

# Product datasheet

Specifications



## interface plug-in relay - HARMONY RXG - 2 C/O standard - 60 V DC - 5 A - with LED

RXG23ND

⚠ 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                | 2 C/O              |
| [Ithe] conventional enclosed thermal current | 5 A at -40...55 °C |
| Local signalling                             | Flag               |

### Complementary

|                                |                                                                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| status LED                     | With                                                                                                                                                     |
| Electrical durability          | 100000 cycles for NO resistive load at 55 °C<br>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<br>300 V conforming to CSA<br>300 V conforming to UL                                                                             |
| Maximum switching voltage      | 250 V AC<br>30 V DC                                                                                                                                      |
| Drop-out voltage threshold     | $\geq 0.1 U_c$ DC                                                                                                                                        |
| [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 UL<br>10 A at 250 V (AC) conforming to IEC |
| Load current                   | 5 A at 250 V AC                                                                                                                                          |
| Minimum switching capacity     | 50 mW at 10 mA, 5 V DC                                                                                                                                   |
| Maximum switching capacity     | 1250 VA                                                                                                                                                  |
| torque value                   | 0.8 N.m                                                                                                                                                  |
| Average resistance             | 6700 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                                                                                                                                          |
| Safety reliability data        | B10d = 100000                                                                                                                                            |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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

|                                        |                                                                                                                                                                              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating rate                         | <= 1800 cycles/hour under load<br><= 18000 cycles/hour no-load                                                                                                               |
| Utilisation coefficient                | 20 %                                                                                                                                                                         |
| Operating time                         | 20 ms                                                                                                                                                                        |
| reset time                             | 20 ms                                                                                                                                                                        |
| Dielectric strength                    | 1000 V AC between contacts with micro disconnection<br>5000 V AC between coil and contact with reinforced insulation<br>3000 V AC between poles with basic 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)                                                                                                                                                   |
| Net weight                             | 0.02 kg                                                                                                                                                                      |

## Environment

|                                       |                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | UL 508<br>CSA C22.2 No 14<br>IEC 61810-1                                                                                       |
| Product certifications                | UL<br>CE<br>EAC<br>CSA<br>DNV                                                                                                  |
| Ambient air temperature for storage   | -40...85 °C                                                                                                                    |
| Ambient air temperature for operation | -40...70 °C                                                                                                                    |
| IP degree of protection               | IP40                                                                                                                           |
| Relative humidity                     | 10...85 %                                                                                                                      |
| Vibration resistance                  | 3 gn, amplitude = +/- 0.75 mm (f = 10...150 Hz)in operation<br>5 gn, amplitude = +/- 0.75 mm (f = 10...150 Hz)not in operation |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |

## 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 >](#)

### Use Better

| Materials and Substances |                           |
|--------------------------|---------------------------|
| EU RoHS Directive        | <a href="#">Compliant</a> |

### Use Longer

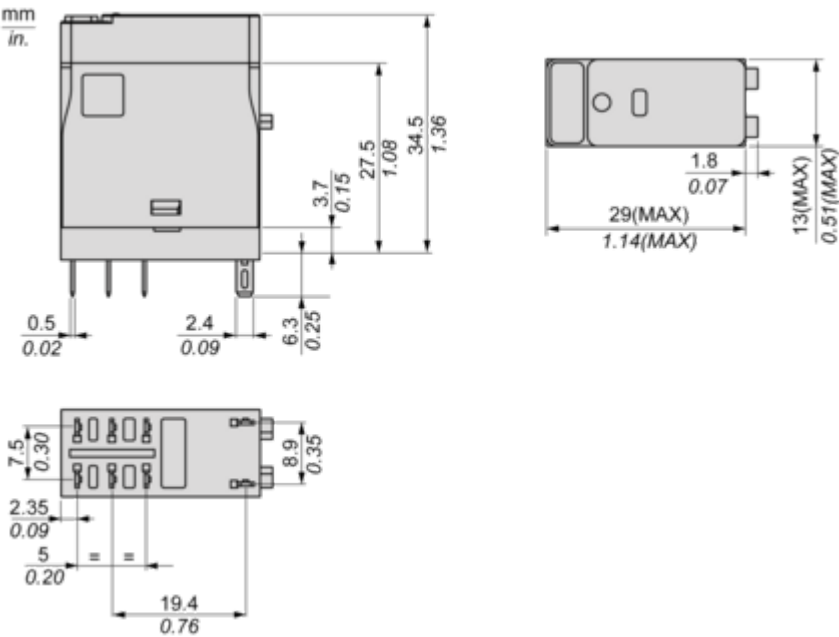
| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

