

# Product data sheet

Specifications



interface plug in relay, Harmony  
Electromechanical Relays, 5A, 2CO,  
with LED, 24V AC

RXG23B7

Product availability: Non-Stock - Not 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	2 C/O
[Uc] control circuit voltage	24 V AC
[Ithe] conventional enclosed thermal current	5 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	>= 0.3 Uc AC
Load current	5 A 250 V AC
Minimum switching capacity	50 mW at 10 mA, 5 V DC
Maximum switching capacity	1250 VA
Control Type	Without 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.

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

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
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	0.04 lb(US) (0.02 kg)

## Environment

Standards	IEC 61810-1 UL 508 CSA C22.2 No 14
Product Certifications	UL CSA EAC CE DNV-GL
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Ambient Air Temperature for Operation	-40...158 °F (-40...70 °C)
IP Degree of Protection	IP40
Relative humidity	10...85 %
Vibration resistance	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

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3606480689215
Returnability	Yes
Country of origin	CN

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.61 in (4.100 cm)
Package 1 Width	0.51 in (1.300 cm)
Package 1 Length	1.22 in (3.100 cm)
Package 1 Weight	0.705 oz (20.000 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.38 in (3.500 cm)
Package 2 Width	3.27 in (8.300 cm)


Package 2 Length	3.58 in (9.100 cm)
Package 2 Weight	7.901 oz (224.000 g)
Unit Type of Package 3	S01
Number of Units in Package 3	200
Package 3 Height	5.91 in (15.000 cm)
Package 3 Width	5.91 in (15.000 cm)
Package 3 Length	15.75 in (40.000 cm)
Package 3 Weight	10.474 lb(US) (4.751 kg)

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 >](#)

<div>Environmental footprint</div>	
Carbon footprint (kg CO2 eq, Total Life cycle)	11

Use Better

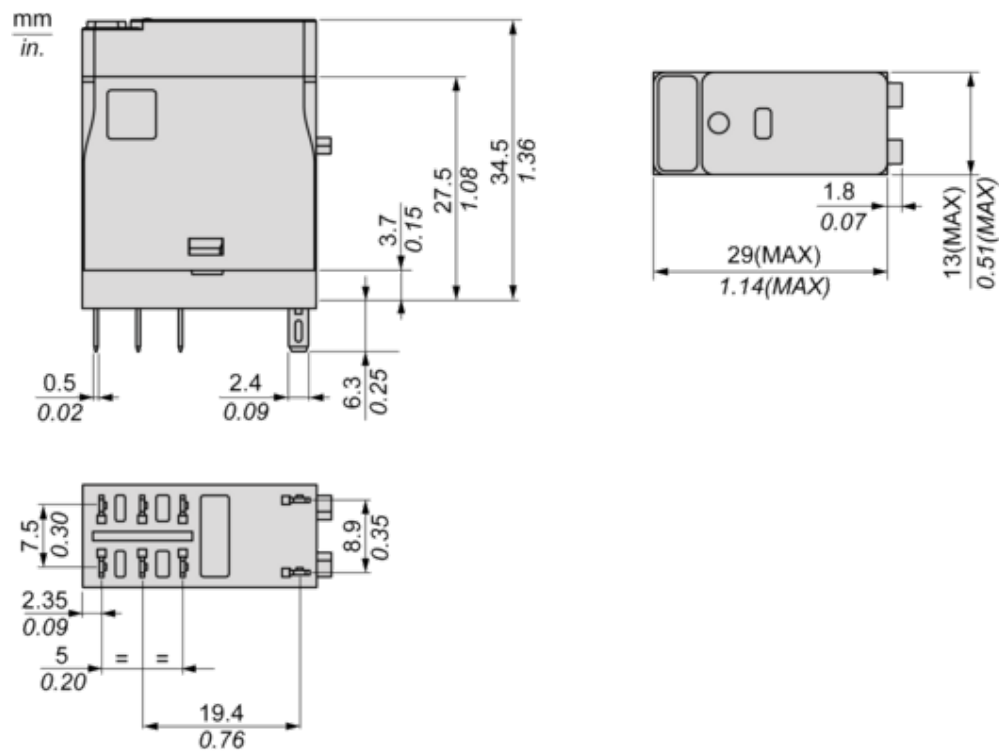
<div>Materials and Substances</div>	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	WARNING: This 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Use Again

