Product datasheet

Specifications



Interface plug-in relay, 5 A, 2 CO, lockable test button, 24 V AC

Local distributor code:

403006151 RXG21B7

EAN Code: 3606480688997

Main

Range of product	Harmony Electromechanical Relays
Series name	RXG series
Product or component type	Plug-in relay
Relay type	Interface relay
Contacts type and composition	2 C/O
[Uc] control circuit voltage	24 V AC
[Ithe] conventional enclosed thermal current	5 A at -40…55 °C
Local signalling	Flag

Complementary

status LED	Without
Electrical durability	100000 cycles for NO resistive load at 55 °C 100000 cycles for NC resistive load at 55 °C
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
Removable legend	With
Maximum switching voltage	250 V AC 30 V DC
Drop-out voltage threshold	>= 0.3 Uc AC
[Ie] rated operational current	5 A at 30 V (DC) conforming to UL 5 A at 30 V (DC) conforming to IEC 5 A at 250 V (AC) conforming to UL 5 A at 250 V (AC) conforming to IEC
Load current	5 A at 250 V AC
Minimum switching capacity	50 mW at 10 mA, 5 V DC
Maximum switching capacity	1250 VA
Control type	Lockable test button
Average resistance	260 Ohm at 23 °C +/- 10 %
Contact resistance	100 mOhm
Insulation resistance	1000 MOhm at 500 V DC
Electrical insulation class	Class F
Mechanical durability	10000000 cycles
Safety reliability data	B10d = 100000

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Operating rate	<= 1800 cycles/hour under load <= 18000 cycles/hour no-load
Utilisation coefficient	20 %
Operating time	20 ms
Reset time	20 ms
Dielectric strength	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced insulation 3000 V AC between poles with basic insulation 1300 V AC terminals and case with basic insulation
[Uimp] rated impulse withstand voltage	1200 V AC between contacts with micro disconnection 6000 V between coil and contact with reinforced insulation 1500 V between terminals and case with basic insulation 4000 V between poles with basic insulation
Overvoltage category	III
Protection category	RT I
Pollution degree	2
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	Silver alloy (AgSnO2In2O3)
Shape of pin	Flat (faston type)
Net weight	0.02 kg

Environment

Standards	UL 508 IEC 61810-1 CSA C22.2 No 14
Product certifications	CSA UL EAC CE DNV
Ambient air temperature for storage	-40…85 °C
Ambient air temperature for operation	-40…70 °C
IP degree of protection	IP40
Relative humidity	10…85 %
Vibration resistance	3 gn, amplitude = +/- 0.75 mm (f = 10…150 Hz)in operation 5 gn, amplitude = +/- 0.75 mm (f = 10…150 Hz)not in operation

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.600 cm
Package 1 Width	2.900 cm
Package 1 Length	1.300 cm
Package 1 Weight	22.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.500 cm

Package 2 Width	8.300 cm
Package 2 Length	9.100 cm
Package 2 Weight	224.000 g
Unit Type of Package 3	S01
Number of Units in Package 3	200
Package 3 Height	15 cm
Package 3 Width	15 cm
Package 3 Length	40 cm
Package 3 Weight	4.785 kg

Logistical informations

Country of origin	CN

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**10 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**0.2 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**9 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.1 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Compliant**
REACh Regulation	**Free of Substances of Very High Concern above the threshold**

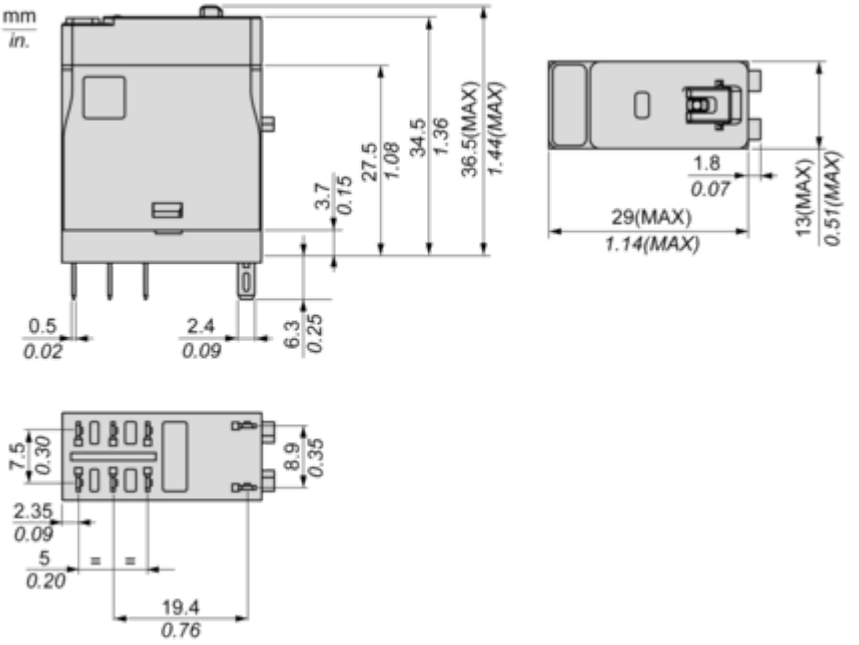
Use Again

Repack and remanufacture

Recyclability potential, in %	**70**
End of life manual availability	**End of Life Information**
Take-back	**No**

