

# RXG21BDPV

interface plug in relay, Harmony  
Electromechanical Relays, 5A, 2CO, with LED,  
pre assembled, lockable test but to n, 24V DC



## Main

Range of Product	Harmony Electromechanical Relays
Series name	Interface relay
Product or Component Type	Pre-assembled plug-in relay with socket
Device short name	RXG
Contacts type and composition	2 C/O
[Ithe] conventional enclosed thermal current	5 A

## Complementary

Status LED	Without
[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 resistive
Coil resistance	1100 Ohm +/- 10 %
Shock resistance	20 gn in operation 100 gn not in operation
Mounting position	Any position
Average coil consumption	0.53 W DC
[Uc] control circuit voltage	24 V DC
Colour of cover	Transparent
Drop-out voltage threshold	$\geq 0.1 U_c$ DC
Load current	5 A
Minimum switching capacity	50 mW at 10 mA, 5 V DC
Maximum switching capacity	1250 VA AC 150 W DC
Control type	Lockable test button
Torque Value	7.08 Lbf.in (0.8 N.m) 7.0 lbf.in (0.79 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
Connections - terminals	Connector, 1 x 0.25...1 x 2.5 mm <sup>2</sup> AWG 22...AWG 14) flexible with cable end Connector, 2 x 0.25...2 x 1 mm <sup>2</sup> AWG 22...AWG 17) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm <sup>2</sup> AWG 20...AWG 14) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm <sup>2</sup> AWG 20...AWG 16) solid without cable end
Overvoltage category	III
Maximum switching voltage	250 V
Protection category	RT I

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Operating rate	<= 1800 cycles/hour under load <= 18000 cycles/hour no-load
Utilisation coefficient	20 %
Pollution degree	2
[Ui] rated insulation voltage	250 V IEC
Dielectric strength	1000 V AC between contacts with micro disconnection 1300 V between terminals and base with basic insulation 3000 V between terminals and LTB area with basic insulation 3000 V AC between poles with basic insulation 5000 V AC between coil and contact with reinforced insulation
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	Silver alloy (AgSnO2In2O3)
Net Weight	0.14 lb(US) (0.065 kg)

## Environment

Standards	IEC 61810-1 CSA C22.2 No 14 UL 508 IEC 61984
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	IP20
Relative humidity	10...85 %
Vibration resistance	3 gn +/- 1.5 mm 10...150 Hz)in operation 5 gn +/- 1.5 mm 10...150 Hz)not in operation

## Ordering and shipping details

Category	21127-ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	3606489562854
Returnability	No

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.13 in (7.96 cm)
Package 1 Width	0.61 in (1.56 cm)
Package 1 Length	2.83 in (7.2 cm)
Package 1 Weight	2.33 oz (66 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Height	6.69 in (17 cm)
Package 2 Width	3.54 in (9 cm)
Package 2 Length	10.63 in (27 cm)
Package 2 Weight	4.68 lb(US) (2.124 kg)
Unit Type of Package 3	S03
Number of Units in Package 3	180
Package 3 Height	11.81 in (30 cm)
Package 3 Width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)
Package 3 Weight	29.34 lb(US) (13.309 kg)

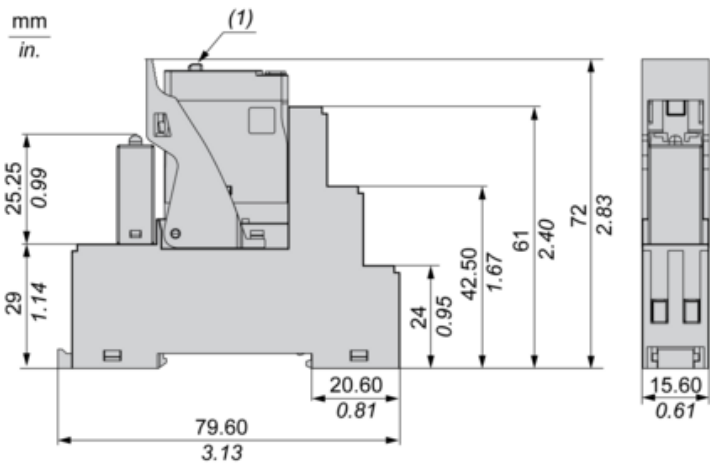
## Offer Sustainability

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>
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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

