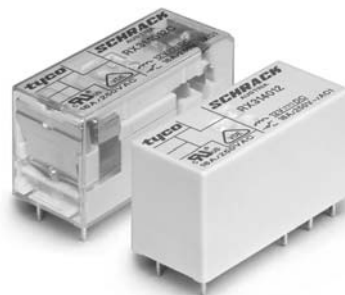


Power PCB Relay RX1

- 1 pole 12 or 16 A, 1 CO or 1 NO
- DC- or AC-coil
- Reinforced insulation
- Transparent cover optional
- RoHS compliant (Directive 2002/95/EC)
as per product date code 0413

Applications

Domestic appliances, heating control, emergency lighting,
automatic doors



S0271-A

Approvals

VDE REG.-Nr. A651, cULus E214025
Technical data of approved types on request

Contact data

Contact configuration	1 CO or 1 NO
Contact set	single contact
Type of interruption	micro disconnection
Rated current	12 A 16 A
Rated voltage / max.switching voltage AC	240/400 VAC
Maximum breaking capacity AC	3000 VA 4000 VA
Limiting making capacity, max 4 s, duty factor 10%	25 A
Contact material	AgNi 90/10
Mechanical endurance DC coil	> 5 x 10 ⁶ cycles
AC coil	> 1 x 10 ⁶ cycles
Rated frequency of operation with / without load	6 / 600 min ⁻¹

Contact ratings

Type	Load	Cycles
RX1	12 A, 250 VAC, DC coil, NO contact, 85°C, EN61810-1	1x10 ⁵
RX1	12 A, 250 VAC, AC coil, NO contact, 70°C, EN61810-1	1x10 ⁵
RX3	16 A, 250 VAC, NO contact, 70°C, DF 50%, EN61810-1	5x10 ⁴
RX3	16 A, 250 VAC, NO contact, 85°C, DF 10%, UL508	5x10 ⁴

Coil data

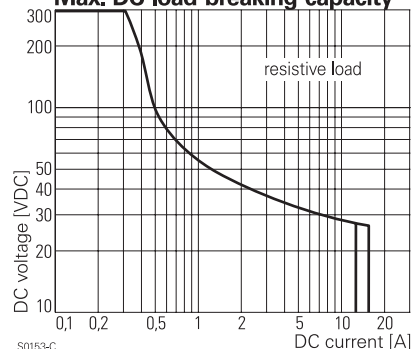
Rated coil voltage range DC coil	5...110 VDC
AC coil	24...230 VAC
Coil power DC coil	520 mW
AC coil	typ 0,75 VA
Operative range	2
Coil insulation system according UL1446	class F

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
005	5	3.5	0.5	50 ± 10%	500
006	6	4.2	0.6	68 ± 10%	529
012	12	8.4	1.2	274 ± 10%	526
024	24	16.8	2.4	1095 ± 10%	526
048	48	33.6	4.8	4380 ± 10%	526
060	60	42.0	6.0	6845 ± 10%	526
110	110	77.0	11.0	23010 ± 10%	526

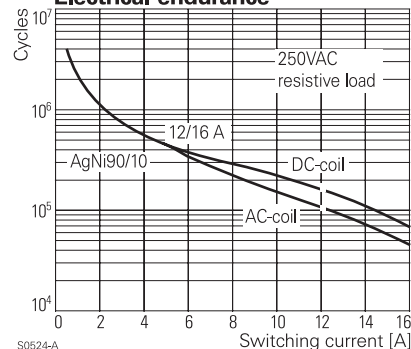
All figures are given for coil without preenergization, at ambient temperature +23°C

Max. DC load breaking capacity



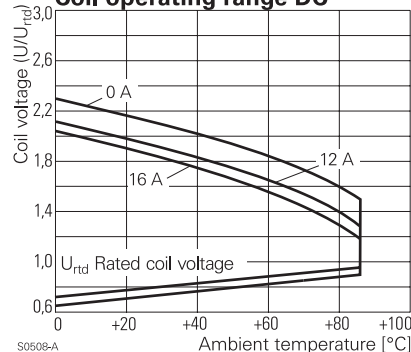
S0153-C

Electrical endurance



S0524-A

Coil operating range DC



S0508-A

Power PCB Relay RX1 (Continued)

Coil versions, AC-coil 50Hz

Coil code	Rated voltage	Operate voltage 50 Hz	Release voltage 50 Hz	Coil resistance	Rated coil power 50 Hz
	VAC	VAC	VAC	Ohm	VA
524	24	18.0	3.6	350±10%	0.76
615	115	86.3	17.3	8100±15%	0.76
730	230	172.5	34.5	32500±15%	0.74

All figures are given for coil without preenergization, at ambient temperature +23°C

