

# Product datasheet

Specifications



## Plug in relay, Harmony Relay, interface, RXG, 1 C/O, standard 100 V AC, 10 A, with LTB and LED

RXG12K7

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

### Main

Range of product	Harmony Relay
Series name	Interface relay
Product or component type	Plug-in relay
Device short name	RXG
Contacts type and composition	1 C/O
[Ithe] conventional enclosed thermal current	10 A at -40...55 °C
Local signalling	Flag

### Complementary

status LED	With
Electrical durability	100000 cycles for NO resistive load at 55 °C 100000 cycles for NC resistive load at 55 °C
Mounting position	Any position
colour of cover	Standard
[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	$\geq 0.3 U_c$ AC
[Ie] rated operational current	10 A at 30 V (DC) conforming to UL 10 A at 30 V (DC) conforming to IEC 10 A at 250 V (AC) conforming to UL 10 A at 250 V (AC) conforming to IEC
Load current	10 A at 250 V AC
Minimum switching capacity	500 mW at 100 mA, 5 V DC
Maximum switching capacity	2500 VA
Control type	Lockable test button
torque value	0.8 N.m
Average resistance	4550 Ohm at 23 °C +/- 10 %
Contact resistance	100 mOhm
Insulation resistance	1000 MOhm at 500 V DC
Electrical insulation class	Class F
Mechanical durability	10000000 cycles

<b>Safety reliability data</b>	B10d = 100000
<b>Operating rate</b>	<= 1800 cycles/hour under load <= 18000 cycles/hour no-load
<b>Utilisation coefficient</b>	20 %
<b>Operating time</b>	20 ms
<b>reset time</b>	20 ms
<b>Dielectric strength</b>	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced insulation
<b>[Uimp] rated impulse withstand voltage</b>	1200 V AC between contacts with micro disconnection 6000 V between coil and contact with reinforced insulation 1500 V between terminals and case with basic insulation
<b>Overvoltage category</b>	III
<b>Protection category</b>	RT I
<b>Pollution degree</b>	2
<b>Device presentation</b>	Complete product
<b>Contacts material</b>	Silver alloy (AgSnO2In2O3)
<b>Net weight</b>	0.02 kg

## Environment

<b>Standards</b>	CSA C22.2 No 14 IEC 61810-1 UL 508
<b>Product certifications</b>	CE UL CSA DNV
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Ambient air temperature for operation</b>	-40...70 °C
<b>IP degree of protection</b>	IP40
<b>Relative humidity</b>	10...85 %
<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

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1

## Contractual warranty

<b>Warranty (in months)</b>	18
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## 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 >](#)

### Use Longer



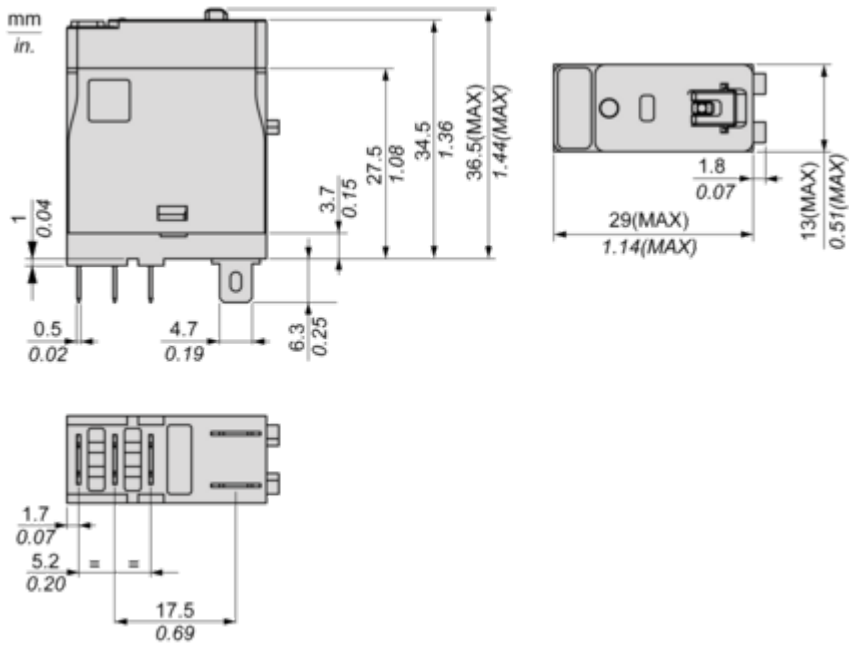
#### Lifetime extension

Repair

No

Dimensions Drawings

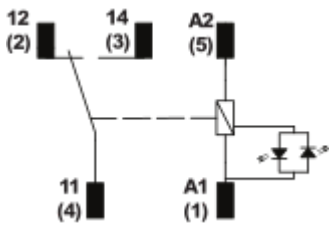
Dimensions



Connections and Schema

Wiring Diagram

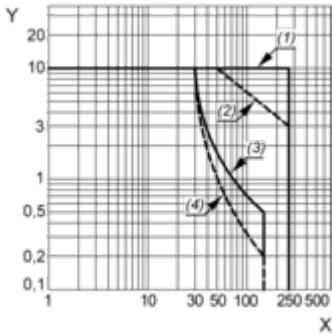
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Performance Curves

