



## 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                            |

## Complementary

|                                                           |                                                                                                                      |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 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 | 10 A -40...131 °F (-40...55 °C)                                                                                      |
| [I <sub>e</sub> ] rated operational current               | 10 A 30 V DC) UL<br>10 A 30 V DC) IEC<br>10 A 250 V AC) IEC<br>10 A 250 V AC) UL                                     |
| Maximum switching voltage                                 | 250 V AC<br>30 V DC                                                                                                  |
| Load current                                              | 10 A 250 V AC                                                                                                        |
| Maximum switching capacity                                | 2500 VA                                                                                                              |
| Minimum switching capacity                                | 500 mW at 100 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 |
| Coil resistance                                           | 23500 Ohm +/- 15 %                                                                                                   |
| Insulation resistance                                     | 1000 MOhm at 500 V DC                                                                                                |
| Test levels                                               | Level A                                                                                                              |
| Mounting position                                         | Any position                                                                                                         |
| Average consumption in VA                                 | 0.82 VA 60 Hz                                                                                                        |
| Drop-out voltage threshold                                | >= 0.3 U <sub>c</sub> AC                                                                                             |
| Control circuit voltage limits                            | 0.8...1.1 U <sub>c</sub> AC                                                                                          |
| Coil insulation class                                     | Class F                                                                                                              |
| Operate time                                              | 20 ms                                                                                                                |
| Release time                                              | 20 ms                                                                                                                |
| [U <sub>c</sub> ] control circuit voltage                 | 230 V AC 50/60 Hz                                                                                                    |
| Safety reliability data                                   | B10d = 100000                                                                                                        |

|                     |                        |
|---------------------|------------------------|
| Colour of cover     | Transparent            |
| Torque Value        | 7.08 lbf.in (0.8 N.m)  |
| Product Weight      | 0.04 lb(US) (0.019 kg) |
| Device presentation | Complete product       |

## Environment

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

## Ordering and shipping details

|                       |                               |
|-----------------------|-------------------------------|
| Category              | 21127 - ZELIO ICE CUBE RELAYS |
| Discount Schedule     | CP2                           |
| GTIN                  | 3606480688928                 |
| Nbr. of units in pkg. | 10                            |
| Package weight(Lbs)   | 0.51 lb(US) (0.23 kg)         |
| Returnability         | No                            |
| Country of origin     | CN                            |

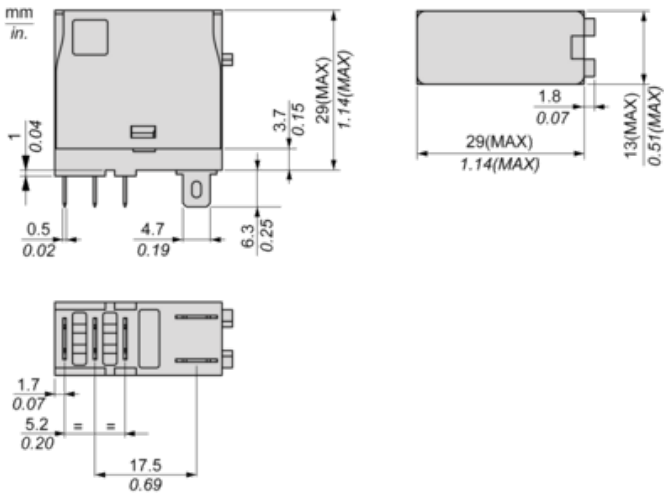
## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 1.40 in (3.55 cm)       |
| Package 1 width              | 0.51 in (1.3 cm)        |
| Package 1 Length             | 1.14 in (2.9 cm)        |
| Unit Type of Package 2       | BB1                     |
| Number of Units in Package 2 | 10                      |
| Package 2 Weight             | 7.27 oz (206 g)         |
| Package 2 Height             | 1.38 in (3.5 cm)        |
| Package 2 width              | 2.95 in (7.5 cm)        |
| Package 2 Length             | 3.23 in (8.2 cm)        |
| Unit Type of Package 3       | S01                     |
| Number of Units in Package 3 | 240                     |
| Package 3 Weight             | 11.40 lb(US) (5.169 kg) |
| Package 3 Height             | 5.91 in (15 cm)         |
| Package 3 width              | 5.91 in (15 cm)         |
| Package 3 Length             | 15.75 in (40 cm)        |

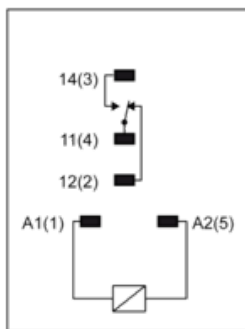
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                                         |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                                                                                                                                    |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                    |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                                    |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                                                                                                 |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                          |

Dimensions

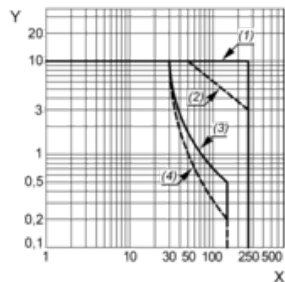


## Wiring Diagram



## Performance Curves

### Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

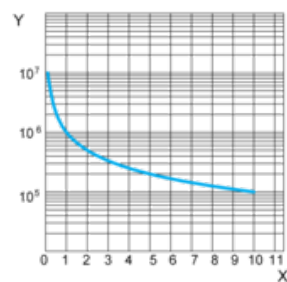
(2) AC Inductive Load  $\cos(\phi)=0.4$

(3) DC Resistive Load

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

### Life Expectancy

Resistive Load

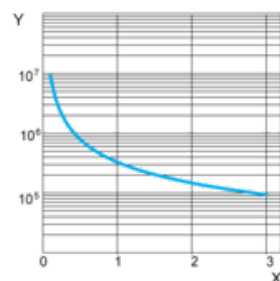


X : Contact Current (A)

Y : Operating Cycle Number

### Life Expectancy

Inductive Load



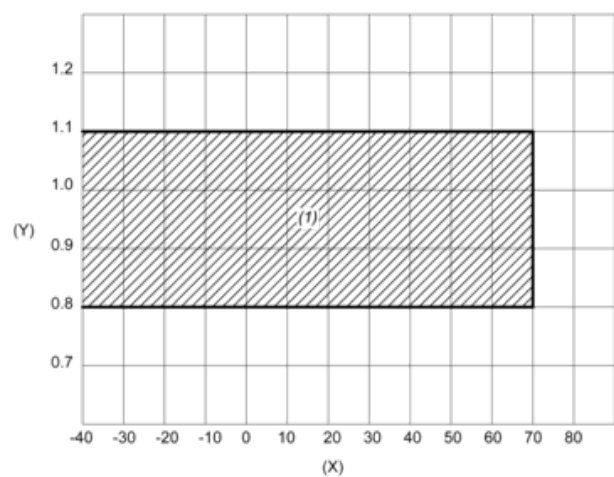
X : Contact Current (A)

Y : Operating Cycle Number

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

### Coil Operating Range

## AC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area

# Mouser Electronics

Authorized Distributor

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[RXG15P7](#)