<div>Repack and remanufacture</div>	
Circularity Profile	<a href="#">No need of specific recycling operations</a>
Take-back	No

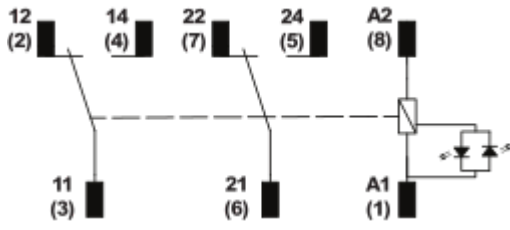
Dimensions Drawings

Dimensions



## Connections and Schema

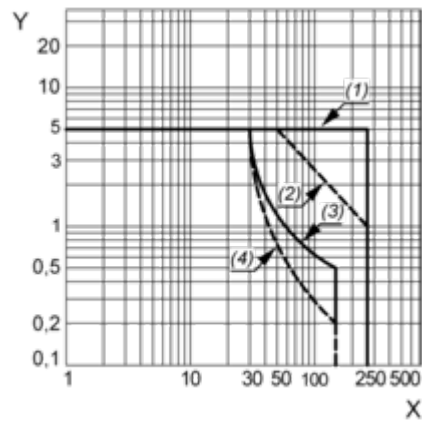
### Wiring Diagram



Performance Curves

Performance Curves

Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

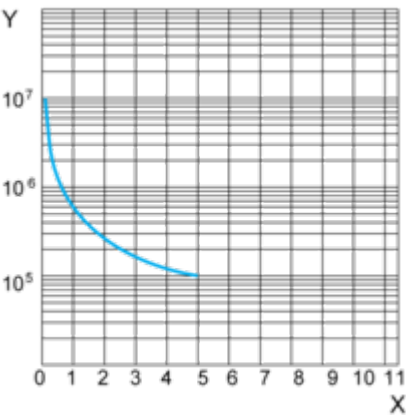
(2) AC Inductive Load  $\cos(\phi)=0.4$

(3) DC Resistive Load

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

Life Expectancy

Resistive Load

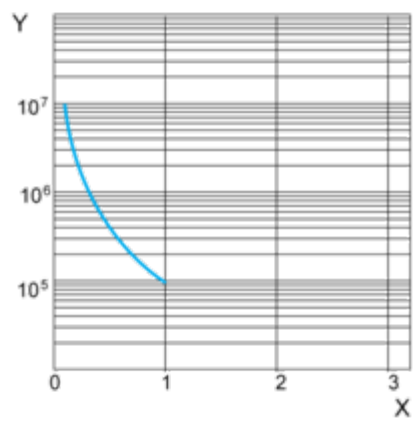


X : Contact Current (A)