Insulation

Dielectric strength coil-contact circuit	4000 V _{rms}
open contact circuit	1000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 8 / 8 mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	PTI 250 V
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	functional
Rated insulation voltage	250 V
Pollution degree 12 A version	3
16 A version	3
Rated voltage system	240 V
Overvoltage category	III

Other data

RoHS - Directive 2002/95/EC	compliant as per product date code 0413
Flammability class according to UL94	V-0 ¹⁾
Ambient temperature range DC coil	-40...+85°C ²⁾
AC coil	-40...+70°C
Operate- / release time DC coil	typ 7 / 2 ms
Bounce time DC coil, NO / NC contact	typ 1 / 3 ms
Vibration resistance (function) NO / NC contact	20 / 4 g, 10 ... 150 Hz
Shock resistance (destruction)	100 g
Category of protection	RTII - flux proof
Mounting standard version (white cover)	pcb or on socket
transparent version	pcb
Mounting distance	2,5 mm ³⁾
Resistance to soldering heat flux-proof version	270 °C / 10 s
Relay weight	14 g
Packaging unit	500 pcs

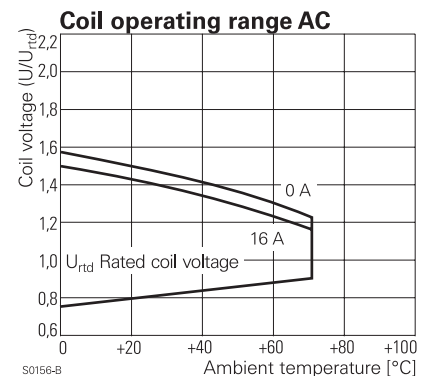
¹⁾ Version with transparent cover: V-2

²⁾ Version with transparent cover: -40...+70°C

³⁾ Version with transparent cover: 5 mm

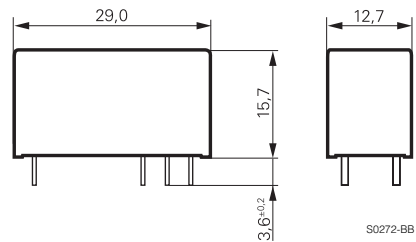
Accessories

For standard version (white cover), details see datasheet accessories RT



Power PCB Relay RX1 (Continued)

Dimensions

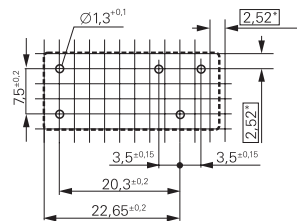


PCB layout / terminal assignment

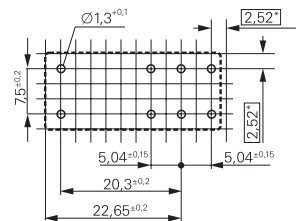
Bottom view on solder pins

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

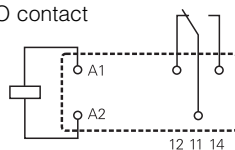
12 A, pinning 3.5 mm



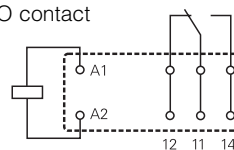
16 A, pinning 5 mm



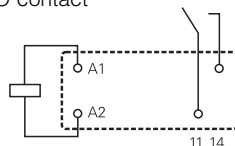
1 CO contact



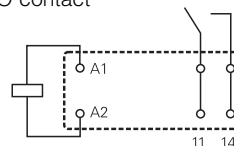
1 CO contact



1 NO contact



1 NO contact



Product key

Type

Version

- 1** 12 A, pinning 3.5 mm, flux proof
- 3** 16 A, pinning 5 mm, flux proof

Contact configuration

- 1** 1 CO contact
- 3** 1 NO contact

Contact material

- 4** AgNi 90/10

Coil

Coil code: please refer to coil versions table

Cover

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



Power PCB Relay RX1 (Continued)

Product key	Version	Contacts	Cont. material	Coil	Cover	Part number
RX114012	12 A	1 CO contact	AgNi 90/10	12 VDC	white	6-1415502-1
RX114012C	pinning 3.5mm				transparent	1-1415503-1
RX114024	flux proof			24 VDC	white	7-1415502-1
RX114024C					transparent	2-1415503-1
RX114730				230 VAC	white	8-1415502-1
RX114730C					transparent	5-1415503-1
RX134012		1 NO contact		12 VDC	white	9-1415502-1
RX134024				24 VDC		1415503-1
RX314012	16 A	1 CO contact		12 VDC		1-1415502-1
RX314012C	pinning 5mm				transparent	3-1415503-1
RX314024	flux proof			24 VDC	white	2-1415502-1
RX314024C					transparent	4-1415503-1
RX314730				230 VAC	white	3-1415502-1
RX314730C					transparent	6-1415503-1
RX334012		1 NO contact		12 VDC	white	4-1415502-1
RX334024				24 VDC		5-1415502-1