

# Product data sheet

Specifications



interface plug in relay, Harmony Electromechanical Relays, 5A, 2CO, without LED, without lockable test button, 24V DC

RXG25BD

## 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 DC
[Ithe] conventional enclosed thermal current	5 A at -40...55 °C

## Complementary

status LED	Without
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
Maximum switching voltage	250 V AC 30 V DC
Drop-out voltage threshold	$\geq 0.1 Uc$ DC
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	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	$\leq 1800$ cycles/hour under load $\leq 18000$ 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
Overvoltage category	III

Protection category	RT I
Pollution degree	2
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	Silver alloy (AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub> )
Shape of pin	Flat (faston type)
Product weight	0.018 kg

## Environment

Standards	CSA C22.2 No 14 IEC 61810-1 UL 508
Product certifications	CSA CE EAC UL DNV-GL
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	1.500 cm
Package 1 Width	3.000 cm
Package 1 Length	3.500 cm
Package 1 Weight	19.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.500 cm
Package 2 Width	7.500 cm
Package 2 Length	8.200 cm
Package 2 Weight	207.000 g
Unit Type of Package 3	S01
Number of Units in Package 3	200
Package 3 Height	15.000 cm
Package 3 Width	15.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	5.196 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 >](#)

### Environmental footprint

Total lifecycle Carbon footprint

7

## 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](#)

## Use Again

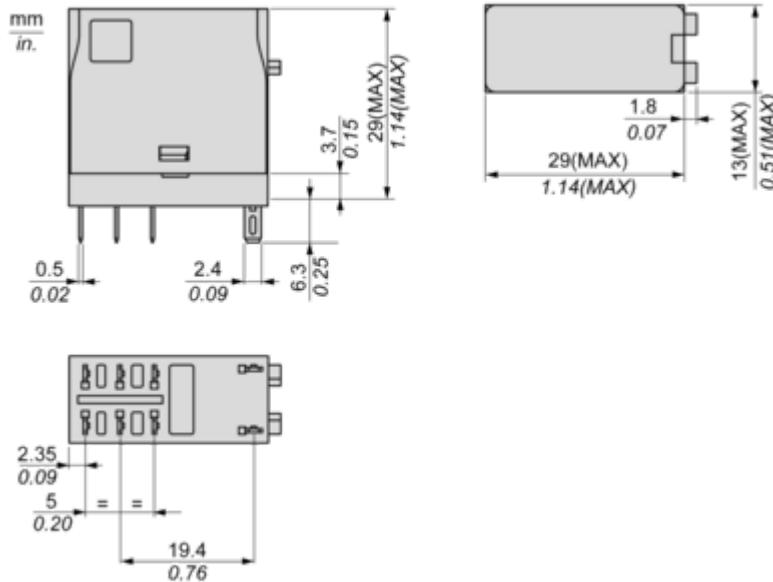
### Repack and remanufacture

End of life manual availability No need of specific recycling operations

Take-back No

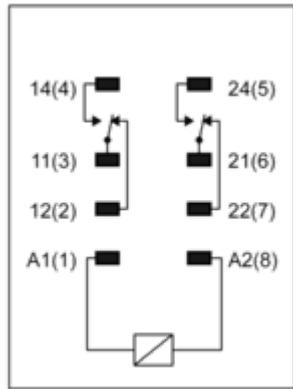
## Dimensions Drawings

## Dimensions



Connections and Schema

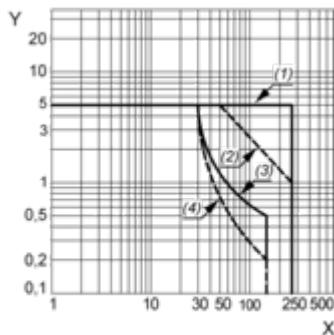
Wiring Diagram



## Performance Curves

Performance Curves

## Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

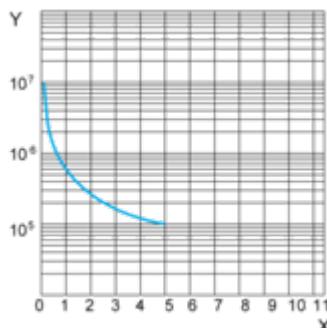
(2) AC Inductive Load  $\cos(\Phi)=0.4$

(3) DC Resistive Load

(4) DC Inductive Load ( $L/R=7ms$ )

## Life Expectancy

Resistive Load

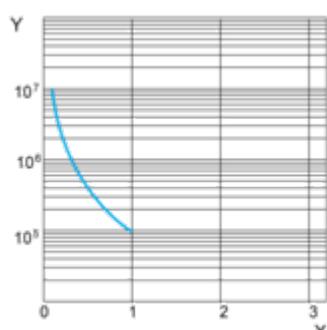


X : Contact Current (A)