Y : Operating Cycle Number

Life Expectancy

Inductive Load

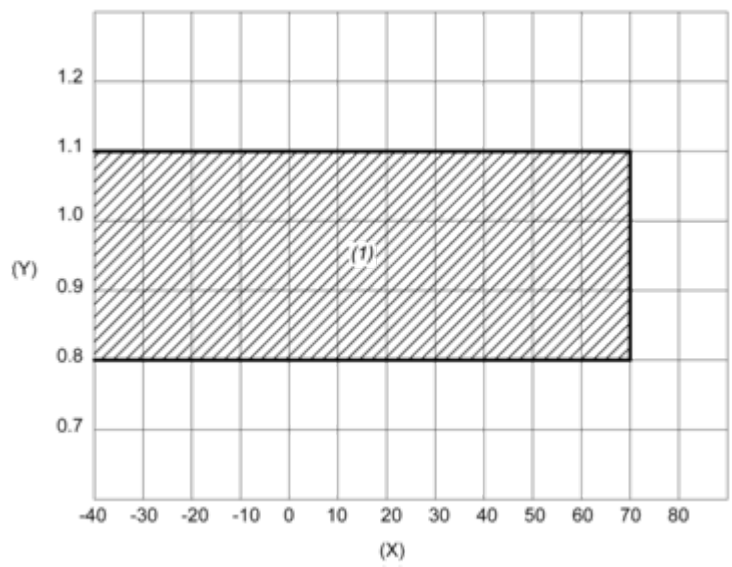


X : Contact Current (A)  
Y : Operating Cycle Number

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

Coil Operating Range

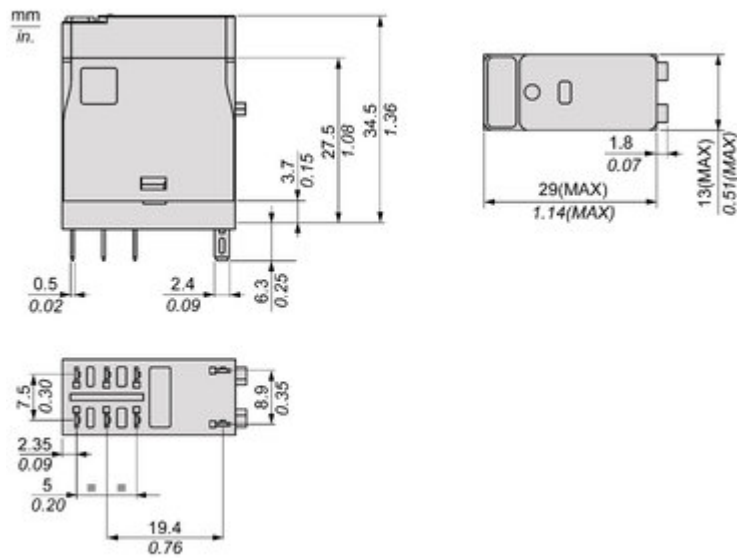
AC Coil Operating Range VS Ambient Temperature



