Product data sheet

Specifications



interface plug in relay, Harmony Electromechanical Relays, pre assembled, 5A, 2CO, with LED, lockable test but to n, 24V DC

RXG22BDPV

Product availability: Stock - Normally stocked in distribution facility

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	2 C/O
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	5 A

Complementary

Status LED	With
Electrical durability	100000 cycles NO resistive at 55 °C 100000 cycles NC resistive at 55 °C
[Ui] rated insulation voltage	250 V IEC
Removable legend	With
Maximum switching voltage	250 V
Drop-out voltage threshold	>= 0.1 Uc DC
[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	5 A
Minimum switching capacity	50 mW at 10 mA, 5 V DC
Maximum switching capacity	1250 VA AC 150 W DC
Control Type	Lockable test button
Average resistance	1100 Ohm at 73 °F (23 °C) +/- 10 %
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

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Utilisation coefficient	20 %
Operating time	20 ms
Reset time	20 ms
Contact terminal arrangement	Separate
Connections - terminals	Connector, 1 x 0.25...1 x 2.5 mm² 22 AWG...14 AWG) flexible with cable end Connector, 2 x 0.25...2 x 1 mm² 22 AWG...17 AWG) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm² 20 AWG...14 AWG) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm² 20 AWG...16 AWG) 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 3000 V AC between poles with basic insulation 5000 V AC between coil and contact with reinforced 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	0.143 lb(US) (0.065 kg)

Environment

Standards	IEC 61810-1 CSA C22.2 No 14 UL 508 IEC 61984
Product Certifications	CSA CE EAC UL DNV
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Ambient Air Temperature for Operation	-40…158 °F (-40…70 °C)
IP Degree of Protection	IP20
Relative humidity	10…85 %
Vibration resistance	3 gn +/- 1.5 mm 10…150 Hz)in operation 5 gn +/- 1.5 mm 10…150 Hz)not in operation

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	03606489562885
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.150 in (8.000 cm)
Package 1 Width	0.614 in (1.560 cm)
Package 1 Length	2.874 in (7.300 cm)
Package weight(Lbs)	2.222 oz (63.000 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Height	3.543 in (9.000 cm)
Package 2 Width	6.890 in (17.500 cm)
Package 2 Length	10.709 in (27.200 cm)
Package 2 Weight	4.658 lb(US) (2.113 kg)
Unit Type of Package 3	S03
Number of Units in Package 3	180
Package 3 Height	11.8 in (30 cm)
Package 3 Width	11.8 in (30 cm)
Package 3 Length	15.7 in (40 cm)
Package 3 Weight	29.123 lb(US) (13.210 kg)

Contractual warranty

Warranty (in months)	18

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	**6 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**0.5 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**6 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0 kg CO2 eq.**
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	**Compliant**
REACh Regulation	**Free of Substances of Very High Concern above the threshold**
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**

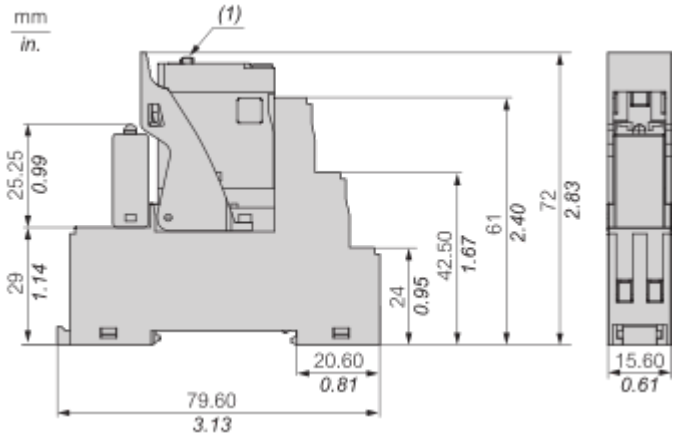
Use Again

Repack and remanufacture

Recyclability potential, in %	**69**
Circularity Profile	**End of Life Information**
Take-back	**No**

Dimensions Drawings

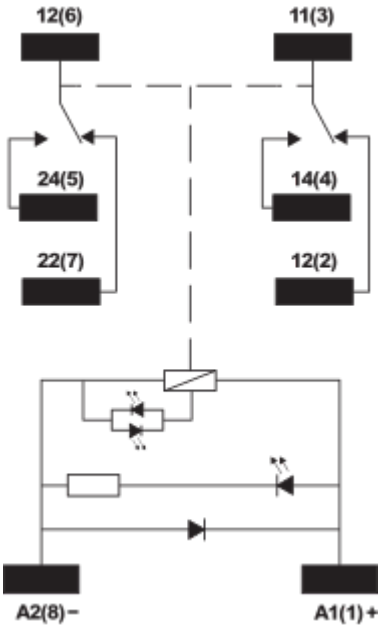
Dimensions



(1) Push button (if any)