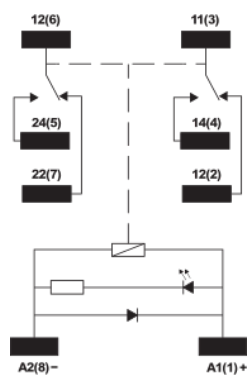
Contractual warranty	
Warranty	18 months

Dimensions



(1) Push button (if any)

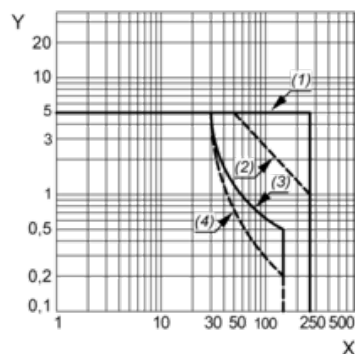
## Wiring Diagram



NOTE: For DC input , A1 have to be + , otherwise it would short circuit from protection module

## Performance Curves

### Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

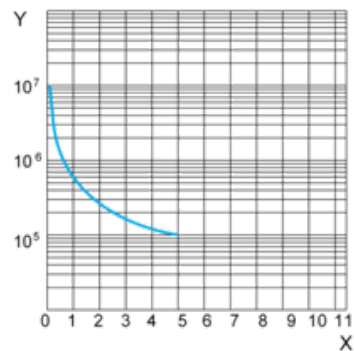
(2) AC Inductive Load  $\cos(\phi)=0.4$

(3) DC Resistive Load

(4) DC Inductive Load (L/R=7ms)

### Life Expectancy

Resistive Load

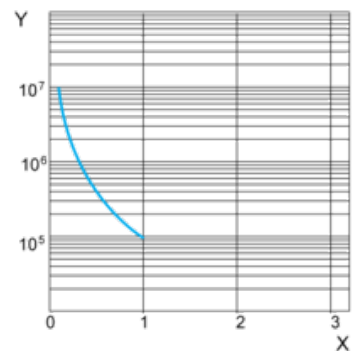


X : Contact Current (A)

Y : Operating Cycle Number

### Life Expectancy

Inductive Load



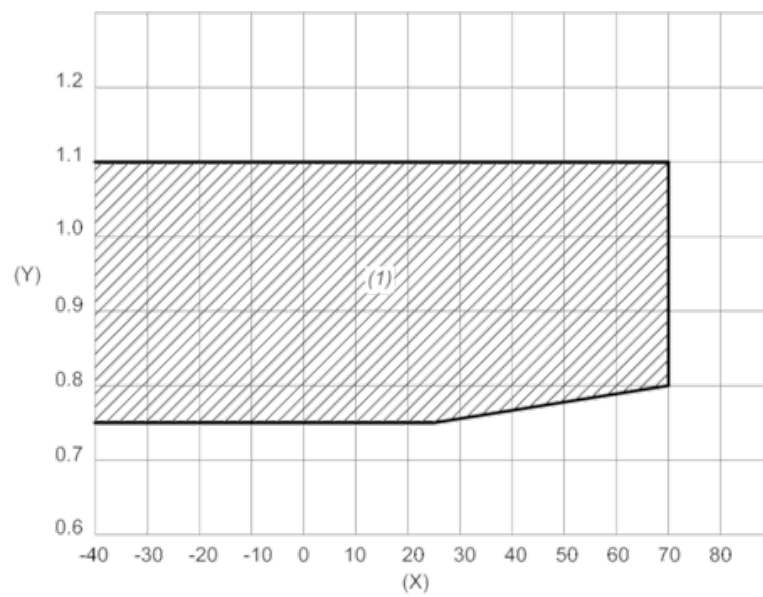
X : Contact Current (A)

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