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

Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

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### Features

Harmony RXG Relay



1 or 2 contacts  
faston type pin relay  
with only 16mm  
socket



Mechanical indicator  
for relay contact status



Removable legend  
for relay identification



One-finger push and  
lockable test button  
for contact testing



Save time and cost  
with pre-assembled  
relays



Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Harmony RXG Relay

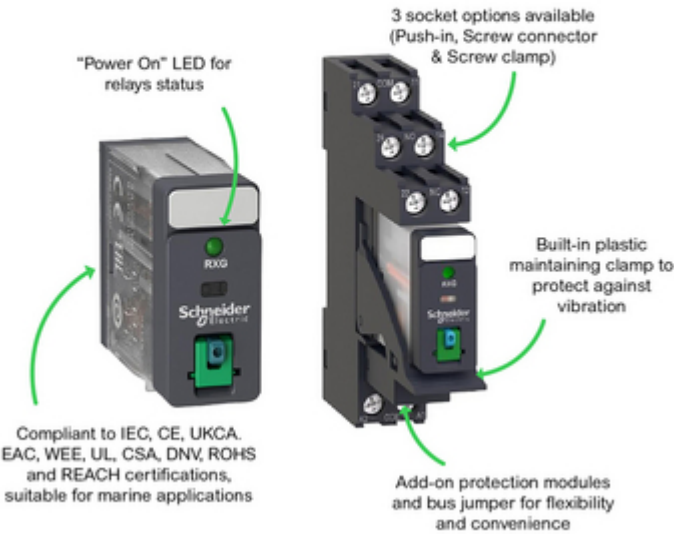
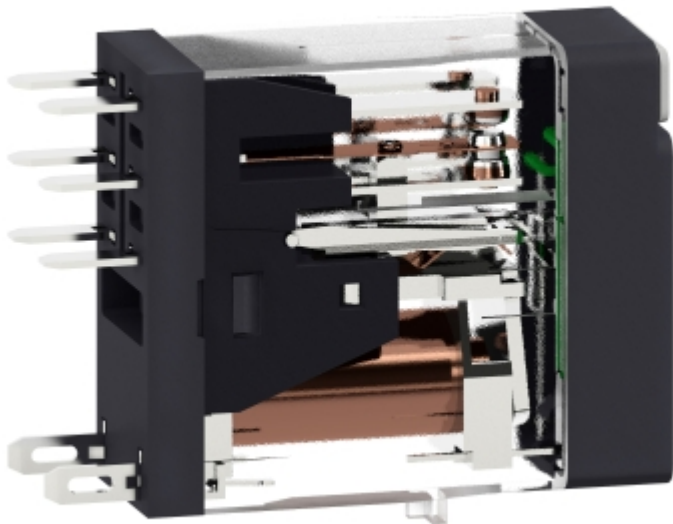
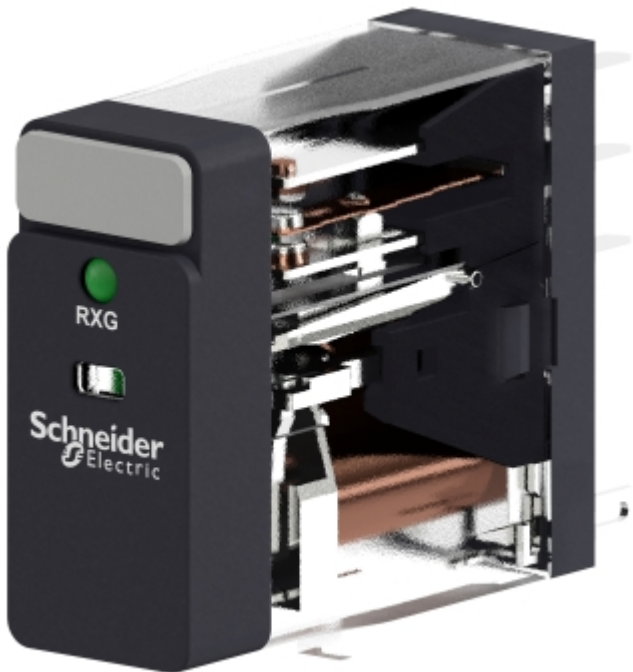


Image of product / Alternate images

Alternative

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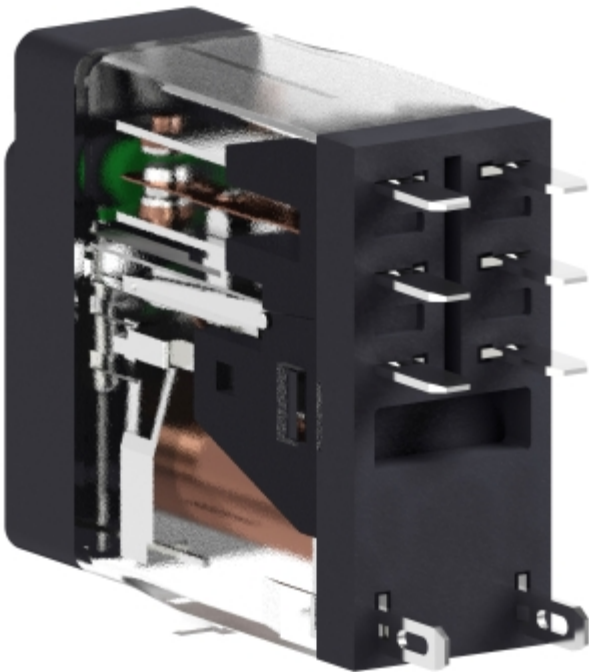




Image of product in real life situation

