

# RXG25BD

interface plug in relay, Harmony  
Electromechanical Relays, 5A, 2CO, clear  
cover, 24V DC



## 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
[Ithe] conventional enclosed thermal current	5 A -40...131 °F (-40...55 °C)

## Complementary

[Ie] rated operational current	5 A 30 V DC) UL 5 A 30 V DC) IEC 5 A 250 V AC) IEC 5 A 250 V AC) UL
Electrical durability	100000 Cycles NO resistive at 55 °C 100000 cycles NC resistive at 55 °C
Coil resistance	1100 Ohm +/- 10 %
Shock resistance	20 gn in operation 100 gn not in operation
Mounting position	Any position
[Uc] control circuit voltage	24 V DC
Colour of cover	Transparent
Drop-out voltage threshold	>= 0.1 Uc DC
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 30 V DC
Protection category	RT I
Operating rate	<= 1800 cycles/hour under load <= 18000 cycles/hour no-load
Pollution degree	2
Utilisation coefficient	20 %
[Ui] rated insulation voltage	250 V IEC 300 V CSA 300 V UL

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Dielectric strength	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced insulation 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	0.040 lb(US) (0.018 kg)

## Environment

Standards	CSA C22.2 No 14 IEC 61810-1 UL 508
Product Certifications	CSA[RETURN]CE[RETURN]EAC[RETURN]UL[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 5 gn +/- 0.75 mm 10...150 Hz)not in operation

## Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3606480689390
Returnability	Yes
Country of origin	US

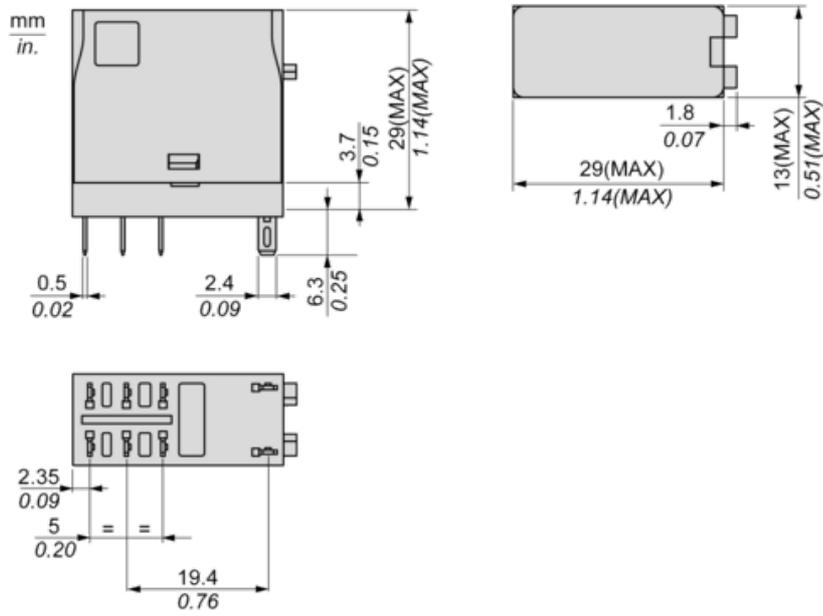
## Packing Units

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	3.4 in (8.6 cm)
Package 1 Weight	7.9 oz (224 g)

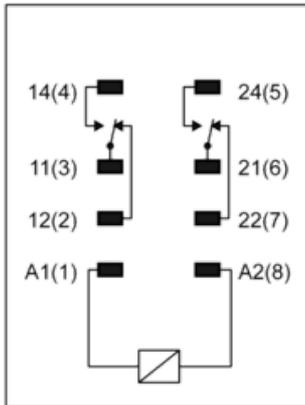
## Offer Sustainability

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

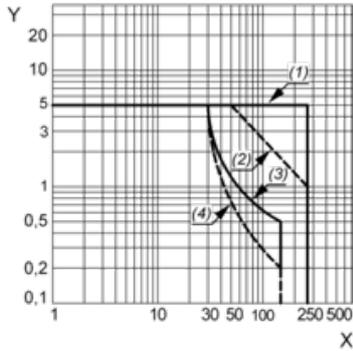


## Wiring Diagram



Performance Curves

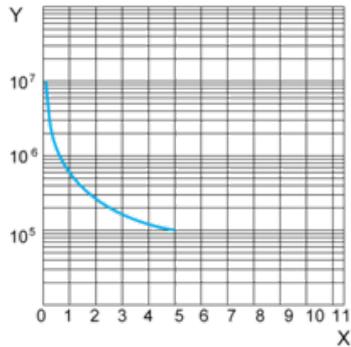
Maximum Switching Capacity



- 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

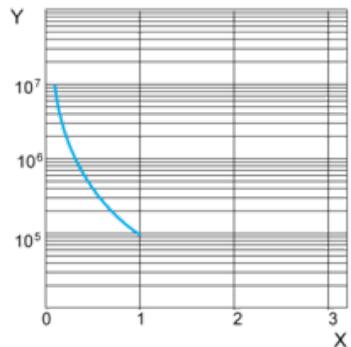
Resistive Load



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

Life Expectancy

Inductive Load

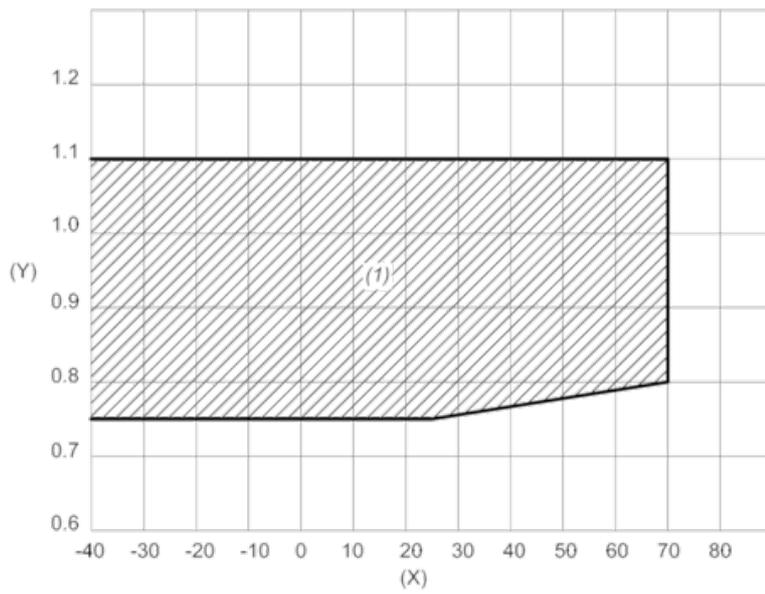


- X : Contact Current (A)
- Y : Operating Cycle Number

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

## Coil Operating Range

### DC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area