

# Product data sheet

Specifications



interface plug in relay, Harmony Electromechanical Relays, 5A, 2CO, with LED, lockable test button, 24V AC

RXG22B7

**Product availability : Stock - Normally stocked in distribution facility**

## 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 | 2 C/O                            |

## Complementary

|   |   |
|---|---|
| Status LED  | With  |
| Contacts material   | Silver alloy (AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub> )   |
| Maximum contact resistance                                | 100 mOhm  |
| [I <sub>th</sub> e] conventional enclosed thermal current | 5 A -40...131 °F (-40...55 °C)  |
| [I <sub>e</sub> ] rated operational current               | 5 A 30 V DC) UL<br>5 A 30 V DC) IEC<br>5 A 250 V AC) IEC<br>5 A 250 V AC) UL  |
| Maximum switching voltage                                 | 250 V AC<br>30 V DC   |
| Load current  | 5 A 250 V AC  |
| Maximum switching capacity                                | 1250 VA   |
| Minimum switching capacity                                | 50 mW at 10 mA, 5 V DC  |
| Operating rate  | <= 1800 cycles/hour under load<br><= 18000 cycles/hour no-load  |
| Utilisation coefficient                                   | 20 %  |
| Mechanical durability                                     | 10000000 cycles   |
| Electrical durability                                     | 100000 cycles NO resistive at 55 °C<br>100000 cycles NC resistive at 55 °C  |
| [U <sub>i</sub> ] rated insulation voltage                | 250 V IEC<br>300 V CSA<br>300 V UL  |
| [U <sub>imp</sub> ] rated impulse withstand voltage       | 6 kV 1.2/50 μs  |
| 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 |

|                                       |                       |
|---------------------------------------|-----------------------|
| <b>Coil resistance</b>                | 260 Ohm +/- 10 %      |
| <b>Insulation resistance</b>          | 1000 MOhm at 500 V DC |
| <b>Test levels</b>                    | Level A               |
| <b>Mounting position</b>              | Any position          |
| <b>Average consumption in VA</b>      | 0.82 VA 60 Hz         |
| <b>Drop-out voltage threshold</b>     | >= 0.3 Uc AC          |
| <b>Control circuit voltage limits</b> | 0.8...1.1 Uc AC       |
| <b>Coil insulation class</b>          | Class F               |
| <b>Operate time</b>                   | 20 ms                 |
| <b>Release time</b>                   | 20 ms                 |
| <b>[Uc] control circuit voltage</b>   | 24 V AC 50/60 Hz      |
| <b>Safety reliability data</b>        | B10d = 100000         |
| <b>Colour of cover</b>                | Standard              |
| <b>Control type</b>                   | Lockable test button  |
| <b>Local signalling</b>               | Flag                  |
| <b>Torque Value</b>                   | 7.08 lbf.in (0.8 N.m) |
| <b>Net Weight</b>                     | 0.04 lb(US) (0.02 kg) |
| <b>Device presentation</b>            | Complete product      |

## Environment

|  |  |
|--|--|
| <b>Vibration resistance</b>                  | 3 gn +/- 0.75 mm 10...150 Hz)in operation<br>5 gn +/- 0.75 mm 10...150 Hz)not in operation |
| <b>IP Degree of Protection</b>               | IP40   |
| <b>Shock resistance</b>                      | 20 gn in operation<br>100 gn not in operation  |
| <b>Protection category</b>                   | RT I   |
| <b>Standards</b>                             | UL 508<br>IEC 61810-1<br>CSA C22.2 No 14   |
| <b>Product Certifications</b>                | UL<br>EAC<br>CSA<br>CE<br>DNV-GL   |
| <b>Pollution degree</b>                      | 2  |
| <b>Overvoltage category</b>                  | III  |
| <b>Ambient Air Temperature for Storage</b>   | -40...185 °F (-40...85 °C)   |
| <b>Ambient air temperature for operation</b> | -40...158 °F (-40...70 °C)   |
| <b>Relative humidity</b>                     | 10...85 %  |

## Ordering and shipping details

|                          |                             |
|--------------------------|-----------------------------|
| <b>Category</b>          | 21127-ZELIO ICE CUBE RELAYS |
| <b>Discount Schedule</b> | CP2                         |
| <b>GTIN</b>              | 3606480689109               |
| <b>Returnability</b>     | Yes                         |
| <b>Country of origin</b> | CN                          |

