

Product datasheet

Specifications



interface plug in relay, Harmony Electromechanical Relays, 10A, 1CO, basic, without LED, without lockable test button, 230V AC

RXG18P7

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	230 V AC
[Ithe] conventional enclosed thermal current	10 A at -40...55 °C

Complementary

status LED	Without
Electrical durability	100000 cycles for NO resistive load at 55 °C 100000 cycles for NC resistive load at 55 °C
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
Removable legend	Without
Maximum switching voltage	250 V AC 30 V DC
Drop-out voltage threshold	$\geq 0.3 U_c$ AC
[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 UL 10 A at 250 V (AC) conforming to IEC
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	Without lockable test button
Average resistance	23500 Ohm at 23 °C +/- 15 %
Contact resistance	100 mOhm
Insulation resistance	1000 MOhm at 500 V DC
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
Dielectric strength	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced insulation 1300 V AC between terminals and case with basic insulation
[Uimp] rated impulse withstand voltage	1200 V AC between contacts with micro disconnection 6000 V between coil and contact with reinforced insulation 1500 V between terminals and case with basic 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	0.019 kg

Environment

Standards	CSA C22.2 No 14 UL 508 IEC 61810-1
Product certifications	CSA CE UL EAC
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	1.400 cm
Package 1 Width	3.200 cm
Package 1 Length	3.600 cm
Package 1 Weight	18.000 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	9.000 cm
Package 2 Weight	207.000 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	4.327 kg

Contractual warranty

Warranty (in months)	18
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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	10 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	10 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No

Use Longer



Lifetime extension

Repair	No
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Use Again

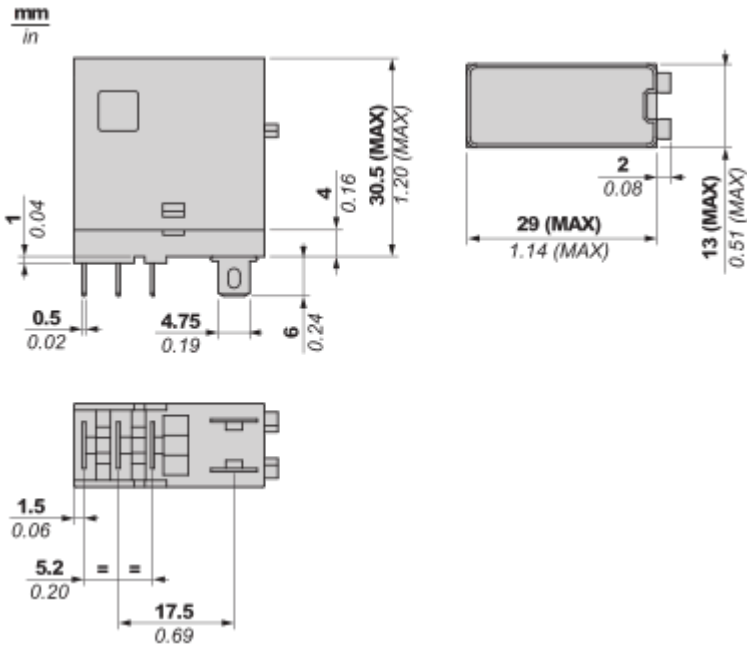


Repack and remanufacture

Recyclability potential, in %	70
End of life manual availability	End of Life Information
Take-back	No

