

Product data sheet

Specifications



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

RXG12B7

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 AC
[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	$\geq 0.3 U_c$ AC
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.

Dielectric strength	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced 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 CSA C22.2 No 14 UL 508
Product Certifications	EAC CSA UL 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	3606480688669
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.65 in (4.2 cm)
Package 1 Width	0.51 in (1.3 cm)
Package 1 Length	1.14 in (2.9 cm)
Package weight(Lbs)	0.8 oz (22.0 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.38 in (3.5 cm)
Package 2 Width	3.27 in (8.3 cm)

Package 2 Length	3.58 in (9.1 cm)
Package 2 Weight	8.0 oz (226.0 g)
Unit Type of Package 3	S01
Number of Units in Package 3	200
Package 3 Height	5.91 in (15.0 cm)
Package 3 Width	5.91 in (15.0 cm)
Package 3 Length	15.75 in (40.0 cm)
Package 3 Weight	10.76 lb(US) (4.88 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

Carbon footprint (kg CO2 eq, Total Life cycle)	11
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Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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REACH Regulation	REACH Declaration
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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
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Use Again

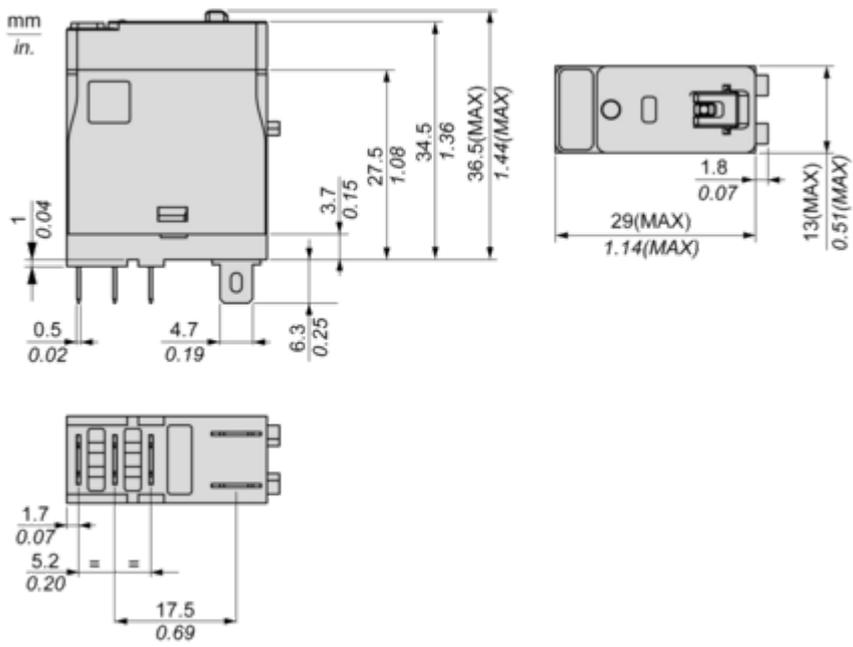
Repack and remanufacture

Circularity Profile	No need of specific recycling operations
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Take-back	No
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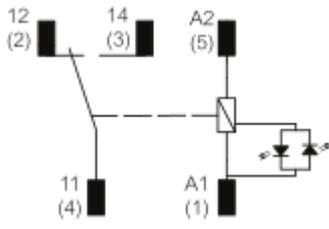
Dimensions Drawings

