

# Product data sheet

Specifications



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

RXG23P7PV

## 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                                |
| [Ithe] conventional enclosed thermal current | 5 A                                     |

## Complementary

|                                |                                                                            |
|--------------------------------|----------------------------------------------------------------------------|
| status LED                     | With                                                                       |
| Electrical durability          | 100000 cycles NO resistive at 55 °C<br>100000 cycles NC resistive at 55 °C |
| [Ui] rated insulation voltage  | 250 V IEC                                                                  |
| Removable legend               | With                                                                       |
| Maximum switching voltage      | 250 V                                                                      |
| Drop-out voltage threshold     | >= 0.3 Uc AC                                                               |
| [Ie] rated operational current | 10 A 30 VDC)UL<br>10 A 30 VDC)IEC<br>10 A 250 VAC)UL<br>10 A 250 VAC)IEC   |
| Load current                   | 5 A                                                                        |
| Minimum switching capacity     | 50 mW 10 mA, 5 V DC                                                        |
| Maximum switching capacity     | 1250 VA AC<br>150 W DC                                                     |
| Control type                   | Without lockable test button                                               |
| Average resistance             | 23500 Ohm 73 °F (23 °C) +/- 15 %                                           |
| Contact resistance             | 100 mOhm                                                                   |
| Insulation resistance          | 1000 MOhm 500 V DC                                                         |
| Electrical insulation class    | Class F                                                                    |
| Mechanical durability          | 10000000 cycles                                                            |
| Safety reliability data        | B10d = 100000                                                              |
| Operating rate                 | <= 1800 cycles/hour under load<br><= 18000 cycles/hour no-load             |

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

|                                        |                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Utilisation coefficient                | 20 %                                                                                                                                                                                                                                                                                                             |
| Operating time                         | 20 ms                                                                                                                                                                                                                                                                                                            |
| Reset time                             | 20 ms                                                                                                                                                                                                                                                                                                            |
| Contact terminal arrangement           | Separate                                                                                                                                                                                                                                                                                                         |
| Connections - terminals                | Connector, 1 x 0.25...1 x 2.5 mm² AWG 22...AWG 14) flexible with cable end<br>Connector, 2 x 0.25...2 x 1 mm² AWG 22...AWG 17) flexible with cable end<br>Connector, 1 x 0.5...1 x 2.5 mm² AWG 20...AWG 14) solid without cable end<br>Connector, 2 x 0.5...2 x 1.5 mm² AWG 20...AWG 16) solid without cable end |
| Dielectric strength                    | 1000 V AC between contacts micro disconnection<br>1300 V between terminals and base basic insulation<br>3000 V between terminals and LTB area basic insulation<br>3000 V AC between poles basic insulation<br>5000 V AC between coil and contact reinforced insulation                                           |
| [Uimp] rated impulse withstand voltage | 1200 V AC between contacts with micro disconnection<br>6000 V between coil and contact with reinforced insulation<br>1500 V between terminals and case 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                             | 0.143 lb(US) (0.065 kg)                                                                                                                                                                                                                                                                                          |

## Environment

|                                       |                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------|
| Standards                             | IEC 61810-1<br>CSA C22.2 No 14<br>UL 508<br>IEC 61984                                    |
| Product certifications                | EAC<br>CSA<br>UL<br>CE<br>DNV                                                            |
| 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               | IP20                                                                                     |
| Relative humidity                     | 10...85 %                                                                                |
| Vibration resistance                  | 3 gn +/- 1.5 mm 10...150 Hz)in operation<br>5 gn +/- 1.5 mm 10...150 Hz)not in operation |

## Packing Units

|                              |                     |
|------------------------------|---------------------|
| Unit Type of Package 1       | PCE                 |
| Number of Units in Package 1 | 1                   |
| Package 1 Height             | 3.134 in (7.960 cm) |
| Package 1 Width              | 0.614 in (1.560 cm) |
| Package 1 Length             | 2.835 in (7.200 cm) |
| Package 1 Weight             | 2.222 oz (63.000 g) |

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 2       | BB1                       |
| Number of Units in Package 2 | 30                        |
| Package 2 Height             | 3.543 in (9.000 cm)       |
| Package 2 Width              | 6.925 in (17.590 cm)      |
| Package 2 Length             | 10.709 in (27.200 cm)     |
| Package 2 Weight             | 4.713 lb(US) (2.138 kg)   |
| Unit Type of Package 3       | S03                       |
| Number of Units in Package 3 | 180                       |
| Package 3 Height             | 11.811 in (30.000 cm)     |
| Package 3 Width              | 11.811 in (30.000 cm)     |
| Package 3 Length             | 15.748 in (40.000 cm)     |
| Package 3 Weight             | 29.487 lb(US) (13.375 kg) |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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                       | 12 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.5 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 12 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                         |
| Packaging without single use plastic   | Yes                                                                         |
| EU RoHS Directive                      | <a href="#">Compliant</a>                                                   |
| REACH Regulation                       | <a href="#">Free of Substances of Very High Concern above the threshold</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again