Y : Operating Cycle Number

## Life Expectancy

Inductive Load



X : Contact Current (A)

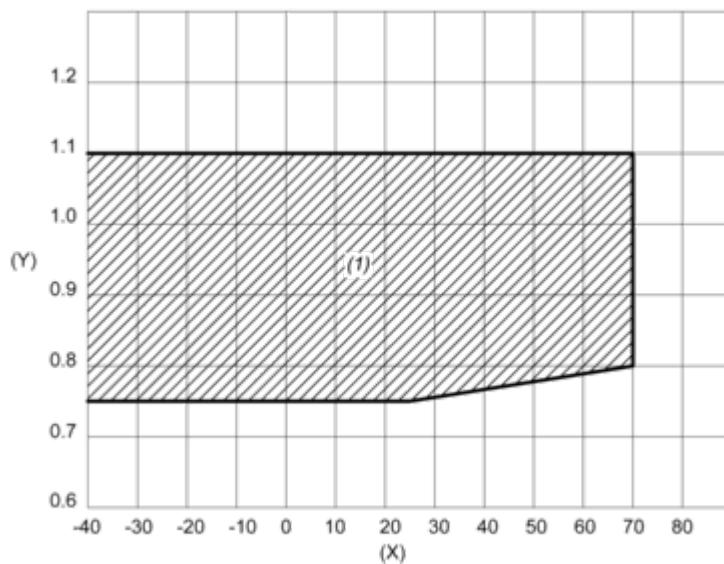
Y : Operating Cycle Number

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

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**Coil Operating Range**

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**DC Coil Operating Range VS Ambient Temperature**

X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area

## Technical Illustration

## Dimensions

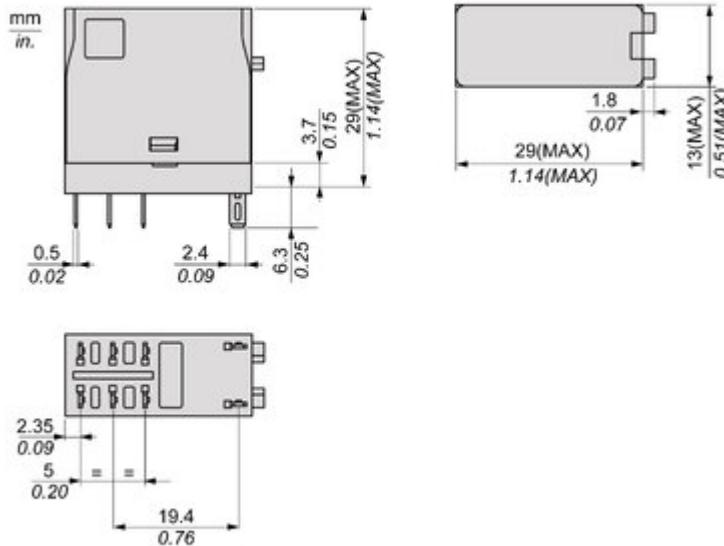


Image of product / Alternate images

Alternative

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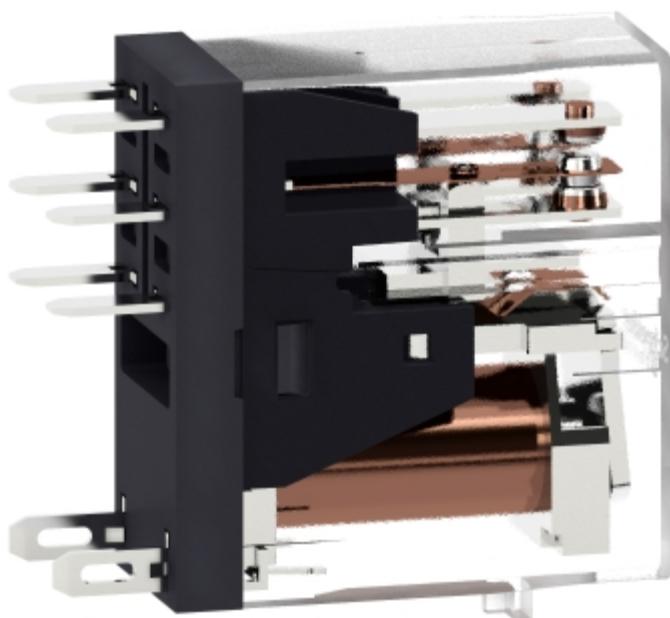




Image of product in real life situation

