

Product data sheet

Specifications



interface pre assembled plug in
relay with socket, Harmony
Electromechanical Relays, 10A,
1CO, with LED, lockable test button,
24V DC

RXG12BDPV

Main

Range of product	Harmony Electromechanical Relays
Series name	RXG series
Product or component type	Pre-assembled plug-in relay with socket
Relay type	Interface relay
Contacts type and composition	1 C/O
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	10 A

Complementary

status LED	With
[Ui] rated insulation voltage	250 V conforming to IEC
Removable legend	With
Maximum switching voltage	250 V
Drop-out voltage threshold	$\geq 0.1 U_c$ DC
Load current	10 A
Minimum switching capacity	500 mW at 100 mA, 5 V DC
Maximum switching capacity	2500 VA AC 300 W DC
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
Contact terminal arrangement	Separate

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

Connections - terminals	Connector, 1 x 0.25...1 x 2.5 mm² (AWG 22...AWG 14) flexible with cable end Connector, 2 x 0.25...2 x 1 mm² (AWG 22...AWG 17) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm² (AWG 20...AWG 14) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm² (AWG 20...AWG 16) solid without cable end
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
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)
Product weight	0.058 kg

Environment

Standards	IEC 61810-1 CSA C22.2 No 14 UL 508 IEC 61984
Product certifications	CSA CE EAC UL DNV-GL
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...70 °C
IP degree of protection	IP20
Relative humidity	10...85 %
Vibration resistance	3 gn, amplitude = +/- 1.5 mm (f = 10...150 Hz)in operation 5 gn, amplitude = +/- 1.5 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	7.960 cm
Package 1 Width	1.560 cm
Package 1 Length	7.200 cm
Package 1 Weight	58.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Height	9.000 cm
Package 2 Width	17.200 cm
Package 2 Length	27.200 cm
Package 2 Weight	1.927 kg
Unit Type of Package 3	S03

Number of Units in Package 3	180
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	12.125 kg

Contractual warranty

Warranty	18 months
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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	7

Use Better

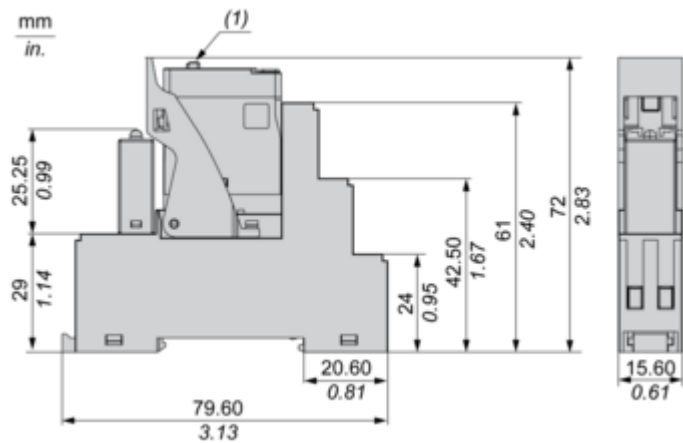
 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is 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	No need of specific recycling operations
Take-back	No

Dimensions Drawings

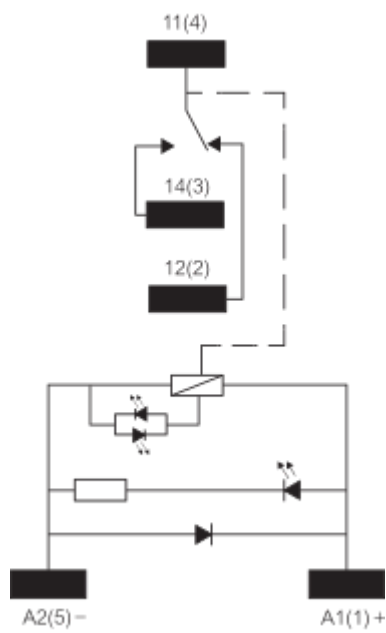
Dimensions



(1) Push button (if any)