Connections and Schema

Wiring Diagram

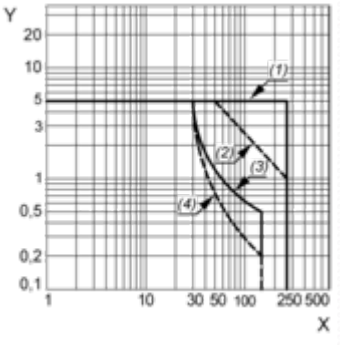


NOTE: For DC input , A1 have to be + , otherwise it would short circuit from protection module

Performance Curves

Performance Curves

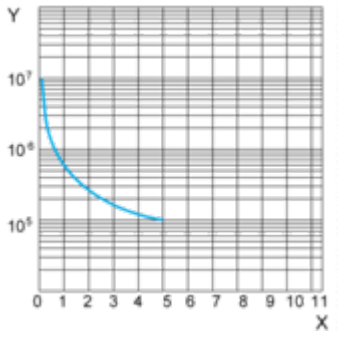
Maximum Switching Capacity



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

Life Expectancy

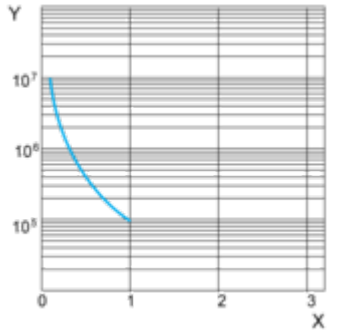
Resistive Load



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

Life Expectancy

Inductive Load

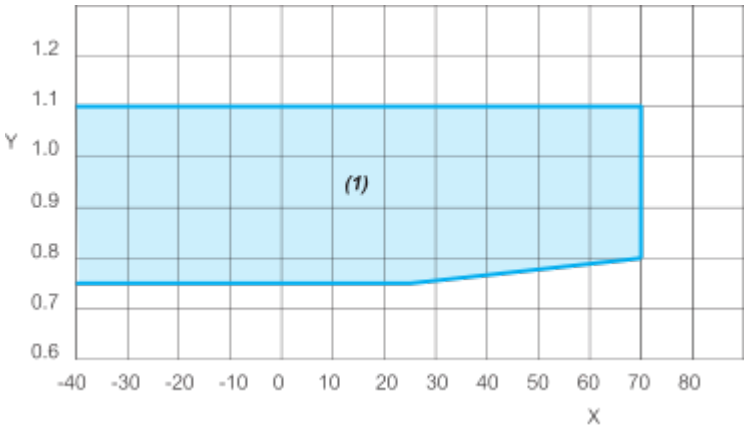


X : Contact Current (A)
Y : Operating Cycle Number

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 : DC Coil voltage (U/Uc)
(1) : Permitted operating range area

Image of product / Alternate images

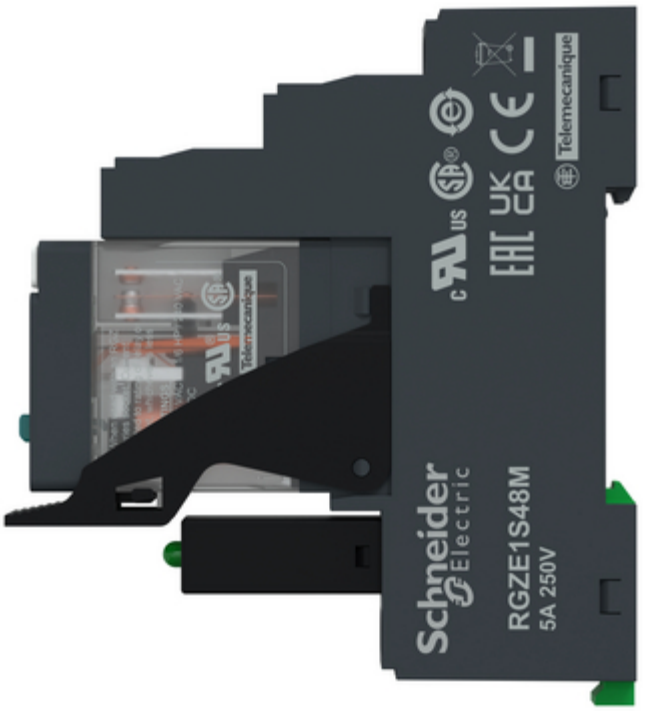
Alternative










Schneider Electric
RGZE1S48M
5A 250V
Telemecanique


21
COM
11
24
NO
14
22
NC
12
RXG
Schneider Electric
A2
COIL
A1

Image of product in real life situation

