

# Product data sheet

Specifications



interface pre assembled plug in relay with socket, Harmony Electromechanical Relays, 5A, 2CO, without LED, lockable test button, 230V AC

RXG21P7PV

## Main

Range of product	Harmony Electromechanical Relays
Series name	RXG series
Product or component type	Pre-assembled plug-in relay with socket
Relay type	Interface relay
Contacts type and composition	2 C/O
[Uc] control circuit voltage	230 V AC
[Ith] conventional enclosed thermal current	5 A

## Complementary

status LED	Without
[Ui] rated insulation voltage	250 V conforming to IEC
Removable legend	With
Maximum switching voltage	250 V
Drop-out voltage threshold	$\geq 0.3 U_c$ AC
Load current	5 A
Minimum switching capacity	50 mW at 10 mA, 5 V DC
Maximum switching capacity	1250 VA AC 150 W DC
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	$\leq 1800$ cycles/hour under load $\leq 18000$ cycles/hour no-load
Utilisation coefficient	20 %
Operating time	20 ms
Reset time	20 ms
Contact terminal arrangement	Separate

<b>Connections - terminals</b>	Connector, 1 x 0.25...1 x 2.5 mm <sup>2</sup> (AWG 22...AWG 14) flexible with cable end Connector, 2 x 0.25...2 x 1 mm <sup>2</sup> (AWG 22...AWG 17) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm <sup>2</sup> (AWG 20...AWG 14) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm <sup>2</sup> (AWG 20...AWG 16) solid without cable end
<b>Dielectric strength</b>	1000 V AC between contacts with micro disconnection 1300 V between terminals and base with basic insulation 3000 V between terminals and LTB area with basic insulation 3000 V AC between poles with basic insulation 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> In <sub>2</sub> O <sub>3</sub> )
<b>Shape of pin</b>	Flat (faston type)
<b>Net weight</b>	0.065 kg

## Environment

<b>Standards</b>	IEC 61810-1 CSA C22.2 No 14 UL 508 IEC 61984
<b>Product certifications</b>	EAC CSA UL CE DNV-GL
<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>	IP20
<b>Relative humidity</b>	10...85 %
<b>Vibration resistance</b>	3 gn, amplitude = +/- 1.5 mm (f = 10...150 Hz)in operation 5 gn, amplitude = +/- 1.5 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
<b>Package 1 Height</b>	7.300 cm
<b>Package 1 Width</b>	1.600 cm
<b>Package 1 Length</b>	8.000 cm
<b>Package 1 Weight</b>	63.000 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	30
<b>Package 2 Height</b>	8.700 cm
<b>Package 2 Width</b>	17.500 cm
<b>Package 2 Length</b>	27.400 cm
<b>Package 2 Weight</b>	2.102 kg

Unit Type of Package 3	S03
Number of Units in Package 3	180
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	13.154 kg

## Contractual warranty

Warranty	18 months
----------	-----------



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

9

## 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)

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

End of life manual availability

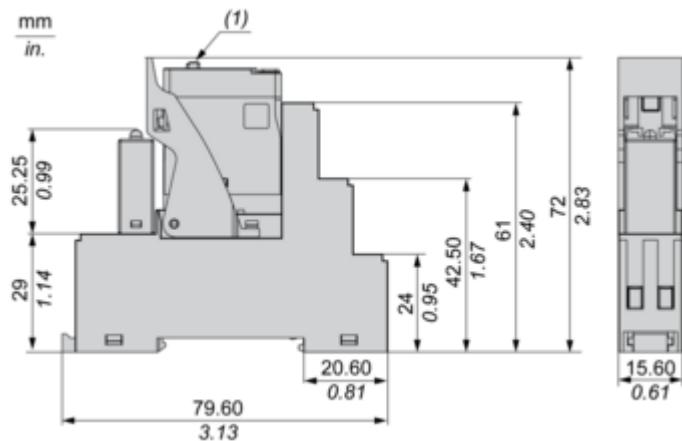
No need of specific recycling operations

