

Product data sheet

Specifications



interface plug in relay, Harmony Electromechanical Relays, 10A, 1C/O, with LED, lockable test button, 120V AC

RXG12F7

Main

Range of product	Harmony Electromechanical Relays
Series name	RXG series
Product or component type	Plug-in relay
Relay type	Interface relay
Contacts type and composition	1 C/O
[Uc] control circuit voltage	120 V AC
[Ithe] conventional enclosed thermal current	10 A at -40...55 °C
Local signalling	Flag

Complementary

status LED	With
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
Removable legend	With
Maximum switching voltage	250 V AC 30 V DC
Drop-out voltage threshold	$\geq 0.3 U_c$ 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
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 rate	≤ 1800 cycles/hour under load ≤ 18000 cycles/hour no-load
Utilisation coefficient	20 %
Operating time	20 ms
reset time	20 ms

Disclaimer: 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

Dielectric strength	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced insulation
Overvoltage category	III
Protection category	RT I
Pollution degree	2
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	Silver alloy (AgSnO2In2O3)
Shape of pin	Flat (faston type)
Net weight	0.02 kg

Environment

Standards	UL 508 IEC 61810-1 CSA C22.2 No 14
Product certifications	UL EAC CSA CE 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	4.200 cm
Package 1 Width	1.200 cm
Package 1 Length	3.200 cm
Package 1 Weight	20.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.500 cm
Package 2 Width	8.200 cm
Package 2 Length	9.100 cm
Package 2 Weight	226.000 g
Unit Type of Package 3	S01
Number of Units in Package 3	200
Package 3 Height	15.000 cm
Package 3 Width	15.000 cm
Package 3 Length	40.000 cm

Package 3 Weight 4.825 kg

Contractual warranty

Warranty 18 months



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

 Environmental footprint	
Total lifecycle Carbon footprint	14
Environmental Disclosure	Product Environmental Profile

Use Better

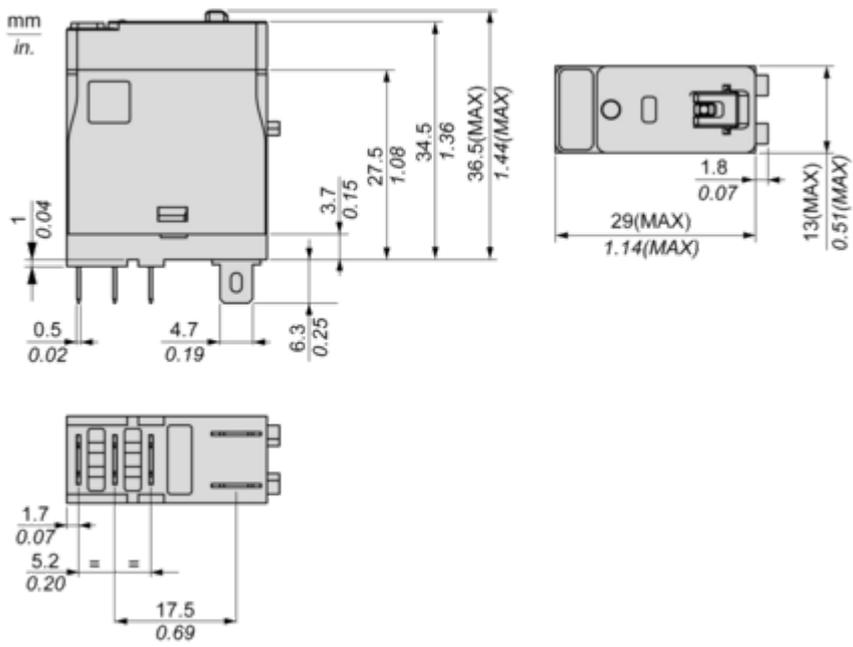
 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: 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 www.P65Warnings.ca.gov

