

# Product datasheet

Specifications



Harmony. Interface plug-in relay pre-assembled. 10 A. 1 CO. with LED. with lockable test button. with protection circuit. 230 VAC

RXG12P7PV

Price: 363.91 ZAR

## Main

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| Range Of Product                             | Harmony Electromechanical Relays        |
| Series Name                                  | Interface relay                         |
| Product Or Component Type                    | Pre-assembled plug-in relay with socket |
| Device Short Name                            | RXG                                     |
| Contacts Type And Composition                | 1 C/O                                   |
| [Ithe] Conventional Enclosed Thermal Current | 10 A                                    |

## Complementary

|                                |                                                                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status Led                     | With                                                                                                                                                     |
| [Ie] Rated Operational Current | 10 A at 30 V (DC) conforming to UL<br>10 A at 30 V (DC) conforming to IEC<br>10 A at 250 V (AC) conforming to IEC<br>10 A at 250 V (AC) conforming to UL |
| Electrical Durability          | 100000 cycles resistive load                                                                                                                             |
| Coil Resistance                | 23500 Ohm +/- 15 %                                                                                                                                       |
| Shock Resistance               | 20 gn in operation<br>100 gn not in operation                                                                                                            |
| Mounting Position              | Any position                                                                                                                                             |
| Average Coil Consumption       | 0.96 VA AC 50...60 Hz                                                                                                                                    |
| [Uc] Control Circuit Voltage   | 230 V AC 50/60 Hz                                                                                                                                        |
| Colour Of Cover                | Transparent                                                                                                                                              |
| Drop-Out Voltage Threshold     | >= 0.3 Uc AC                                                                                                                                             |
| Load Current                   | 10 A                                                                                                                                                     |
| Minimum Switching Capacity     | 500 mW at 100 mA, 5 V DC                                                                                                                                 |
| Maximum Switching Capacity     | 2500 VA AC<br>300 W DC                                                                                                                                   |
| Control Type                   | Lockable test button                                                                                                                                     |
| Torque Value                   | 0.8 N.m<br>0.79 N.m                                                                                                                                      |
| Contact Resistance             | 100 mOhm                                                                                                                                                 |
| Insulation Resistance          | 1000 MOhm at 500 V DC                                                                                                                                    |
| Electrical Insulation Class    | Class F                                                                                                                                                  |
| Mechanical Durability          | 10000000 cycles                                                                                                                                          |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

|                               |                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Reliability Data       | B10d = 100000                                                                                                                                                                                                                                                                                                        |
| Operating Time                | 20 ms                                                                                                                                                                                                                                                                                                                |
| Reset Time                    | 20 ms                                                                                                                                                                                                                                                                                                                |
| 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 |
| Overvoltage Category          | III                                                                                                                                                                                                                                                                                                                  |
| Maximum Switching Voltage     | 250 V                                                                                                                                                                                                                                                                                                                |
| Protection Category           | RT I                                                                                                                                                                                                                                                                                                                 |
| Operating Rate                | <= 1800 cycles/hour under load<br><= 18000 cycles/hour no-load                                                                                                                                                                                                                                                       |
| Pollution Degree              | 2                                                                                                                                                                                                                                                                                                                    |
| Utilisation Coefficient       | 20 %                                                                                                                                                                                                                                                                                                                 |
| [UI] Rated Insulation Voltage | 250 V conforming to IEC                                                                                                                                                                                                                                                                                              |
| Dielectric Strength           | 1000 V AC between contacts with micro disconnection<br>1300 V between terminals and base with basic insulation<br>3000 V between terminals and LTB area with basic insulation<br>5000 V AC between coil and contact with reinforced insulation                                                                       |
| Test Levels                   | Level A group mounting                                                                                                                                                                                                                                                                                               |
| Device Presentation           | Complete product                                                                                                                                                                                                                                                                                                     |
| Contacts Material             | Silver alloy (AgSnO2In2O3)                                                                                                                                                                                                                                                                                           |
| Net Weight                    | 0.058 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-GL                                                                                             |
| Ambient Air Temperature For Storage   | -40...85 °C                                                                                                                  |
| Ambient Air Temperature For Operation | -40...70 °C                                                                                                                  |
| Ip Degree Of Protection               | IP20                                                                                                                         |
| Relative Humidity                     | 10...85 %                                                                                                                    |
| Vibration Resistance                  | 3 gn, amplitude = +/- 1.5 mm (f = 10...150 Hz)in operation<br>5 gn, amplitude = +/- 1.5 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             | 7.96 cm |
| Package 1 Width              | 1.56 cm |
| Package 1 Length             | 7.2 cm  |
| Package 1 Weight             | 59 g    |

|                              |           |
|------------------------------|-----------|
| Unit Type Of Package 2       | BB1       |
| Number Of Units In Package 2 | 30        |
| Package 2 Height             | 17 cm     |
| Package 2 Width              | 17 cm     |
| Package 2 Length             | 27 cm     |
| Package 2 Weight             | 1.89 kg   |
| Unit Type Of Package 3       | S03       |
| Number Of Units In Package 3 | 180       |
| Package 3 Height             | 30 cm     |
| Package 3 Width              | 30 cm     |
| Package 3 Length             | 40 cm     |
| Package 3 Weight             | 11.781 kg |

