

# Product datasheet

Specifications



## Interface plug-in relay, 10 A, 1 CO, LED, 24 V DC

RXG13BD

### Main

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

### Complementary

|                                |                                                                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status LED                     | With                                                                                                                                                     |
| [le] 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 for NO resistive load at 55 °C<br>100000 cycles for NC resistive load at 55 °C                                                             |
| Coil resistance                | 1100 Ohm +/- 10 %                                                                                                                                        |
| Shock resistance               | 20 gn in operation<br>100 gn not in operation                                                                                                            |
| Mounting position              | Any position                                                                                                                                             |
| [Uc] control circuit voltage   | 24 V DC                                                                                                                                                  |
| Colour of cover                | Standard                                                                                                                                                 |
| Drop-out voltage threshold     | >= 0.1 Uc DC                                                                                                                                             |
| Load current                   | 10 A at 250 V AC                                                                                                                                         |
| Minimum switching capacity     | 500 mW at 100 mA, 5 V DC                                                                                                                                 |
| Maximum switching capacity     | 2500 VA                                                                                                                                                  |
| Torque value                   | 0.8 N.m                                                                                                                                                  |
| 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 time                | 20 ms                                                                                                                |
| Reset time                    | 20 ms                                                                                                                |
| Overvoltage category          | III                                                                                                                  |
| Maximum switching voltage     | 250 V AC<br>30 V DC                                                                                                  |
| Protection category           | RT I                                                                                                                 |
| Operating rate                | <= 1800 cycles/hour under load<br><= 18000 cycles/hour no-load                                                       |
| Utilisation coefficient       | 20 %                                                                                                                 |
| Pollution degree              | 2                                                                                                                    |
| [Ui] rated insulation voltage | 250 V conforming to IEC<br>300 V conforming to CSA<br>300 V conforming to UL                                         |
| Dielectric strength           | 1000 V AC between contacts with micro disconnection<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                    | 0.02 kg                                                                                                              |

## Environment

|                                       |                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | CSA C22.2 No 14<br>IEC 61810-1<br>UL 508                                                                                       |
| Product certifications                | CSA<br>CE<br>EAC<br>UL<br>DNV-GL                                                                                               |
| 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

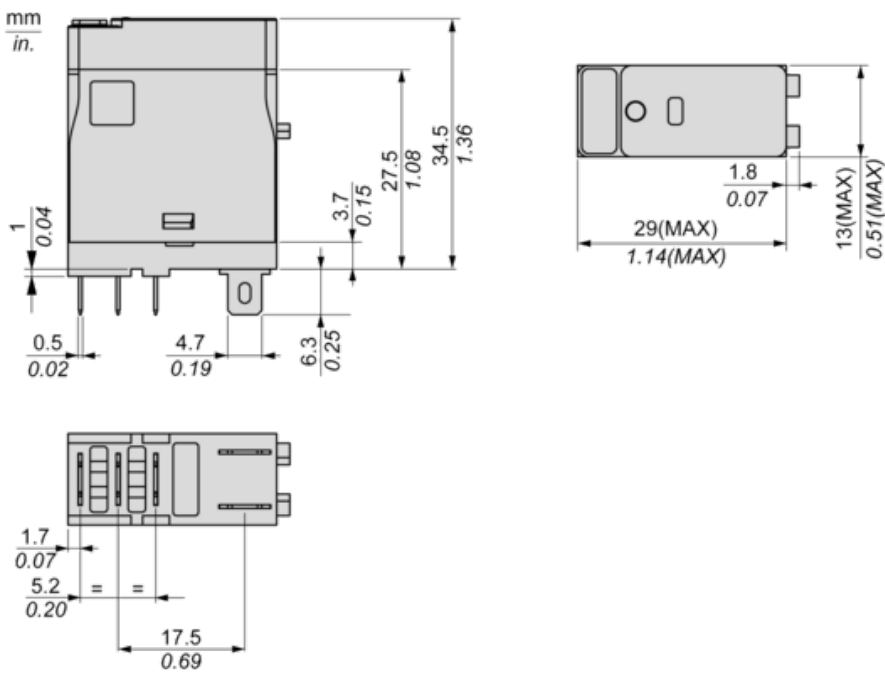
|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 2.89 cm  |
| Package 1 Width              | 1.27 cm  |
| Package 1 Length             | 3.452 cm |
| Package 1 Weight             | 20.74 g  |
| Unit Type of Package 2       | BB1      |
| Number of Units in Package 2 | 10       |
| Package 2 Height             | 3.5 cm   |
| Package 2 Width              | 8.2 cm   |
| Package 2 Length             | 9 cm     |

|                              |         |
|------------------------------|---------|
| Package 2 Weight             | 231 g   |
| Unit Type of Package 3       | S01     |
| Number of Units in Package 3 | 200     |
| Package 3 Height             | 15 cm   |
| Package 3 Width              | 15 cm   |
| Package 3 Length             | 40 cm   |
| Package 3 Weight             | 4.63 kg |