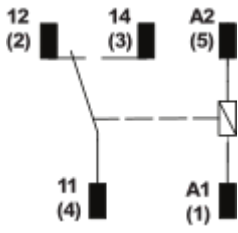
Dimensions Drawings

Dimensions



Connections and Schema

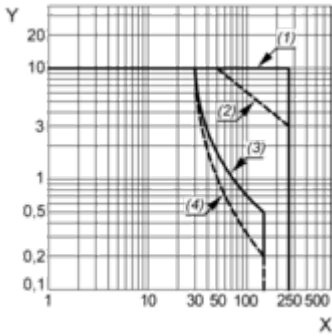
Wiring Diagram



Performance Curves

Performance Curves

Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

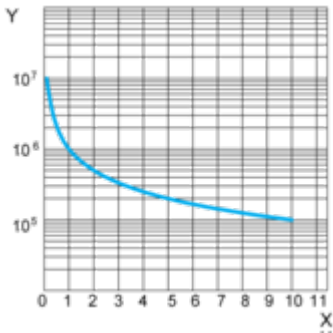
(2) AC Inductive Load $\cos(\phi)=0.4$

(3) DC Resistive Load

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

Life Expectancy

Resistive Load

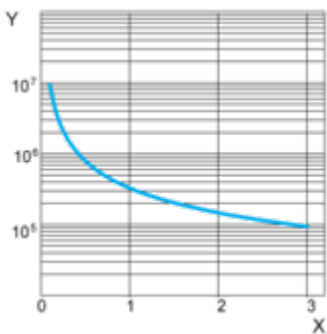


X : Contact Current (A)

Y : Operating Cycle Number

Life Expectancy

Inductive Load



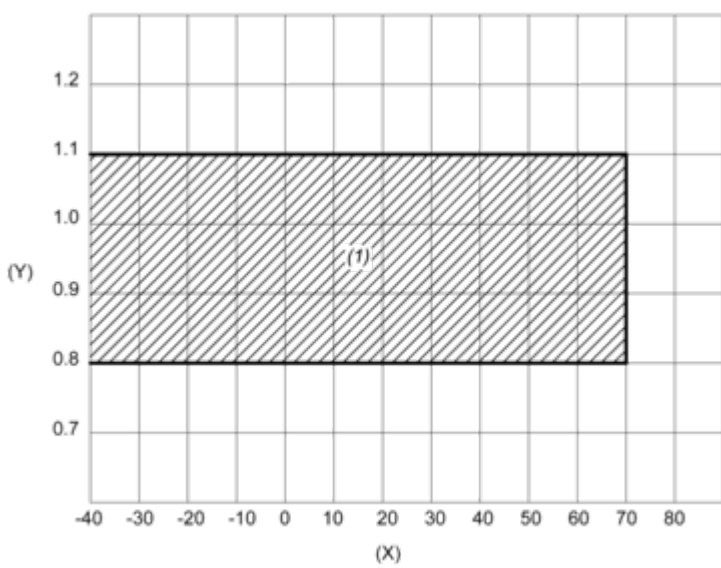
X : Contact Current (A)

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/Uc)

(1) Permitted operating range area

Technical Illustration

Dimensions

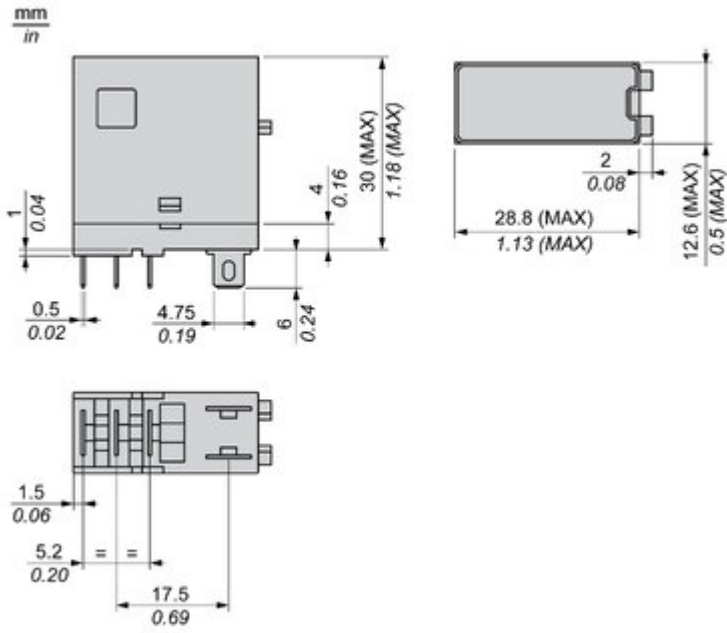


Image of product / Alternate images

Alternative