### Use Again

| Repack and remanufacture        |                                          |
|---------------------------------|------------------------------------------|
| End of life manual availability | No need of specific recycling operations |

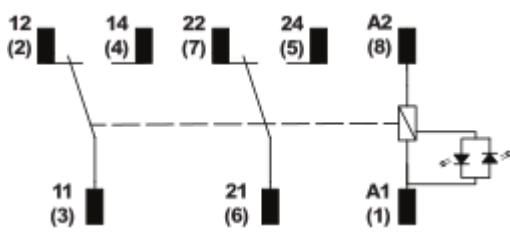
Dimensions Drawings

Dimensions



Connections and Schema

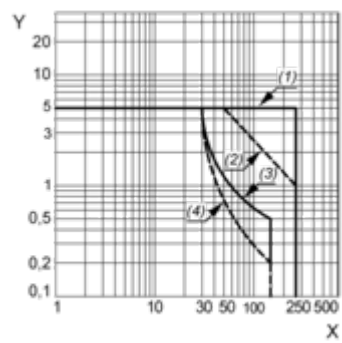
Wiring Diagram



Performance Curves

Performance Curves

Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

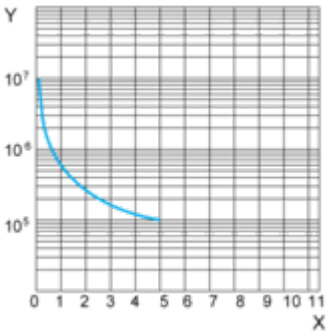
(2) AC Inductive Load  $\cos(\phi)=0.4$

(3) DC Resistive Load

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

Life Expectancy

Resistive Load

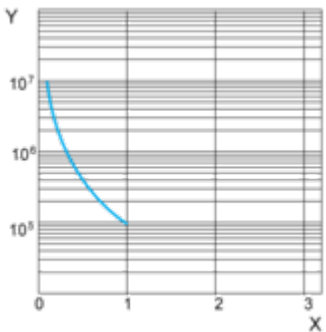


X : Contact Current (A)

Y : Operating Cycle Number

Life Expectancy

Inductive Load



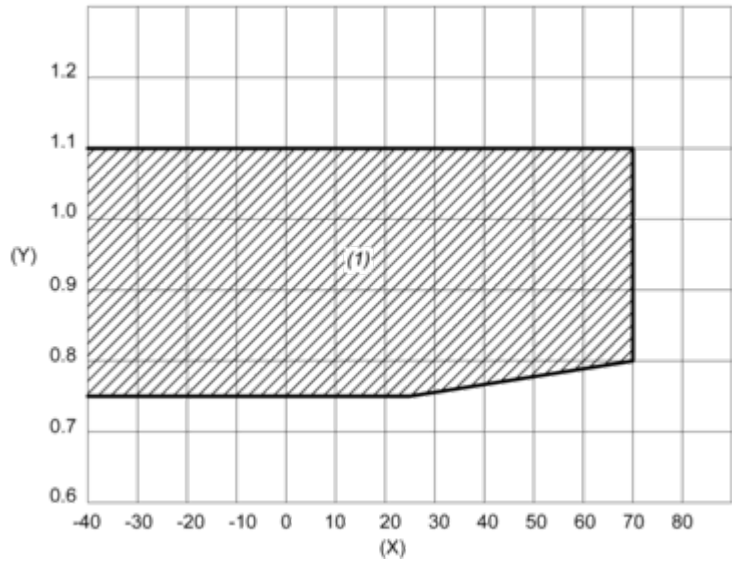
X : Contact Current (A)

Y : Operating Cycle Number

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

Coil Operating Range

DC Coil Operating Range VS Ambient Temperature



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

Technical Illustration

Dimensions