Connections and Schema

Wiring Diagram

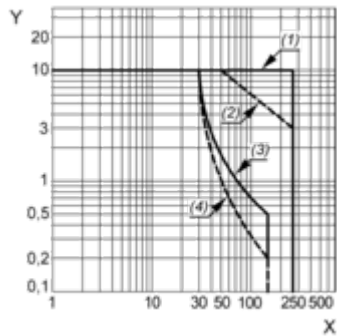


NOTE: For DC input , A1 have to be + , otherwise it would short circuit from protection module

Performance Curves

Performance Curves

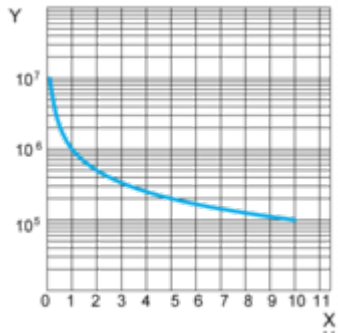
Maximum Switching Capacity



- X : Switching voltage (V)
Y : Switching current (A)
(1) AC Resistive Load
(2) AC Inductive Load $\cos(\varnothing)=0.4$
(3) DC Resistive Load
(4) DC Inductive Load (L/R=7ms)

Life Expectancy

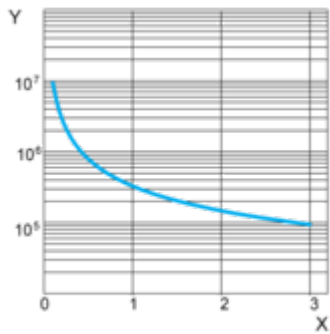
Resistive Load



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

Life Expectancy

Inductive Load

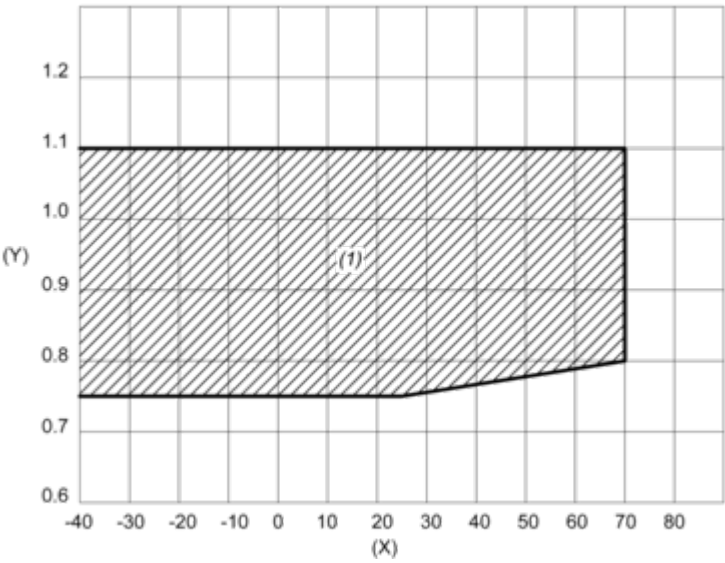


- X : Contact Current (A)
Y : Operating Cycle Number

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

Coil Operating Range

DC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)
Y : Coil voltage (U/Uc)
(1) Permitted operating range area

