

## Product data sheet

### Characteristics

# RXG12E7

Harmony Electromechanical Relays, Interface plug in relay, 10A, 1CO, with LED, lockable test button, 48V 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
[I <sub>th</sub> ] conventional enclosed thermal current	10 A at -40...55 °C
Local signalling	Flag

### Complementary

Status LED	With
[I <sub>e</sub> ] 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	1100 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 U <sub>c</sub> AC
[U <sub>c</sub> ] control circuit voltage	48 V AC 50/60 Hz
Colour of cover	Standard
Drop-out voltage threshold	>= 0.3 U <sub>c</sub> 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
Control type	Lockable test button
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 (AgSnO2In2O3)
Net weight	0.02 kg






## Environment

Standards	IEC 61810-1 UL 508 CSA C22.2 No 14
Product certifications	UL[RETURN]CE[RETURN]CSA[RETURN]EAC[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

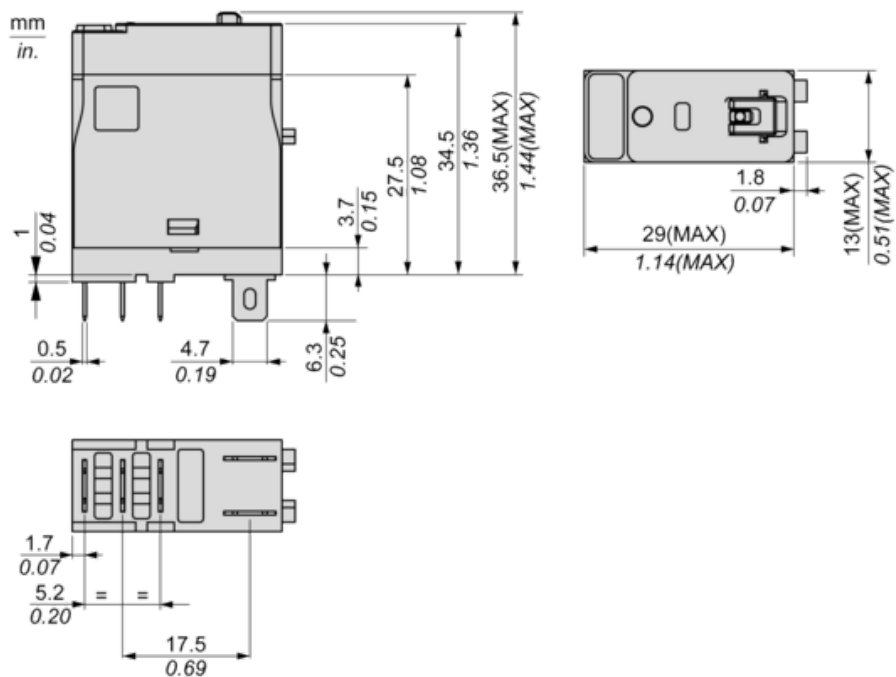
## Packing Units

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	223 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.4 cm
Package 2 Width	8.2 cm
Package 2 Length	9.1 cm
Package 2 Weight	233 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	4.96 kg

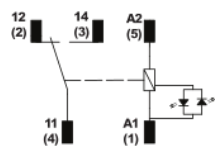
## Offer Sustainability

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	 <a href="#">Yes</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations

## Dimensions

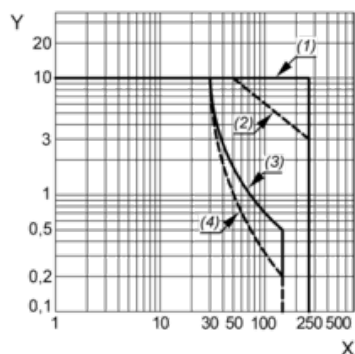


## Wiring Diagram



## Performance Curves

### Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

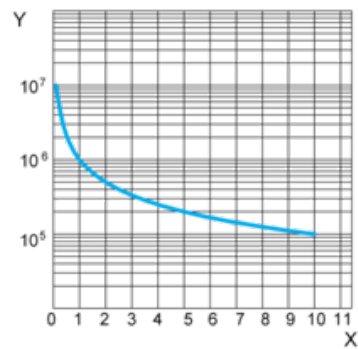
(2) AC Inductive Load  $\cos(\phi)=0.4$

(3) DC Resistive Load

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

### Life Expectancy

Resistive Load

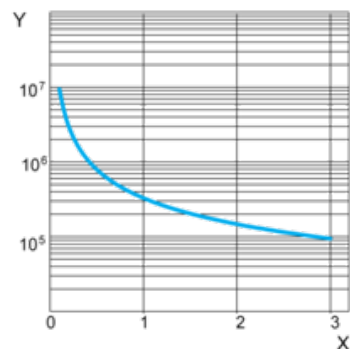


X : Contact Current (A)

Y : Operating Cycle Number

### Life Expectancy

Inductive Load

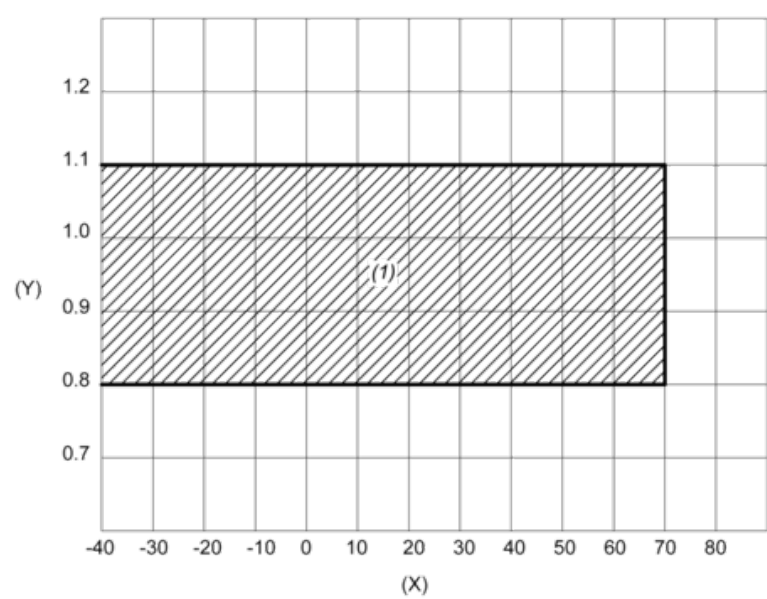


X : Contact Current (A)

Y : Operating Cycle Number

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

### AC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area