Take-back

No

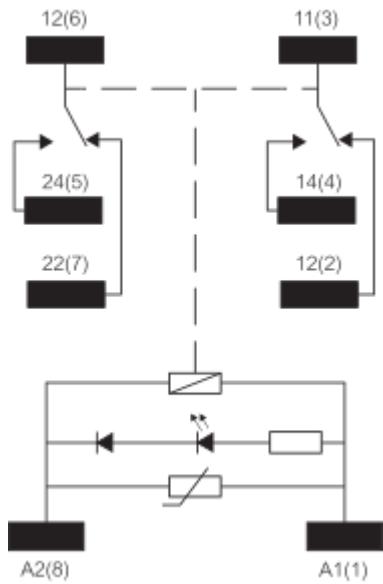
## Dimensions Drawings

## Dimensions



(1) Push button (if any)

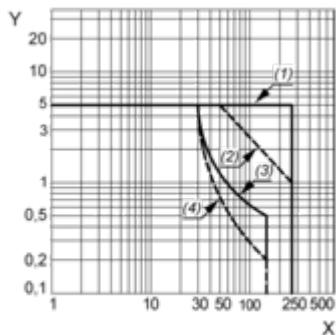
## Connections and Schema

Wiring Diagram

## Performance Curves

Performance Curves

## Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

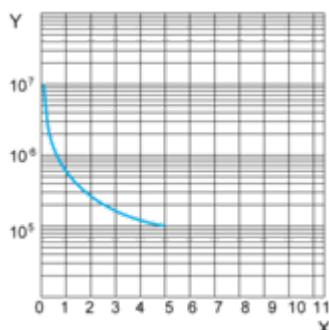
(2) AC Inductive Load  $\cos(\Phi)=0.4$

(3) DC Resistive Load

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

## Life Expectancy

Resistive Load

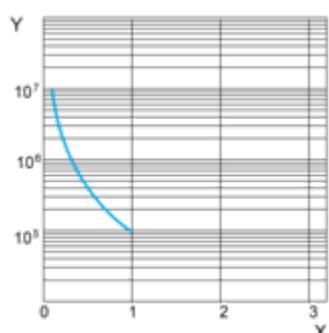


X : Contact Current (A)

Y : Operating Cycle Number

## Life Expectancy

Inductive Load



X : Contact Current (A)

