

## Product data sheet

### Characteristics

# RXG13B7

Harmony Electromechanical Relays, Interface plug in relay, 10A, 1CO, with LED, 24V 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	1 C/O
[Ithe] conventional enclosed thermal current	10 A at -40...55 °C
Local signalling	Flag

### Complementary

Status LED	With
[Ie] rated operational current	10 A at 30 V (DC) conforming to UL 10 A at 30 V (DC) conforming to IEC 10 A at 250 V (AC) conforming to IEC 10 A at 250 V (AC) conforming to UL
Electrical durability	100000 Cycles for NO resistive load at 55 °C 100000 cycles for NC resistive load at 55 °C
Coil resistance	260 Ohm +/- 10 %
Shock resistance	20 gn in operation 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	24 V AC 50/60 Hz
Colour of cover	Standard
Drop-out voltage threshold	>= 0.3 Uc AC
Load current	10 A at 250 V AC
Minimum switching capacity	500 mW at 100 mA, 5 V DC
Maximum switching capacity	2500 VA
Torque value	0.8 N.m
Insulation resistance	1000 MOhm at 500 V DC
Mechanical durability	10000000 cycles
Safety reliability data	B10d = 100000
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
Utilisation coefficient	20 %
Pollution degree	2

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[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
Dielectric strength	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced insulation
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	Silver alloy (AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub> )
Net weight	0.02 kg

## Environment

Standards	CSA C22.2 No 14 UL 508 IEC 61810-1
Product certifications	EAC[RETURN]CSA[RETURN]UL[RETURN]CE[RETURN]DNV-GL
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...70 °C
IP degree of protection	IP40
Relative humidity	10...85 %
Vibration resistance	3 gn, amplitude = +/- 0.75 mm (f = 10...150 Hz)in operation 5 gn, amplitude = +/- 0.75 mm (f = 10...150 Hz)not in operation

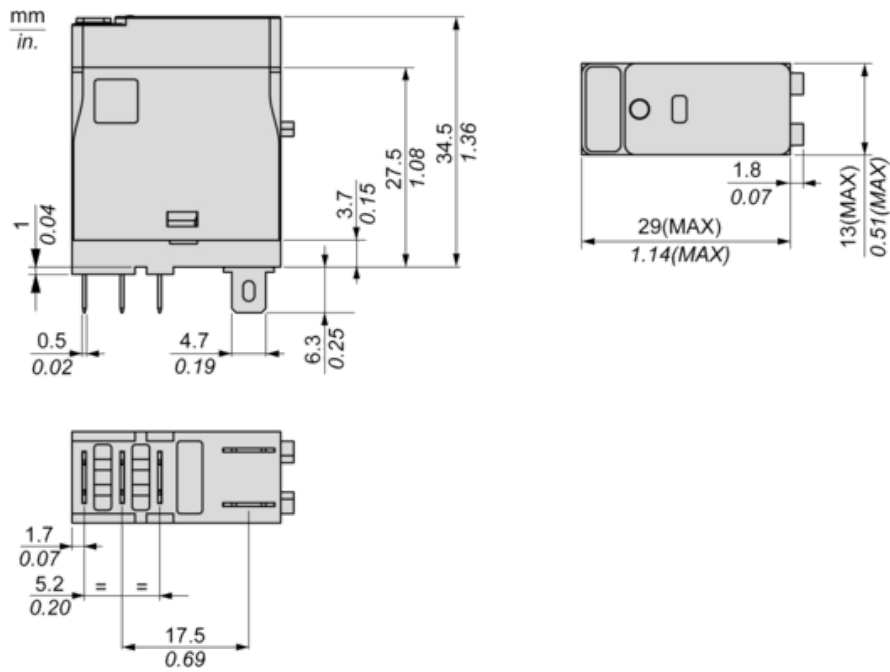
## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.45 cm
Package 1 Width	9.25 cm
Package 1 Length	8.6 cm
Package 1 Weight	221 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.5 cm
Package 2 Width	8.3 cm
Package 2 Length	9.1 cm
Package 2 Weight	229 g
Unit Type of Package 3	S01
Number of Units in Package 3	200
Package 3 Height	15 cm
Package 3 Width	15 cm
Package 3 Length	40 cm
Package 3 Weight	4.86 kg

## 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
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations

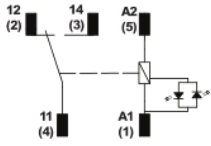
Dimensions



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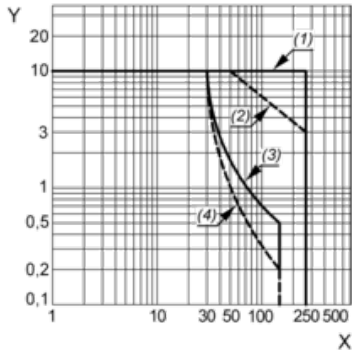
Wiring Diagram

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Performance Curves

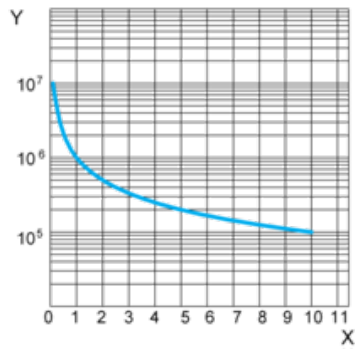
Maximum Switching Capacity



- 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

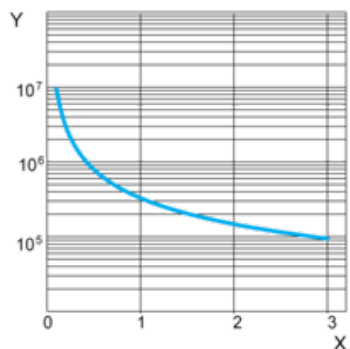
Resistive Load



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

Life Expectancy

Inductive Load

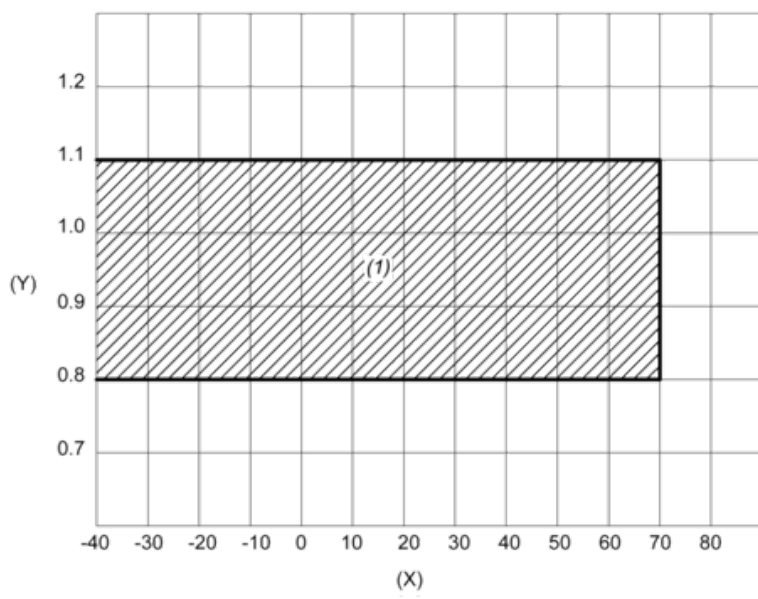


- X : Contact Current (A)
- Y : Operating Cycle Number

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

## Coil Operating Range

### AC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area