Technical Illustration

Dimensions

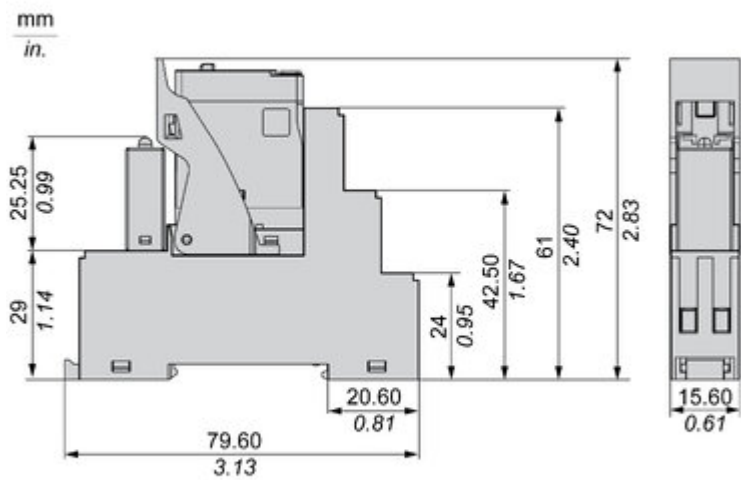
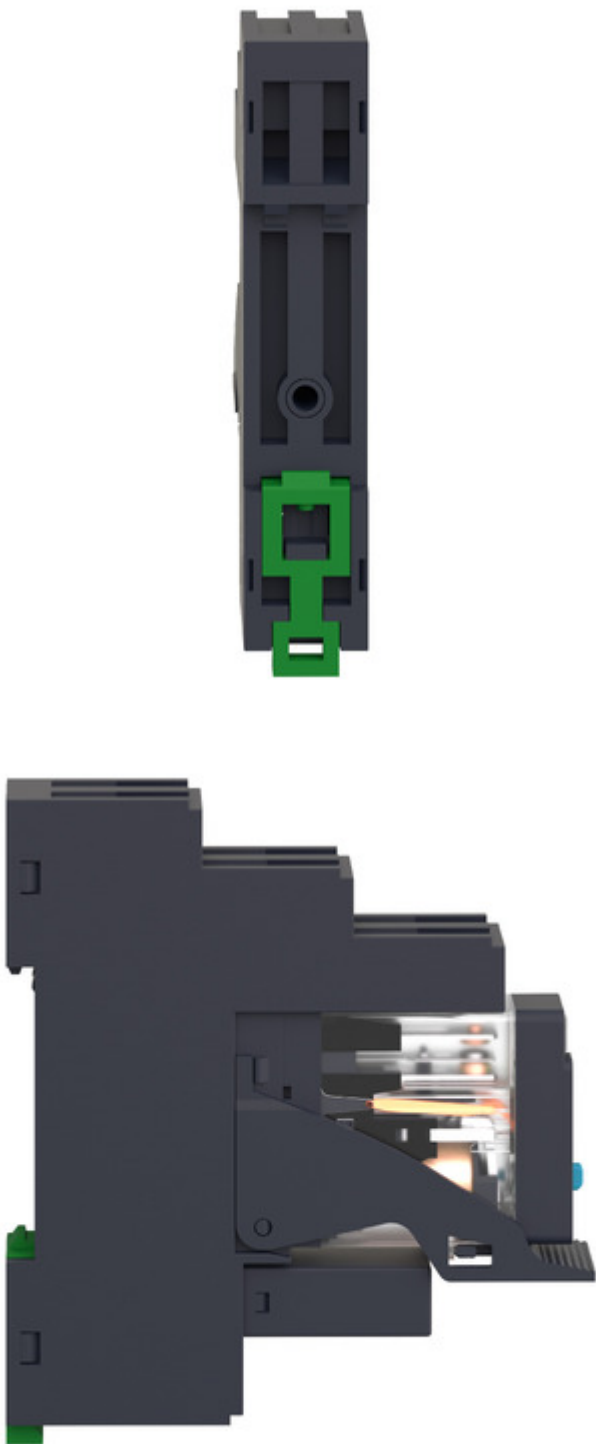


Image of product / Alternate images

Alternative



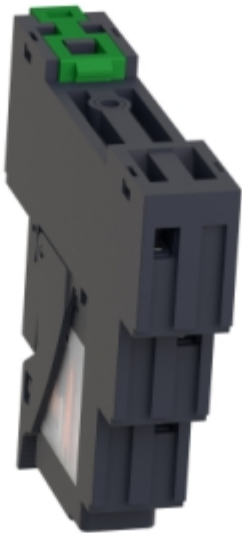




Image of product in real life situation

