



## 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

|                                                          |                                                                                                                                                          |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> ] conventional enclosed thermal current | 10 A at -40...55 °C                                                                                                                                      |
| [I <sub>e</sub> ] 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 |
| Maximum switching voltage                                | 250 V AC<br>30 V DC                                                                                                                                      |
| Load current                                             | 10 A at 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 for NO resistive load at 55 °C<br>100000 cycles for NC resistive load at 55 °C                                                             |
| [U <sub>i</sub> ] rated insulation voltage               | 250 V conforming to IEC<br>300 V conforming to CSA<br>300 V conforming to 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                                          | 1100 Ohm +/- 10 %                                                                                                                                        |
| Insulation resistance                                    | 1000 MOhm at 500 V DC                                                                                                                                    |
| Test levels                                              | Level A group mounting                                                                                                                                   |
| Mounting position                                        | Any position                                                                                                                                             |
| Drop-out voltage threshold                               | >= 0.1 U <sub>c</sub> DC                                                                                                                                 |
| Coil insulation class                                    | Class F                                                                                                                                                  |
| Operate time                                             | 20 ms                                                                                                                                                    |
| Release time                                             | 20 ms                                                                                                                                                    |
| [U <sub>c</sub> ] control circuit voltage                | 24 V DC                                                                                                                                                  |
| Safety reliability data                                  | B10d = 100000                                                                                                                                            |
| Colour of cover                                          | Standard                                                                                                                                                 |

|                     |                  |
|---------------------|------------------|
| Local signalling    | Flag             |
| Torque value        | 0.8 N.m          |
| Net weight          | 0.02 kg          |
| Device presentation | Complete product |

## Environment

|                                       |                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| IP degree of protection               | IP40                                                                                                                           |
| Shock resistance                      | 20 gn in operation<br>100 gn not in operation                                                                                  |
| Protection category                   | RT I                                                                                                                           |
| Standards                             | CSA C22.2 No 14<br>IEC 61810-1<br>UL 508                                                                                       |
| Product certifications                | CE<br>UL<br>CSA<br>EAC                                                                                                         |
| Pollution degree                      | 2                                                                                                                              |
| Overvoltage category                  | III                                                                                                                            |
| Ambient air temperature for storage   | -40...85 °C                                                                                                                    |
| Ambient air temperature for operation | -40...70 °C                                                                                                                    |
| Relative humidity                     | 10...85 %                                                                                                                      |

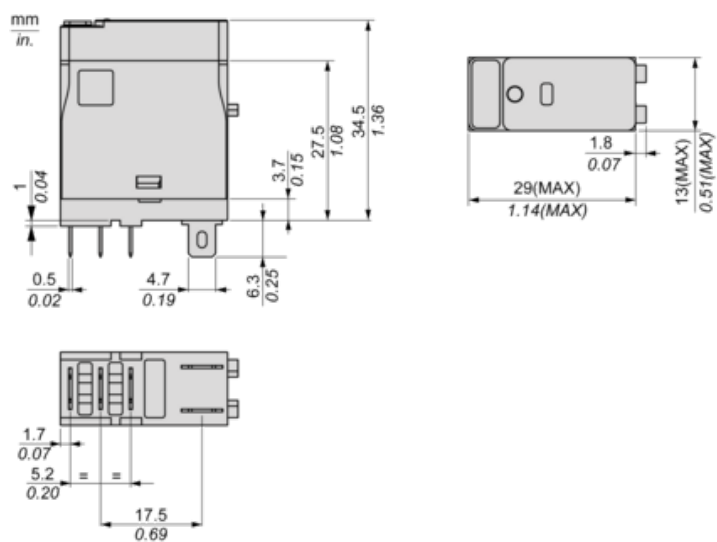
## Packing Units

|                  |           |
|------------------|-----------|
| Package 1 Weight | 20.200 g  |
| Package 1 Height | 35.500 mm |
| Package 1 width  | 13.000 mm |
| Package 1 Length | 29.000 mm |

## 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)  <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>                                                    |

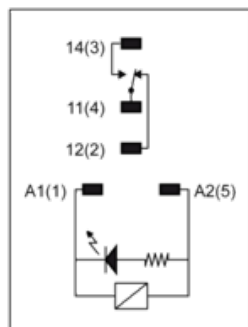
## Dimensions



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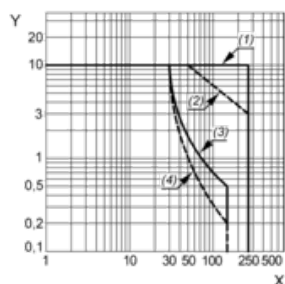
Wiring Diagram

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## Performance Curves

### Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

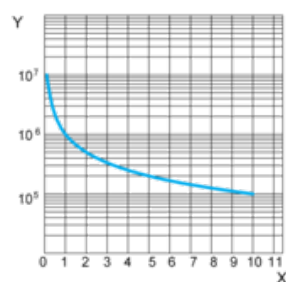
(2) AC Inductive Load  $\cos(\phi)=0.4$

(3) DC Resistive Load

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

### Life Expectancy

Resistive Load

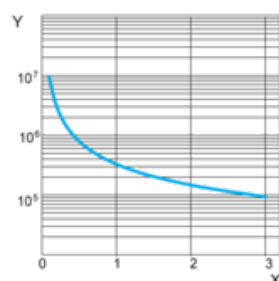


X : Contact Current (A)

Y : Operating Cycle Number

### Life Expectancy

Inductive Load



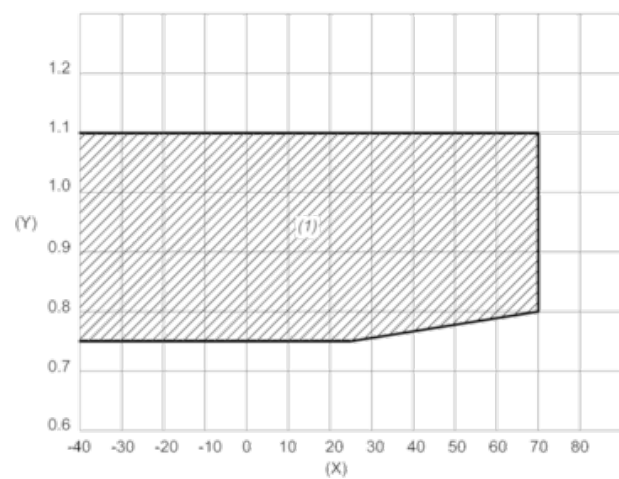
X : Contact Current (A)

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 ( $U/U_c$ )

(1) Permitted operating range area