

# Product data sheet

Specifications



interface plug in relay, Harmony Electromechanical Relays, 10A, 1CO, with LED, lockable test but to n, 24V DC

RXG12BD

**Product availability:** Stock - Normally stocked in distribution facility

## 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	1 C/O
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	10 A -40...131 °F (-40...55 °C)
Local signalling	Flag

## Complementary

Status LED	With
[Ui] rated insulation voltage	250 V IEC 300 V CSA 300 V UL
Removable legend	With
Maximum switching voltage	250 V AC 30 V DC
Drop-out voltage threshold	>= 0.1 Uc DC
Load current	10 A 250 V AC
Minimum switching capacity	500 mW at 100 mA, 5 V DC
Maximum switching capacity	2500 VA
Control Type	Lockable test button
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
Operating rate	<= 1800 cycles/hour under load <= 18000 cycles/hour no-load
Utilisation coefficient	20 %
Operating time	20 ms
Reset time	20 ms

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Dielectric strength</b>	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced insulation
<b>Overvoltage category</b>	III
<b>Protection category</b>	RT I
<b>Pollution degree</b>	2
<b>Test levels</b>	Level A group mounting
<b>Device presentation</b>	Complete product
<b>Contacts material</b>	Silver alloy (AgSnO <sub>2</sub> In2O <sub>3</sub> )
<b>Shape of pin</b>	Flat (faston type)
<b>Net Weight</b>	0.04 lb(US) (0.02 kg)

## Environment

<b>Standards</b>	IEC 61810-1 CSA C22.2 No 14 UL 508
<b>Product Certifications</b>	CSA CE EAC UL DNV-GL
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Ambient Air Temperature for Operation</b>	-40...158 °F (-40...70 °C)
<b>IP Degree of Protection</b>	IP40
<b>Relative humidity</b>	10...85 %
<b>Vibration resistance</b>	3 gn +/- 0.75 mm 10...150 Hz)in operation 5 gn +/- 0.75 mm 10...150 Hz)not in operation

## Ordering and shipping details

<b>Category</b>	US10CP221127
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3606480688737
<b>Returnability</b>	Yes
<b>Country of origin</b>	CN

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	0.71 in (1.800 cm)
<b>Package 1 Width</b>	1.10 in (2.800 cm)
<b>Package 1 Length</b>	1.61 in (4.100 cm)
<b>Package weight(Lbs)</b>	0.705 oz (20.000 g)



## 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

Carbon footprint (kg CO2 eq, Total Life cycle)

8

## Use Better

### Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation

[REACH Declaration](#)

California proposition 65

**WARNING:** This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

Circularity Profile

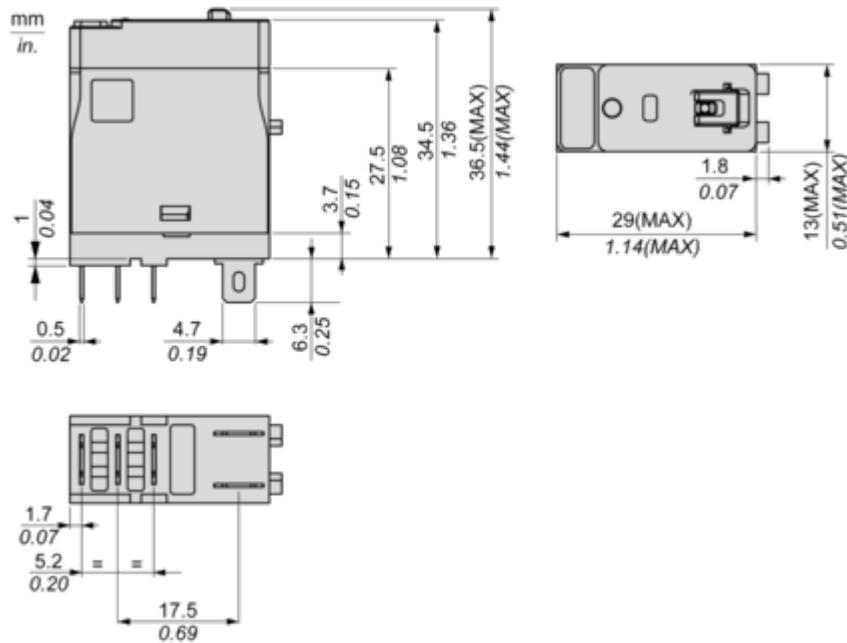
[No need of specific recycling operations](#)