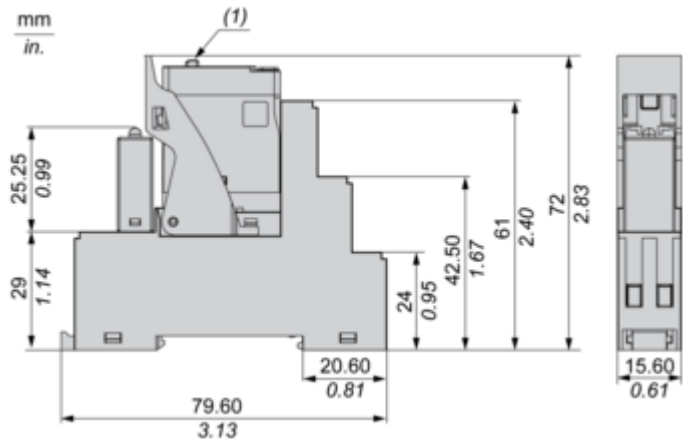


### Repack and remanufacture

|                     |                                         |
|---------------------|-----------------------------------------|
| Circularity Profile | <a href="#">End of Life Information</a> |
| Take-back           | No                                      |

Dimensions Drawings

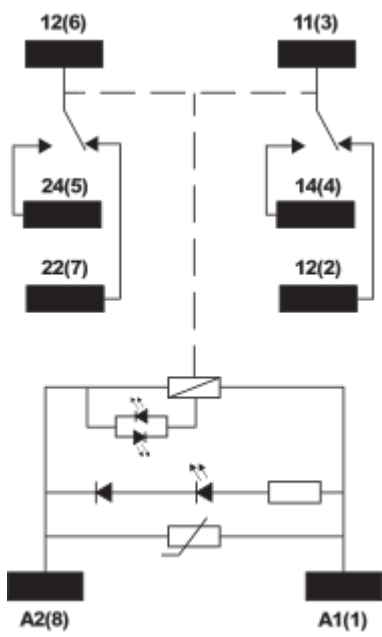
Dimensions



(1) Push button (if any)

Connections and Schema

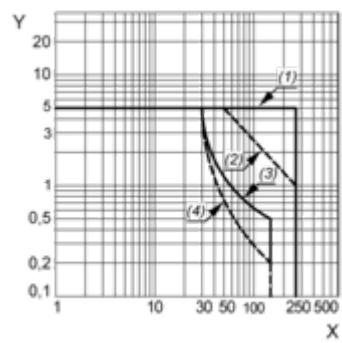
Wiring Diagram



Performance Curves

Performance Curves

Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

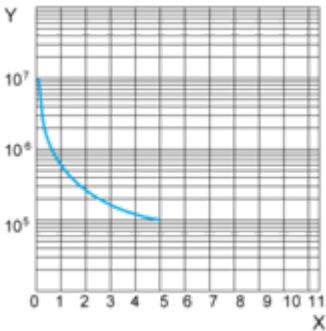
(2) AC Inductive Load cos(Ø)=0.4

(3) DC Resistive Load

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

Life Expectancy

Resistive Load

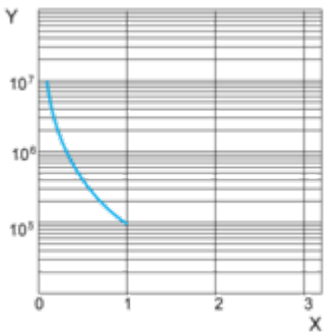


X : Contact Current (A)

Y : Operating Cycle Number

Life Expectancy

Inductive Load



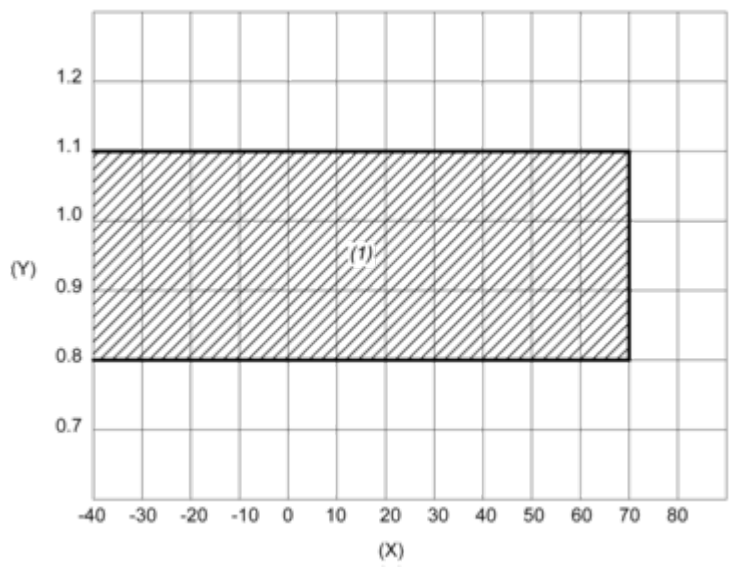
X : Contact Current (A)