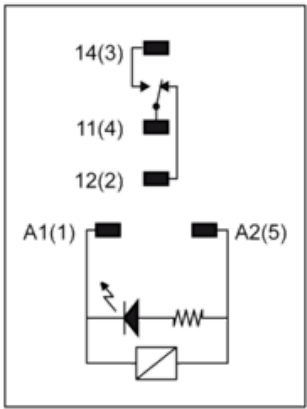
Offer Sustainability

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                             |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                 |
| REACH free of SVHC         | Yes                                                                                               |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes                                                                                               |
| Mercury free               | Yes                                                                                               |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                            |
| RoHS exemption information | <a href="#">Yes</a>                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                     |
| Circularity Profile        | No need of specific recycling operations                                                          |

Dimensions

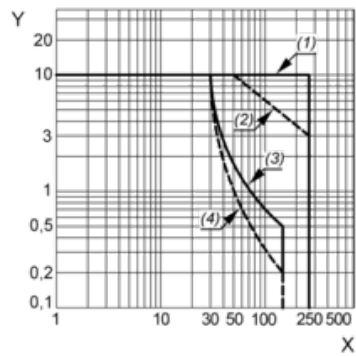


Wiring Diagram



Performance Curves

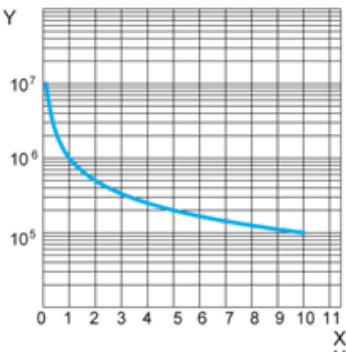
Maximum Switching Capacity



- X : Switching voltage (V)
- Y : Switching current (A)
- (1) AC Resistive Load
- (2) AC Inductive Load cos(φ)=0.4
- (3) DC Resistive Load
- (4) DC Inductive Load (L/R=7ms)

Life Expectancy

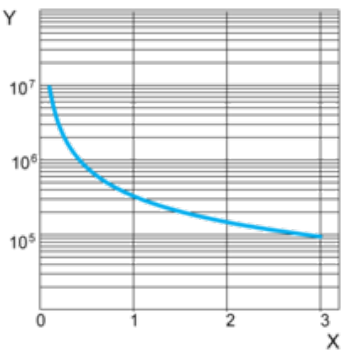
Resistive Load



- X : Contact Current (A)
- Y : Operating Cycle Number

Life Expectancy

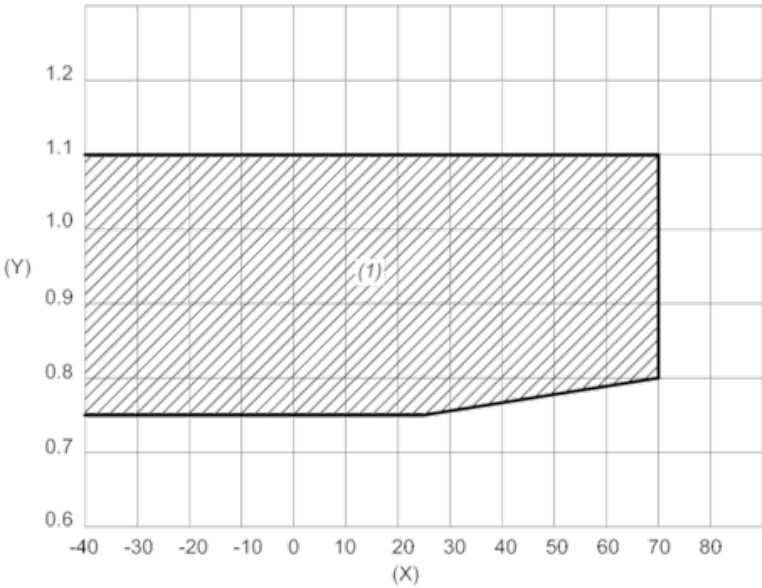
Inductive Load



- 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

DC Coil Operating Range VS Ambient Temperature



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

Recommended replacement(s)