Take-back

No

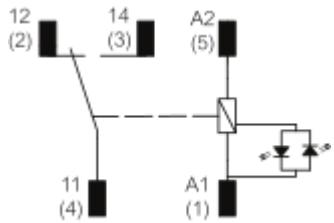
## Dimensions Drawings

## Dimensions



Connections and Schema

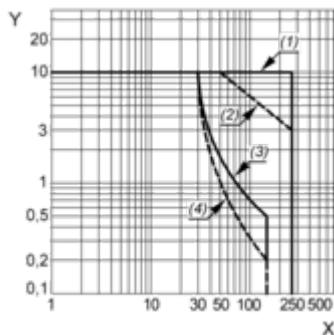
Wiring Diagram



## Performance Curves

Performance Curves

## Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

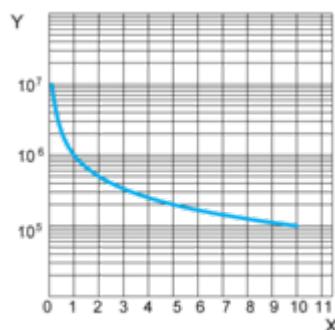
(2) AC Inductive Load  $\cos(\phi)=0.4$

(3) DC Resistive Load

(4) DC Inductive Load ( $L/R=7\text{ms}$ )

## Life Expectancy

Resistive Load

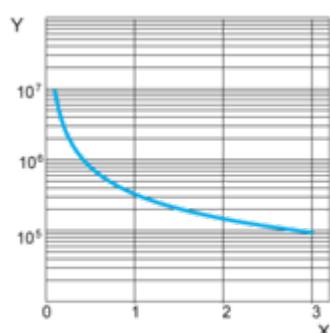


X : Contact Current (A)

Y : Operating Cycle Number

## Life Expectancy

Inductive Load



X : Contact Current (A)

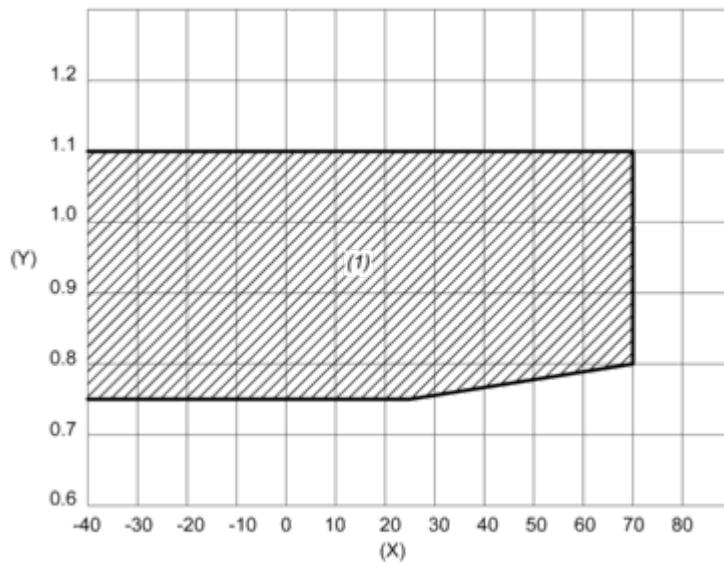
Y : Operating Cycle Number

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

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**Coil Operating Range**

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**DC Coil Operating Range VS Ambient Temperature**

