

# RXG23E7

interface plug in relay, Harmony  
Electromechanical Relays, 5A, 2CO, with LED,  
48V AC



## 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                            |
| [lthe] conventional enclosed thermal current | 5 A -40...131 °F (-40...55 °C)   |
| Local signalling                             | Flag                             |

## Complementary

|                                |  |
|--------------------------------|--|
| Status LED                     | With   |
| [le] 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 |
| Electrical durability          | 100000 Cycles NO resistive at 55 °C<br>100000 cycles NC resistive at 55 °C   |
| Coil resistance                | 1100 Ohm +/- 10 %  |
| Shock resistance               | 20 gn in operation<br>100 gn not in operation                                |
| Mounting position              | Any position   |
| Average consumption in VA      | 0.82 VA 60 Hz  |
| Control circuit voltage limits | 0.8...1.1 Uc AC  |
| [Uc] control circuit voltage   | 48 V AC 50/60 Hz   |
| Colour of cover                | Standard   |
| Drop-out voltage threshold     | >= 0.3 Uc AC   |
| Load current                   | 5 A 250 V AC   |
| Minimum switching capacity     | 50 mW at 10 mA, 5 V DC   |
| Maximum switching capacity     | 1250 VA  |
| Torque Value                   | 7.08 lbf.in (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  |

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|                               |   |
|-------------------------------|---|
| [Ui] rated insulation voltage | 250 V IEC<br>300 V CSA<br>300 V UL  |
| 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 |
| Test levels                   | Level A group mounting  |
| Device presentation           | Complete product  |
| Contacts material             | Silver alloy (AgSnO2In2O3)  |
| Net Weight                    | 0.04 lb(US) (0.02 kg)   |

## Environment

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

## Ordering and shipping details

|                   |                             |
|-------------------|-----------------------------|
| Category          | 21127-ZELIO ICE CUBE RELAYS |
| Discount Schedule | CP2                         |
| GTIN              | 3606480689222               |
| Returnability     | No                          |
| Country of origin | CN                          |