Performance Curves

Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

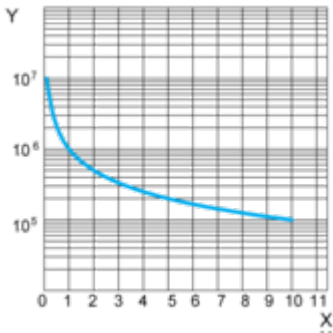
(2) AC Inductive Load  $\cos(\phi)=0.4$

(3) DC Resistive Load

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

Life Expectancy

Resistive Load

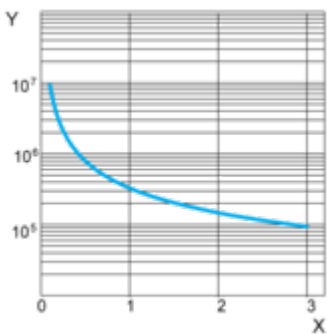


X : Contact Current (A)

Y : Operating Cycle Number

Life Expectancy

Inductive Load



X : Contact Current (A)

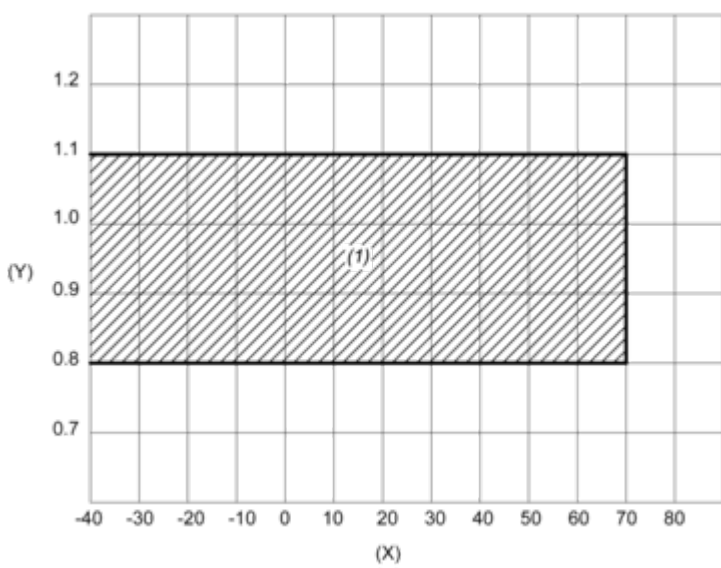
Y : Operating Cycle Number

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

Coil Operating Range

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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

Technical Illustration

Dimensions

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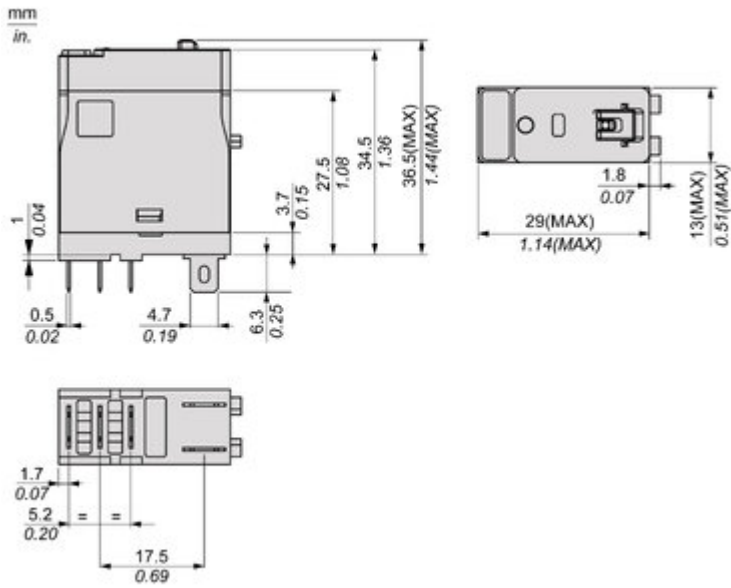


Image of product / Alternate images

Alternative

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