

# Product datasheet

Specifications



## Interface plug-in relay, 5 A, 2 CO, lockable test button, 120 V AC

Local distributor code: 403006216 RXG21F7

### Main

Range of product	Harmony Electromechanical Relays
Series name	Interface relay
Product or component type	Plug-in relay
Device short name	RXG
Contacts type and composition	2 C/O

### Complementary

Status LED	Without
Contacts material	Silver alloy (AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub> )
Maximum contact resistance	100 mOhm
[I <sub>th</sub> e] conventional enclosed thermal current	5 A at -40...55 °C
[I <sub>e</sub> ] 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 IEC 5 A at 250 V (AC) conforming to UL
Maximum switching voltage	250 V AC 30 V DC
Load current	5 A at 250 V AC
Maximum switching capacity	1250 VA
Minimum switching capacity	50 mW at 10 mA, 5 V DC
Operating rate	<= 1800 cycles/hour under load <= 18000 cycles/hour no-load
Utilisation coefficient	20 %
Mechanical durability	1000000 cycles
Electrical durability	100000 cycles for NO resistive load at 55 °C 100000 cycles for NC resistive load at 55 °C
[U <sub>i</sub> ] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV 1.2/50 µs
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
Coil resistance	6300 Ohm +/- 10 %

<b>Insulation resistance</b>	1000 MOhm at 500 V DC
<b>Test levels</b>	Level A group mounting
<b>Mounting position</b>	Any position
<b>Average consumption in VA</b>	0.82 VA 60 Hz
<b>Drop-out voltage threshold</b>	>= 0.3 U <sub>c</sub> AC
<b>Control circuit voltage limits</b>	0.8...1.1 U <sub>c</sub> AC
<b>Coil insulation class</b>	Class F
<b>Operate time</b>	20 ms
<b>Release time</b>	20 ms
<b>[U<sub>c</sub>] control circuit voltage</b>	120 V AC 50/60 Hz
<b>Safety reliability data</b>	B10d = 100000
<b>Colour of cover</b>	Standard
<b>Control type</b>	Lockable test button
<b>Local signalling</b>	Flag
<b>Torque value</b>	0.8 N.m
<b>Net weight</b>	0.02 kg
<b>Device presentation</b>	Complete product

## Environment

<b>Vibration resistance</b>	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
<b>IP degree of protection</b>	IP40
<b>Shock resistance</b>	20 gn in operation 100 gn not in operation
<b>Protection category</b>	RT I
<b>Standards</b>	UL 508 CSA C22.2 No 14 IEC 61810-1
<b>Product certifications</b>	EAC UL CE CSA DNV-GL
<b>Pollution degree</b>	2
<b>Overvoltage category</b>	III
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Ambient air temperature for operation</b>	-40...70 °C
<b>Relative humidity</b>	10...85 %

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	219.0 g
<b>Package 1 Height</b>	3.45 cm
<b>Package 1 width</b>	9.25 cm
<b>Package 1 Length</b>	8.6 cm
<b>Unit Type of Package 2</b>	BB1

Number of Units in Package 2	10
Package 2 Weight	221.0 g
Package 2 Height	3.5 cm
Package 2 width	8.2 cm
Package 2 Length	9.1 cm
Unit Type of Package 3	S01
Number of Units in Package 3	200
Package 3 Weight	4.63 kg
Package 3 Height	15 cm
Package 3 width	15 cm
Package 3 Length	40 cm

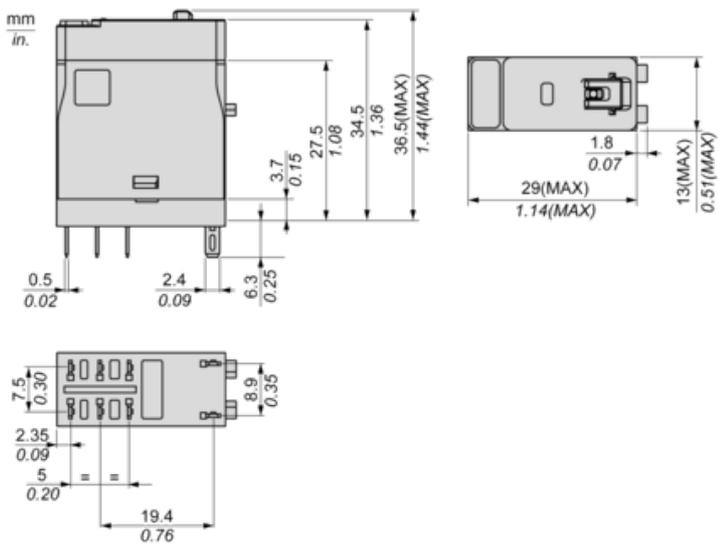
## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Contractual warranty

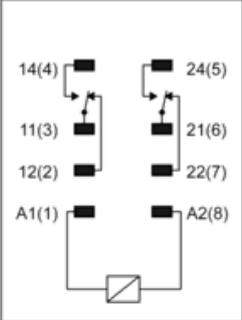
Warranty	18 months
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## Dimensions



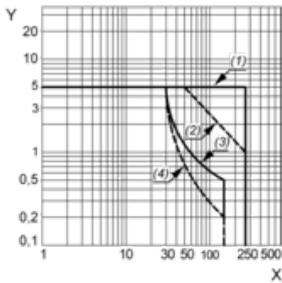
**Wiring Diagram**

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**Performance Curves**

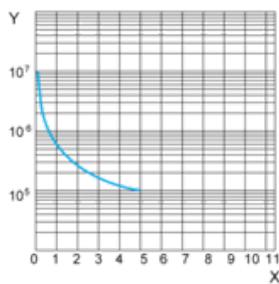
**Maximum Switching Capacity**



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

**Life Expectancy**

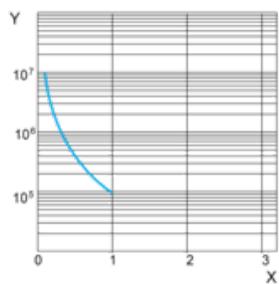
Resistive Load



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

**Life Expectancy**

Inductive Load



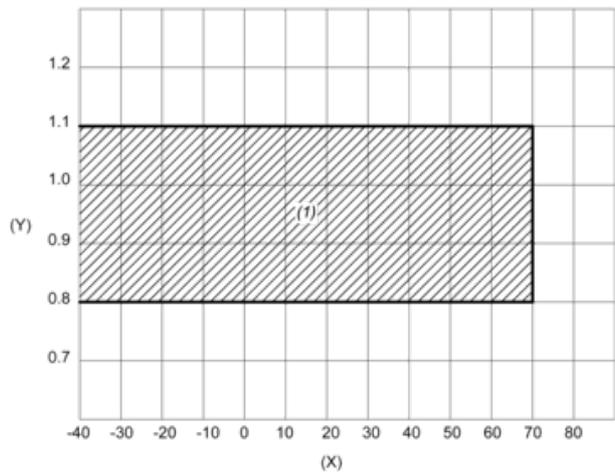
- X : Contact Current (A)
- Y : Operating Cycle Number

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

Coil Operating Range

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AC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area