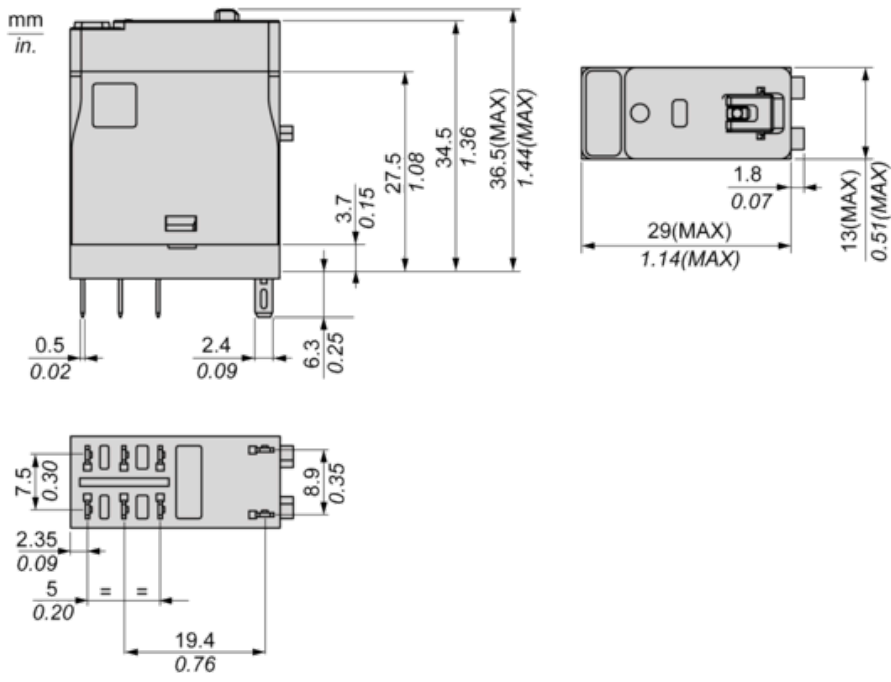
## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 1.36 in (3.45 cm)      |
| Package 1 Width              | 3.64 in (9.25 cm)      |
| Package 1 Length             | 3.39 in (8.6 cm)       |
| Package 1 Weight             | 0.77 oz (21.9 g)       |
| Unit Type of Package 2       | BB1                    |
| Number of Units in Package 2 | 10                     |
| Package 2 Height             | 1.38 in (3.5 cm)       |
| Package 2 Width              | 3.23 in (8.2 cm)       |
| Package 2 Length             | 3.58 in (9.1 cm)       |
| Package 2 Weight             | 8.01 oz (227 g)        |
| Unit Type of Package 3       | S01                    |
| Number of Units in Package 3 | 200                    |
| Package 3 Height             | 5.91 in (15 cm)        |
| Package 3 Width              | 5.91 in (15 cm)        |
| Package 3 Length             | 15.75 in (40 cm)       |
| Package 3 Weight             | 10.52 lb(US) (4.77 kg) |

## Offer Sustainability

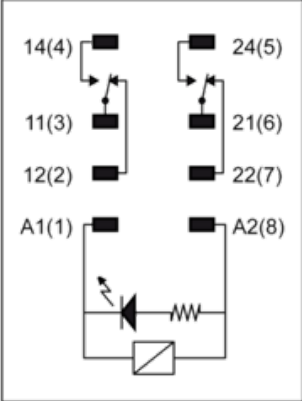
|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| 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 | Yes  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>  |

**Dimensions**



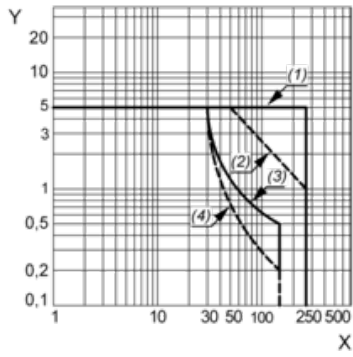
**Wiring Diagram**

---



**Performance Curves**

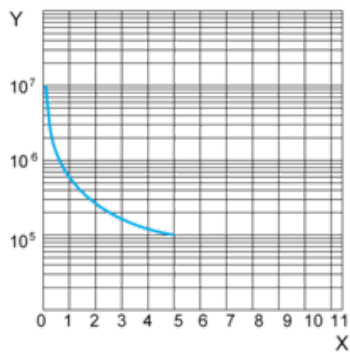
**Maximum Switching Capacity**



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

**Life Expectancy**

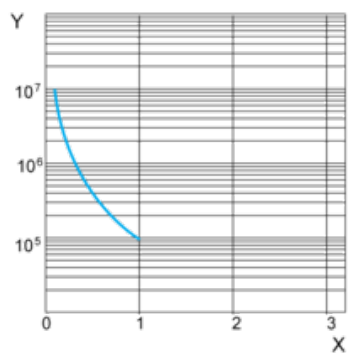
Resistive Load



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

**Life Expectancy**

Inductive Load



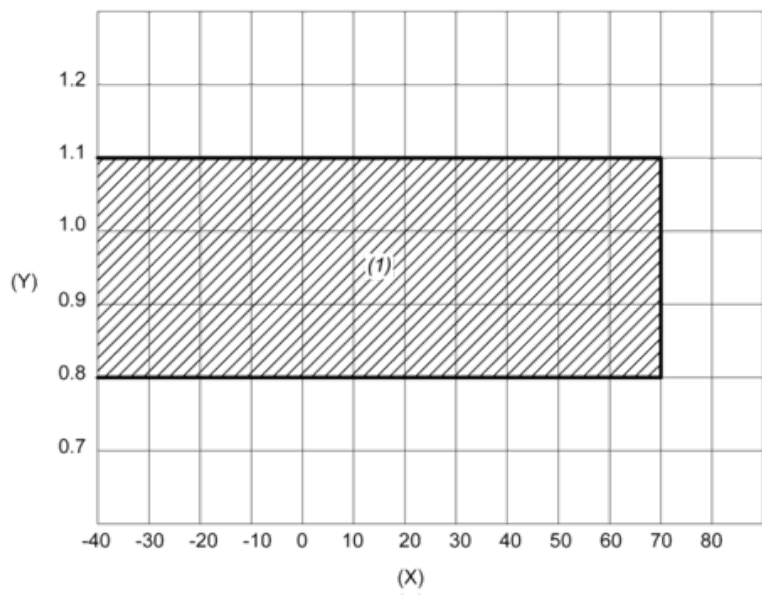
- X : Contact Current (A)
- Y : Operating Cycle Number

**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

**Recommended replacement(s)**