Dimensions



Connections and Schema

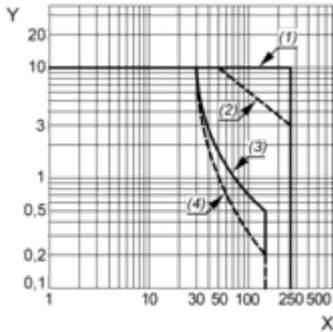
Wiring Diagram



Performance Curves

Performance Curves

Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

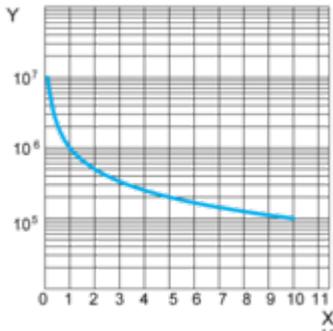
(2) AC Inductive Load $\cos(\phi)=0.4$

(3) DC Resistive Load

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

Life Expectancy

Resistive Load

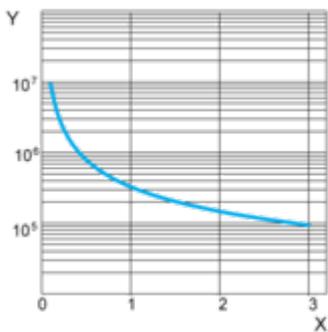


X : Contact Current (A)

Y : Operating Cycle Number

Life Expectancy

Inductive Load



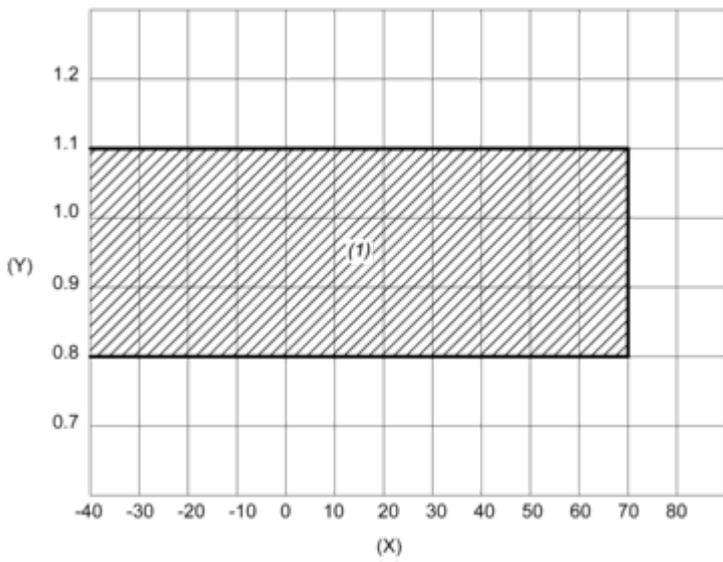
X : Contact Current (A)

Y : Operating Cycle Number

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

Coil Operating Range

AC Coil Operating Range VS Ambient Temperature



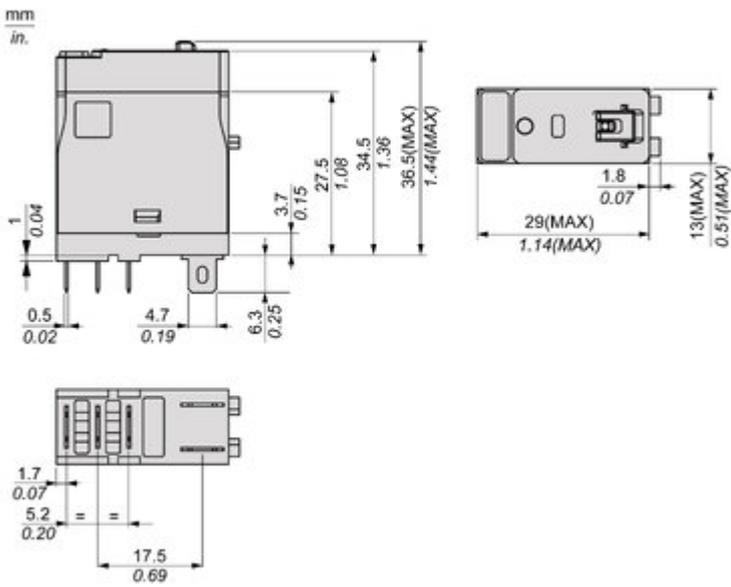
X : Ambient temperature (°C)

Y : Coil voltage (U/U_c)

(1) Permitted operating range area

Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

The infographic features a central image of a Schneider RXG relay. Surrounding it are five circular icons, each with a corresponding text description of a feature. The background is a solid green color.

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





Image of product in real life situation