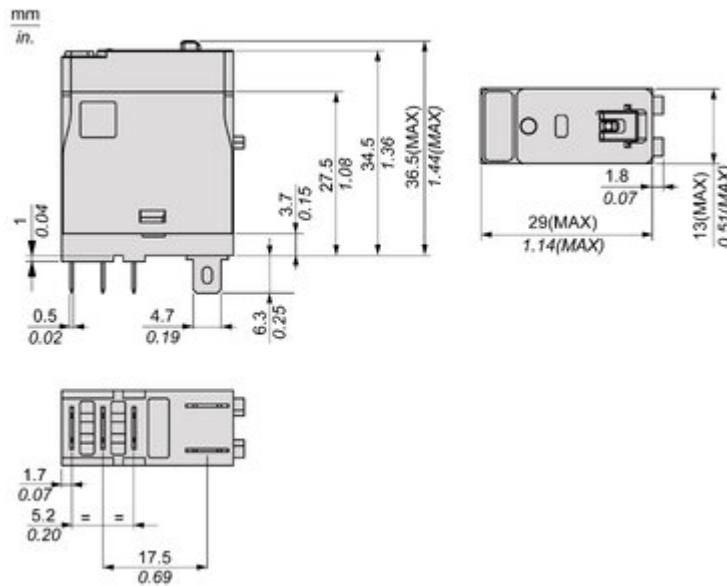
X : Ambient temperature ( $^{\circ}\text{C}$ )

Y : Coil voltage ( $U/U_{c}$ )

(1) Permitted operating range area

## Technical Illustration

## Dimensions



## Offer Marketing Illustration

## Product benefits / Features



## Offer Marketing Illustration

## Product benefits / Features

## Technical Benefits

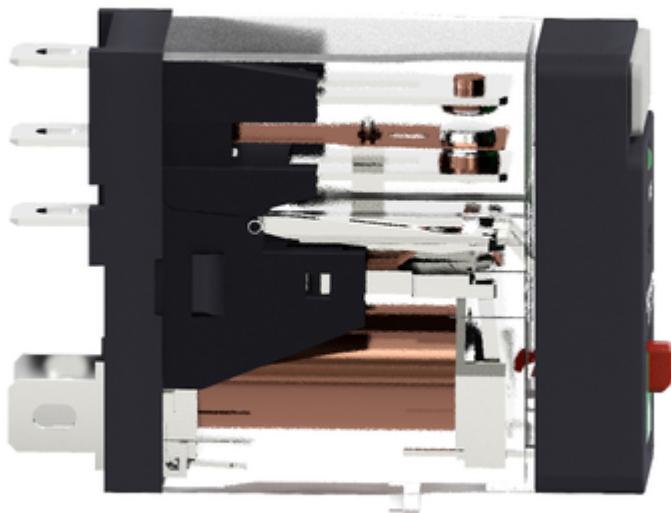
### Harmony RXG Relay



Image of product / Alternate images

Alternative

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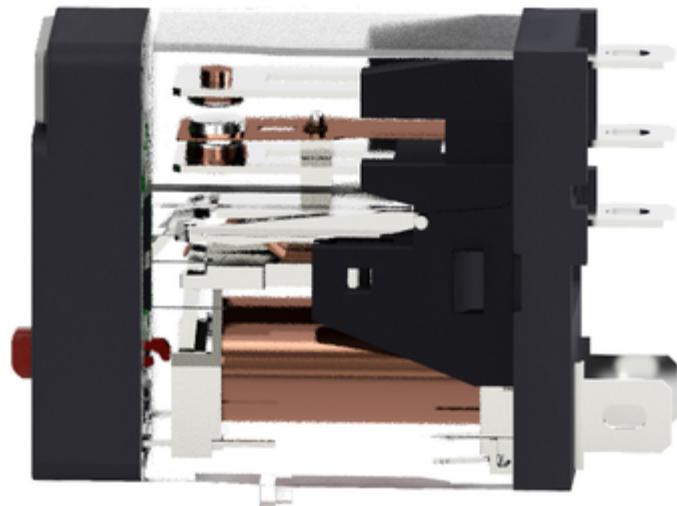


Image of product in real life situation