Y : Operating Cycle Number

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

Coil Operating Range

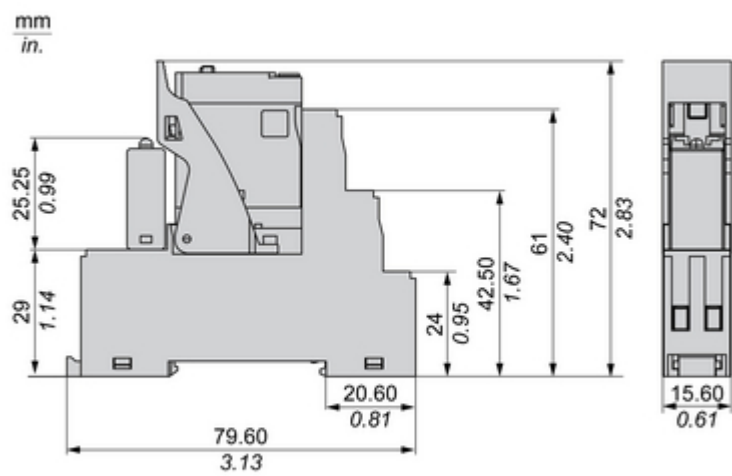
AC Coil Operating Range VS Ambient Temperature



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

Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

### 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

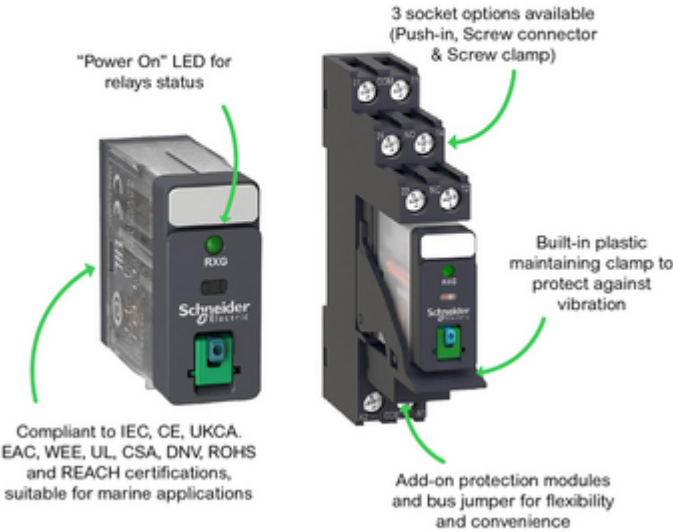


Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Harmony RXG Relay



Offer Marketing Illustration

Product benefits / Features

Avantages techniques  
Relais Harmony RXG



Offer Marketing Illustration

Product benefits / Features

### Caractéristiques

Relais Harmony RXG



Relais à broche de type faston avec 1 ou 2 contacts, uniquement avec une douille de 16 mm



Indicateur mécanique du statut des contacts du relais



Etiquette amovible pour l'identification du relais



Gain de temps et de coûts avec les relais pré-assemblés



Bouton de test verrouillable et actionnable d'un doigt pour tester les contacts

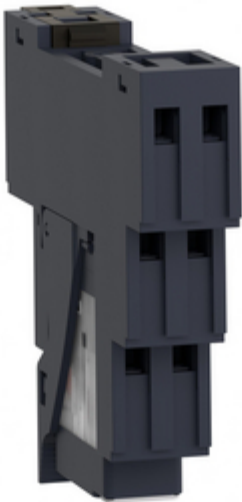


Image of product / Alternate images

Alternative

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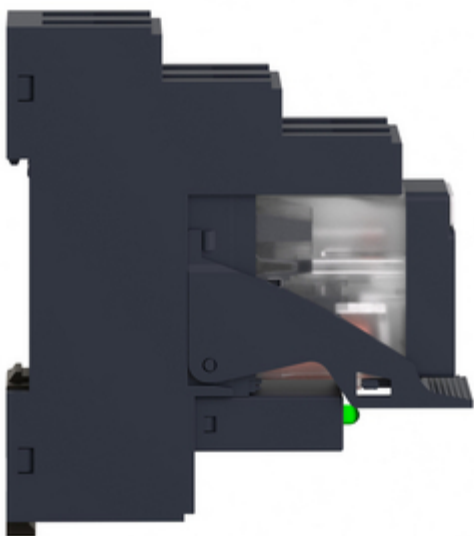


Image of product in real life situation