Use Again

 Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

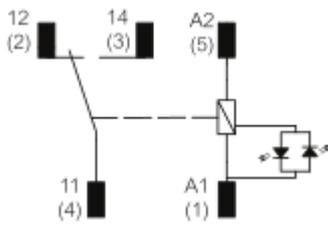
Dimensions Drawings

Dimensions



Connections and Schema

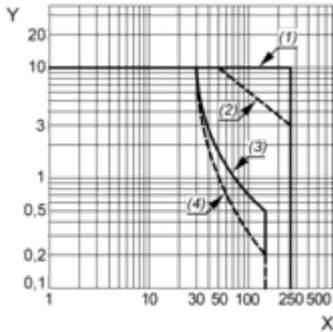
Wiring Diagram



Performance Curves

Performance Curves

Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

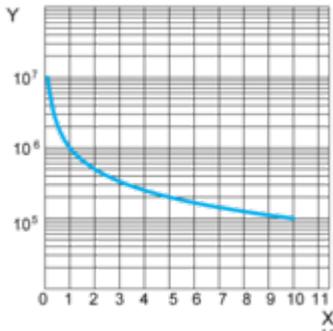
(2) AC Inductive Load $\cos(\phi)=0.4$

(3) DC Resistive Load

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

Life Expectancy

Resistive Load

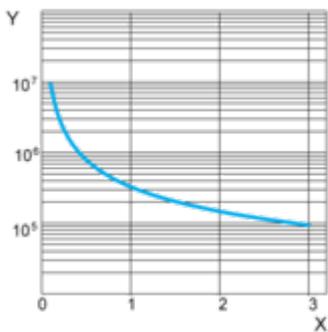


X : Contact Current (A)

Y : Operating Cycle Number

Life Expectancy

Inductive Load



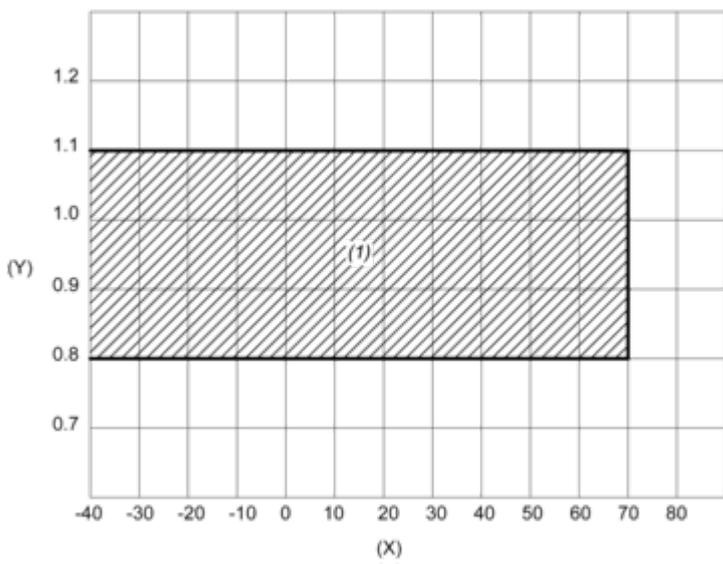
X : Contact Current (A)

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/U_c)

(1) Permitted operating range area

Technical Illustration

Dimensions

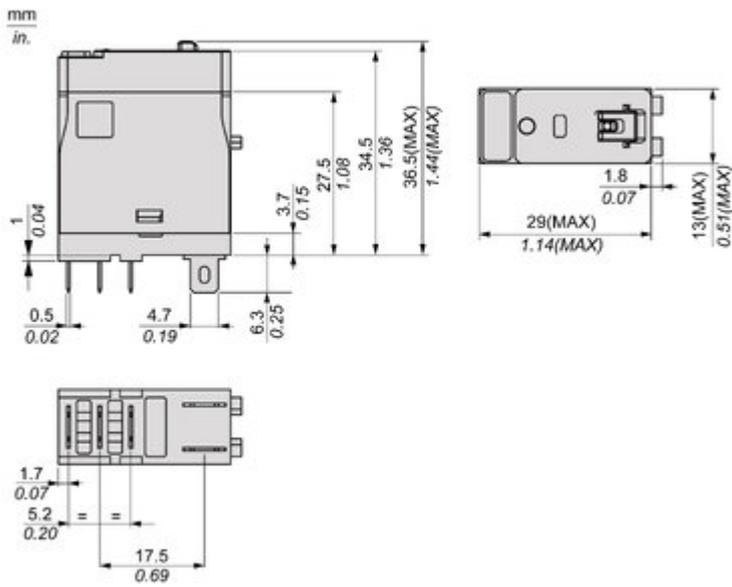


Image of product / Alternate images

Alternative



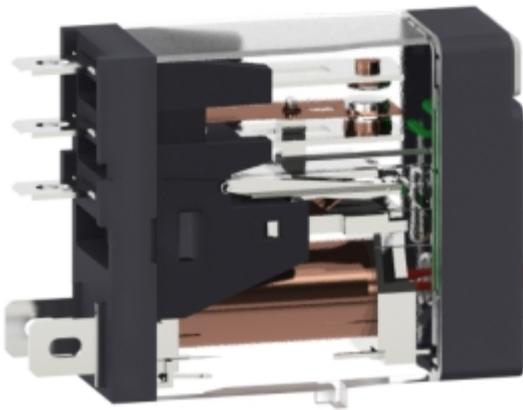




Image of product in real life situation