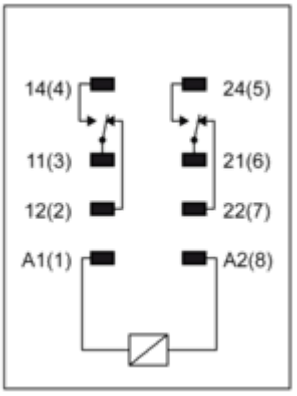
Dimensions Drawings

Dimensions



Connections and Schema

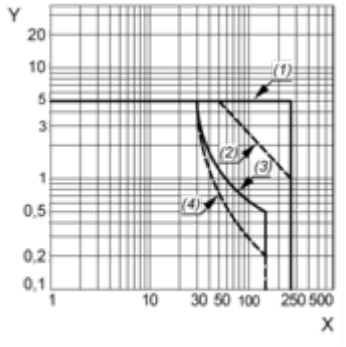
Wiring Diagram



Performance Curves

Performance Curves

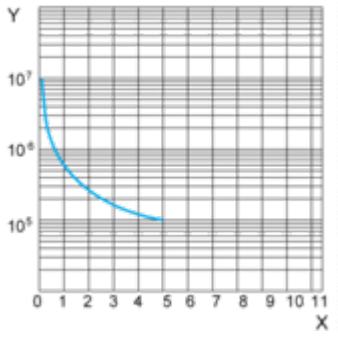
Maximum Switching Capacity



X : Switching voltage (V)
Y : Switching current (A)
(1) AC Resistive Load
(2) AC Inductive Load cos(Ø)=0.4
(3) DC Resistive Load
(4) DC Inductive Load (L/R=7ms)

Life Expectancy

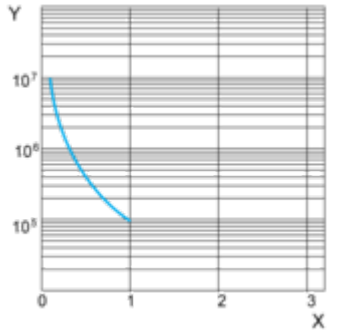
Resistive Load



X : Contact Current (A)
Y : Operating Cycle Number

Life Expectancy

Inductive Load

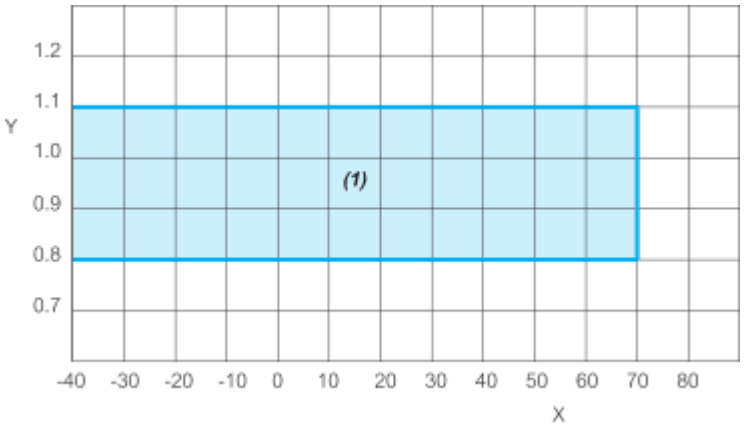


X : Contact Current (A)
Y : Operating Cycle Number

NOTE: These are typical curves, actual durability depends on load, environment, duty cycle, etc.

Coil Operating Range

AC Coil Operating Range VS Ambient Temperature



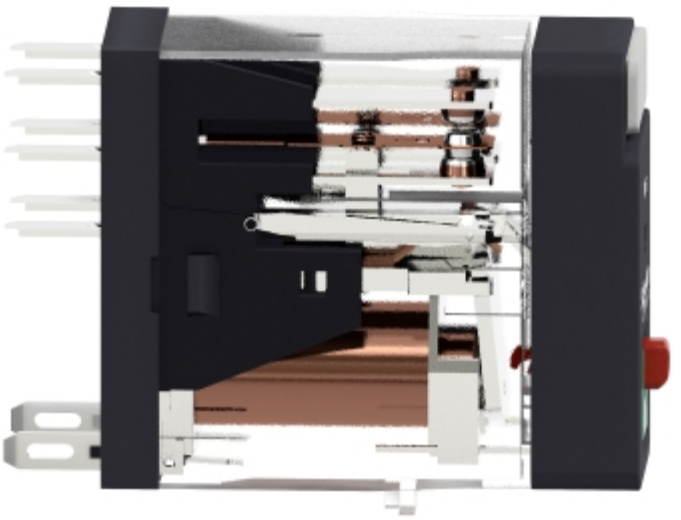
X : Ambient temperature (°C)
Y : AC Coil voltage (U/Uc)
(1) : Permitted operating range area

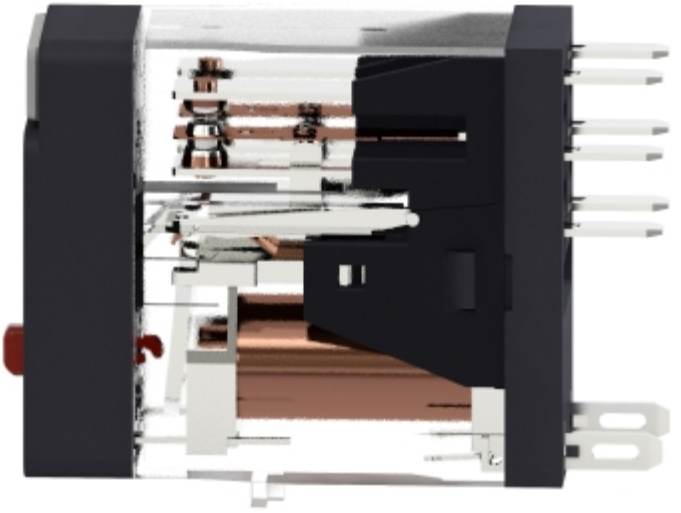
Image of product / Alternate images

Alternative












RXG
Schneider
Electric

Image of product in real life situation