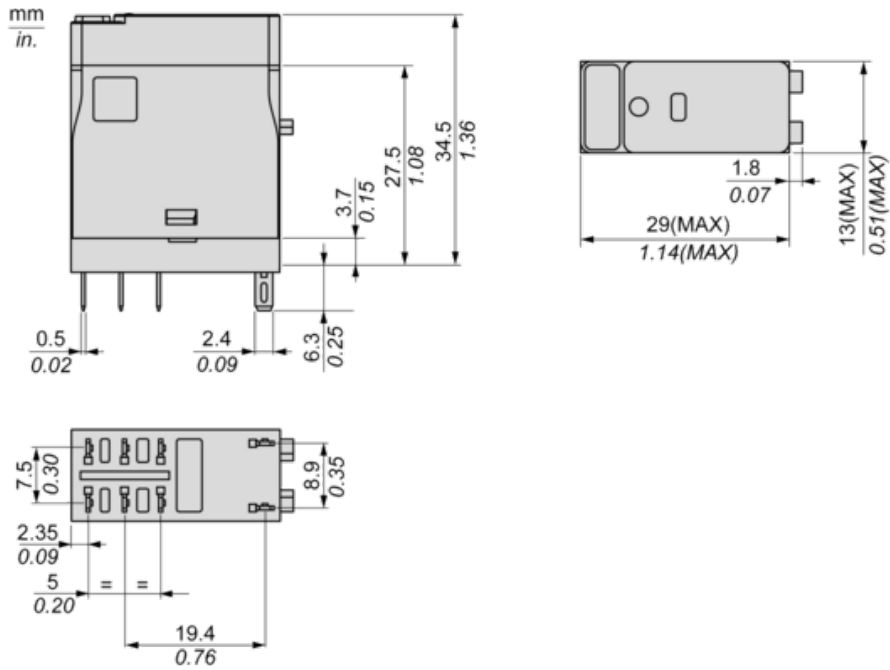
## Packing Units

|                              |                        |
|------------------------------|------------------------|
| 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             | 0.81 oz (22.9 g)       |
| Unit Type of Package 2       | BB1                    |
| Number of Units in Package 2 | 10                     |
| Package 2 Height             | 1.34 in (3.4 cm)       |
| Package 2 Width              | 3.23 in (8.2 cm)       |
| Package 2 Length             | 3.54 in (9 cm)         |
| Package 2 Weight             | 7.80 oz (221 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             | 10.21 lb(US) (4.63 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) <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   |

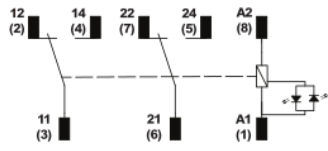
Dimensions



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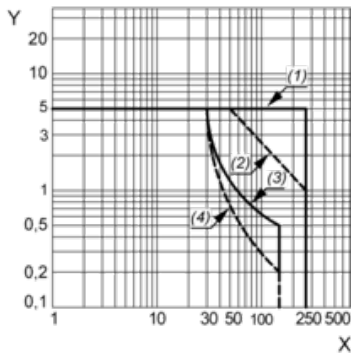
Wiring Diagram

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Performance Curves

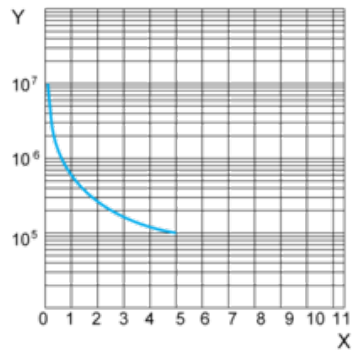
Maximum Switching Capacity



- 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

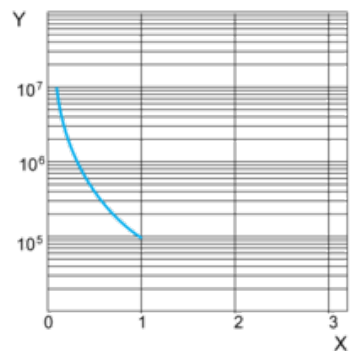
Resistive Load



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

Life Expectancy

Inductive Load



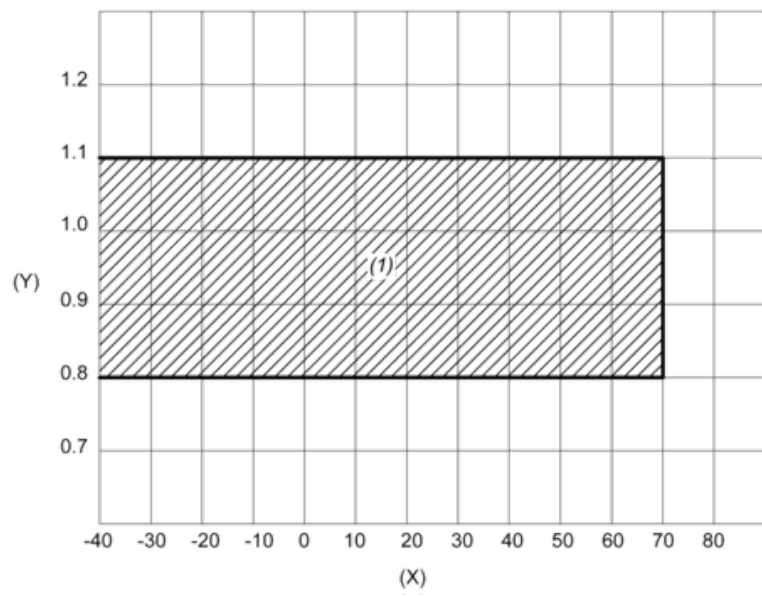
- X : Contact Current (A)
- Y : Operating Cycle Number

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

## Coil Operating Range

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### AC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area