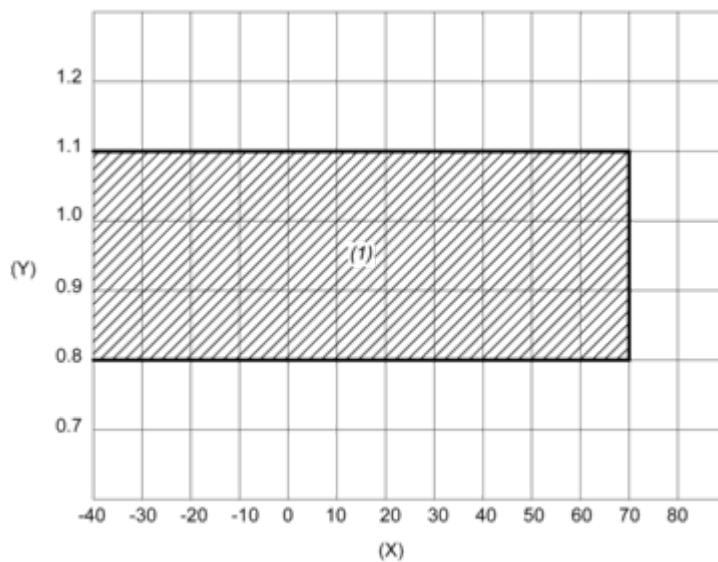
Y : Operating Cycle Number

**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

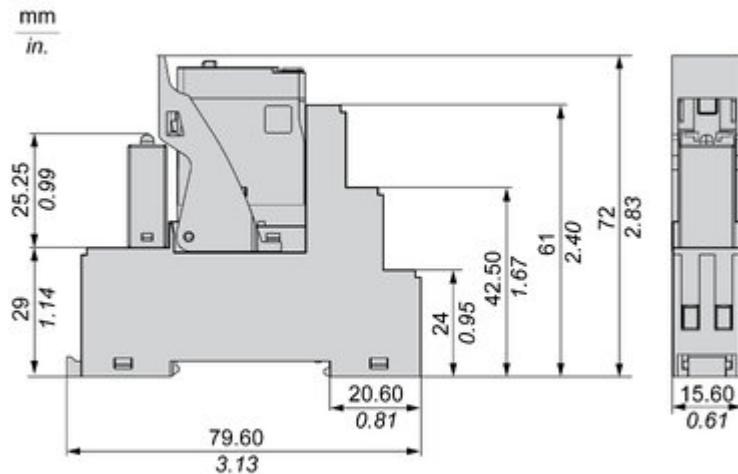
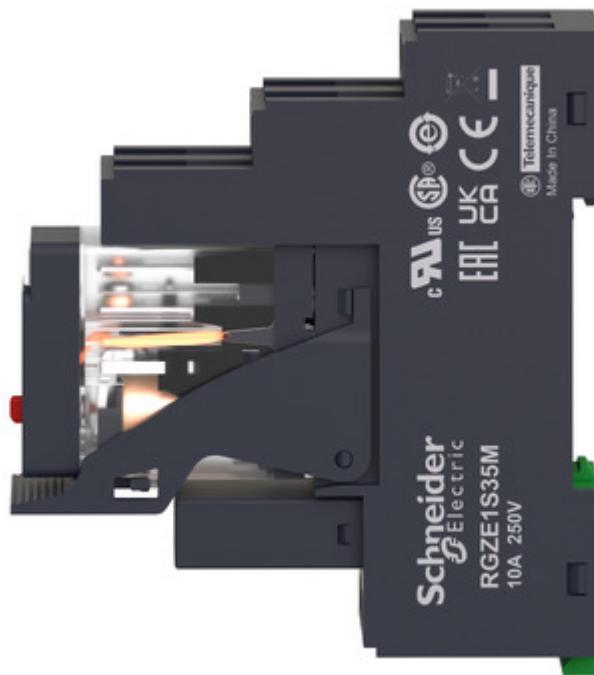
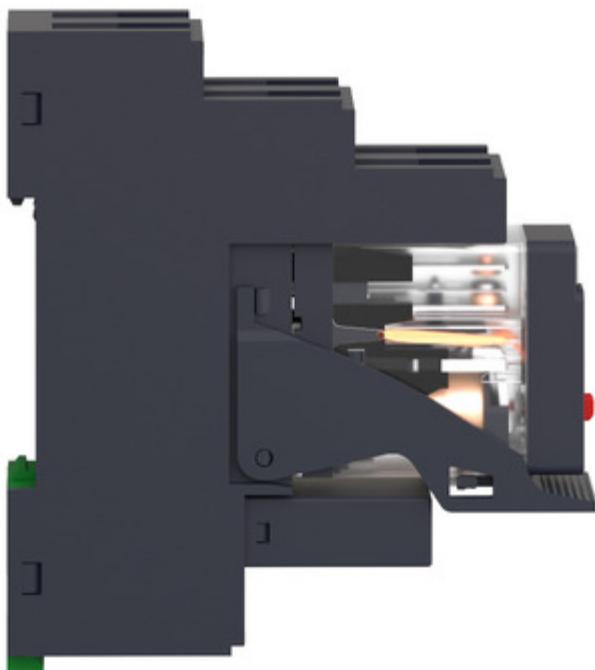


Image of product / Alternate images

## Alternative

---





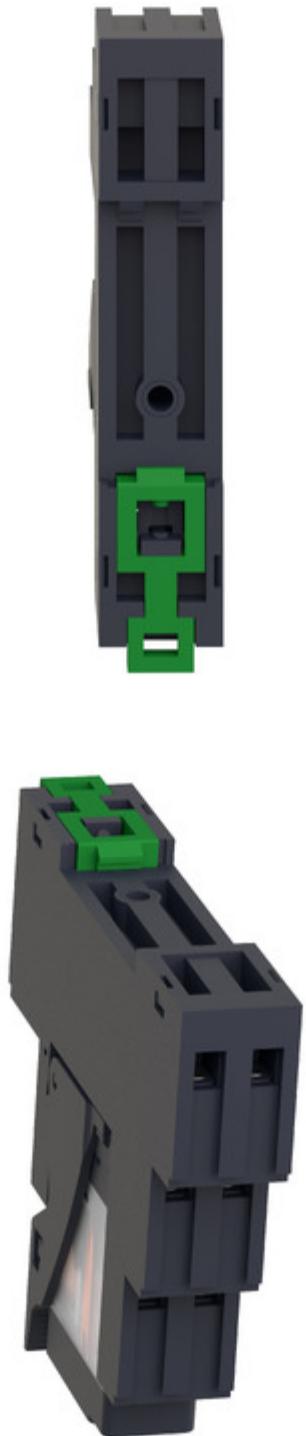


Image of product in real life situation

