

# Product data sheet

## Characteristics

# RXG12B7PV

Harmony, Interface plug-in relay pre-assembled, 10 A, 1 CO, with LED, with lockable test button, with protection circuit, 24 V AC

Product availability : Non-Stock - Not normally stocked in distribution facility

Price\* : 24.09 USD



### 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	1 C/O

### Complementary

Status LED	With
Contacts material	Silver alloy (AgSnO2In2O3)
Maximum contact resistance	100 mOhm
[I <sub>th</sub> ] conventional enclosed thermal current	10 A
[I <sub>e</sub> ] rated operational current	10 A 30 V DC) UL 10 A 30 V DC) IEC 10 A 250 V AC) IEC 10 A 250 V AC) UL
Maximum switching voltage	250 V
Load current	10 A
Maximum switching capacity	2500 VA AC 300 W DC
Minimum switching capacity	500 mW at 100 mA, 5 V DC
Operating rate	<= 1800 cycles/hour under load <= 18000 cycles/hour no-load
Utilisation coefficient	20 %
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles resistive
[U <sub>i</sub> ] rated insulation voltage	250 V IEC
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV 1.2/50 µs between coil and contact 1.2 kV 1.2/50 µs between contacts 2.5 kV 1.2/50 µs between terminals and LTB area

\* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

1.5 kV 1.2/50 µs between terminals and base

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 5000 V AC between coil and contact with reinforced insulation
Coil resistance	260 Ohm +/- 10 %
Insulation resistance	1000 MOhm at 500 V DC
Test levels	Level A
Mounting position	Any position
Average coil consumption	0.70 VA AC 50-60 Hz
Drop-out voltage threshold	>= 0.3 Uc AC
Coil insulation class	Class F
Operate time	20 ms
Release time	20 ms
[Uc] control circuit voltage	24 V AC 50/60 Hz
Safety reliability data	B10d = 100000
Colour of cover	Transparent
Control type	Lockable test button
Torque value	7.08 lbf.in (0.8 N.m) 7.0 lbf.in (0.79 N.m)
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
Net weight	0.13 lb(US) (0.058 kg)
Device presentation	Complete product

## Environment

Vibration resistance	3 gn +/- 1.5 mm 10...150 Hz)in operation 5 gn +/- 1.5 mm 10...150 Hz)not in operation
IP degree of protection	IP20
Shock resistance	20 gn in operation 100 gn not in operation
Protection category	RT I
Standards	IEC 61810-1 CSA C22.2 No 14 UL 508 IEC 61984
Product certifications	EAC CSA UL CE 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	03606489562816
Nbr. of units in pkg.	1
Package weight(Lbs)	2.08 oz (59 g)
Returnability	No

## Packing Units

Unit Type of Package 1	PCE
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)

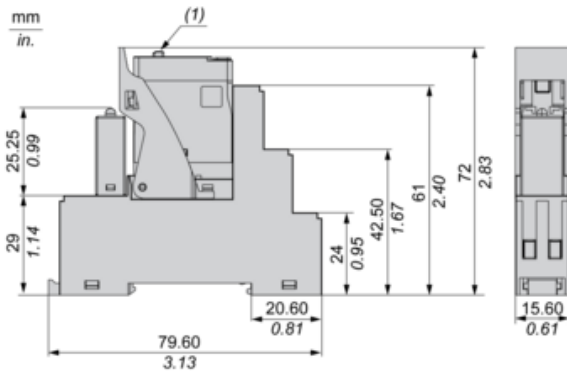
## Offer Sustainability

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
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## Contractual warranty

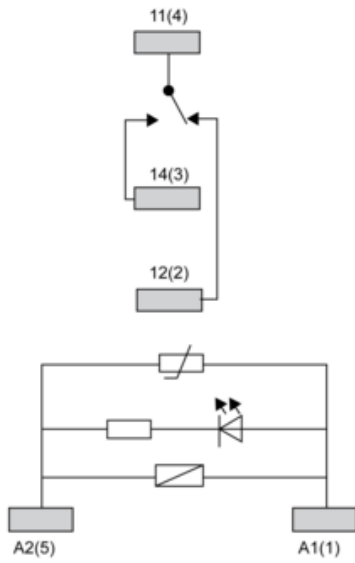
Warranty	18 months
----------	-----------

Dimensions



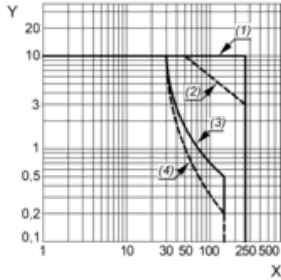
(1) Push button (if any)

Wiring Diagram



Performance Curves

Maximum Switching Capacity



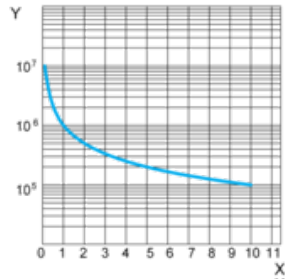
X : Switching voltage (V)

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

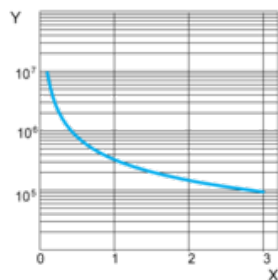


X : Contact Current (A)

Y : Operating Cycle Number

Life Expectancy

Inductive Load



X : Contact Current (A)

Y : Operating Cycle Number

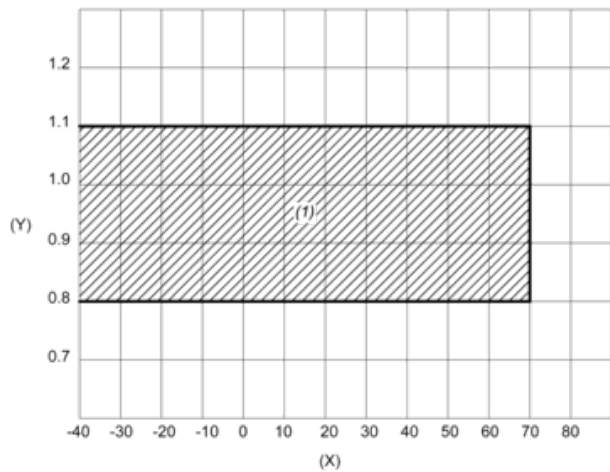
NOTE: These are typical curves, actual durability depends on load, environment, duty cycle, etc.

---

Coil Operating Range

---

AC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area