdc	white	7-1415502-1
RX114024C				24 Vdc	transparent	2-1415503-1
RX114730				230 Vac	white	8-1415502-1
RX114730C				230 Vac	transparent	5-1415503-1
RX134012	16 A pinning 5mm flux proof	1 N/O contact		12 Vdc	white	9-1415502-1
RX134024				24 Vdc	white	0-1415503-1
RX314012				12 Vdc	white	1-1415502-1
RX314012C				12 Vdc	transparent	3-1415503-1
RX314024				24 Vdc	white	2-1415502-1
RX314024C				24 Vdc	transparent	4-1415503-1
RX314730	8 A pinning 5mm flux proof	2 C/O contacts		230 Vac	white	3-1415502-1
RX314730C				230 Vac	transparent	6-1415503-1
RX334012				12 Vdc	white	4-1415502-1
RX334024				24 Vdc	white	5-1415502-1
RX424012				12 Vdc	white	2-1415504-1
RX424012C				12 Vdc	transparent	5-1415504-1
RX424024				24 Vdc	white	3-1415504-1
RX424024C				24 Vdc	transparent	6-1415504-1
RX424730				230 Vac	white	4-1415504-1
RX424730C				230 Vac	transparent	7-1415504-1