## Contractual warranty

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

# Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



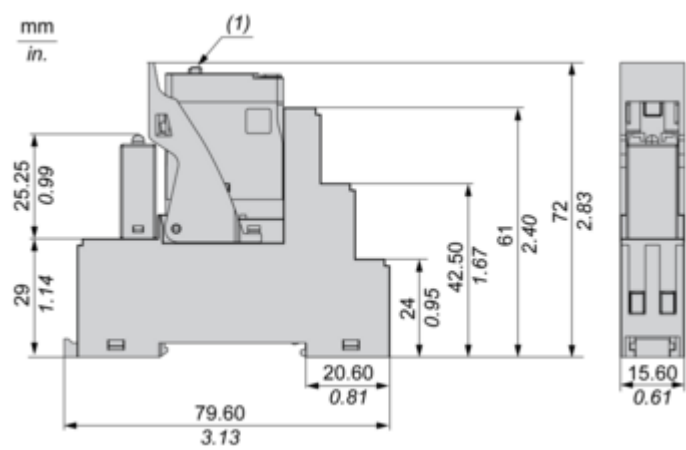
Transparency

## Well-being performance

|                              |                                                                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| ✓ Toxic Heavy Metal Free     |                                                                                                                             |
| ✓ Mercury Free               |                                                                                                                             |
| ✓ Rohs Exemption Information | Yes                                                                                                                         |
| Eu Rohs Directive            | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| China Rohs Regulation        | <a href="#">China RoHS declaration</a>                                                                                      |
| Environmental Disclosure     | <a href="#">Product Environmental Profile</a>                                                                               |
| Weee                         | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile          | No need of specific recycling operations                                                                                    |

Dimensions Drawings

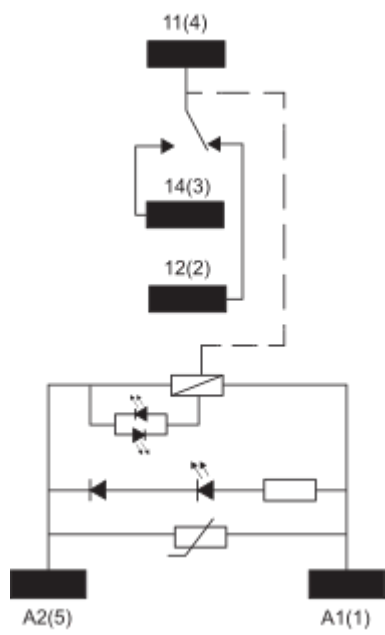
Dimensions



(1) Push button (if any)

Connections and Schema

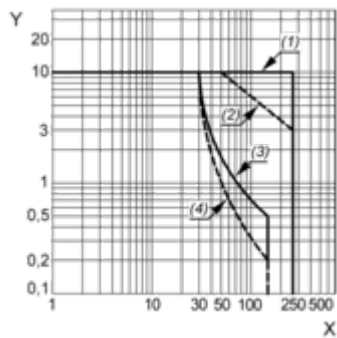
Wiring Diagram



Performance Curves

Performance Curves

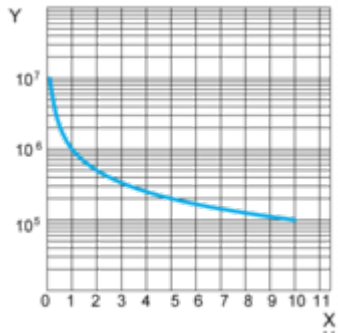
Maximum Switching Capacity



- 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=7ms)

Life Expectancy

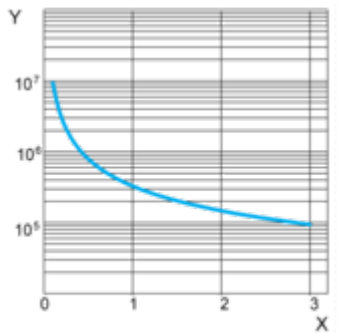
Resistive Load



- 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