

Product datasheet

Specifications



Interface plug-in relay, 5 A, 2 CO, lockable test button, 48 V AC

RXG21E7

! Discontinued on: 01 November 2020

! Discontinued

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	2 C/O
[Ithe] conventional enclosed thermal current	5 A at -40...55 °C
Local signalling	Flag

Complementary

Status LED	Without
[Ie] rated operational current	5 A at 30 V (DC) conforming to UL 5 A at 30 V (DC) conforming to IEC 5 A at 250 V (AC) conforming to IEC 5 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 Uc AC
[Uc] control circuit voltage	48 V AC 50/60 Hz
Colour of cover	Standard
Drop-out voltage threshold	>= 0.3 Uc AC
Load current	5 A at 250 V AC
Minimum switching capacity	50 mW at 10 mA, 5 V DC
Maximum switching capacity	1250 VA
Control type	Lockable test button
Torque value	0.8 N.m

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 time	20 ms
Reset time	20 ms
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
[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 3000 V AC between poles with basic insulation
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	Silver alloy (AgSnO2In2O3)
Net weight	0.02 kg

Environment

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

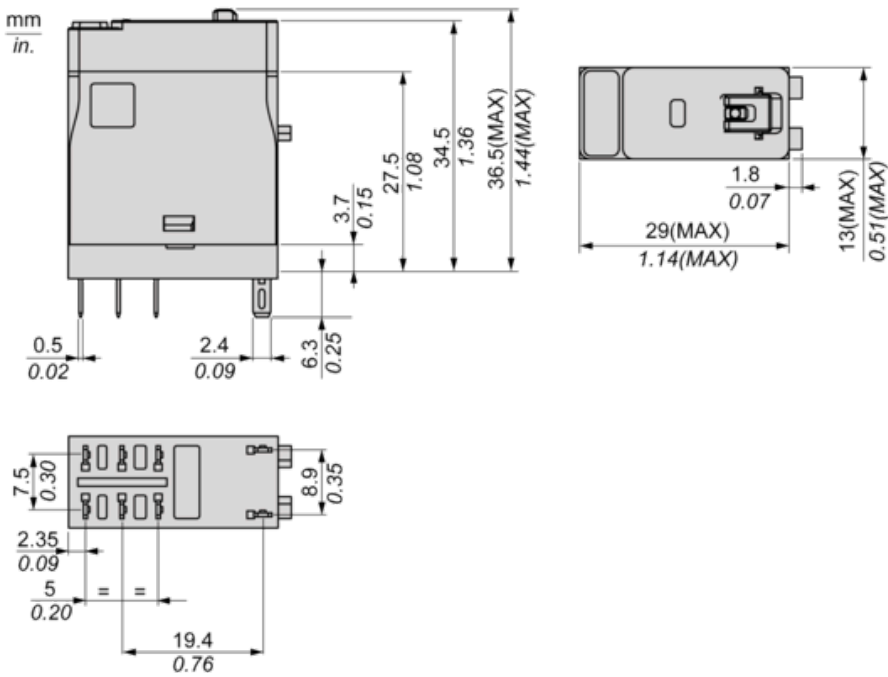
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.45 cm
Package 1 Width	9.25 cm
Package 1 Length	8.6 cm
Package 1 Weight	219 g

Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.5 cm
Package 2 Width	8.2 cm
Package 2 Length	9.1 cm
Package 2 Weight	221 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	4.63 kg

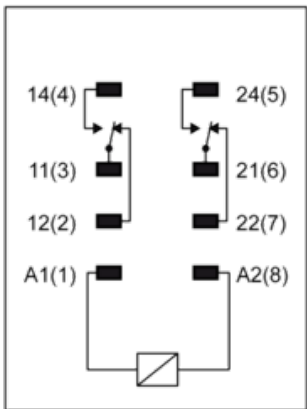
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations

Dimensions

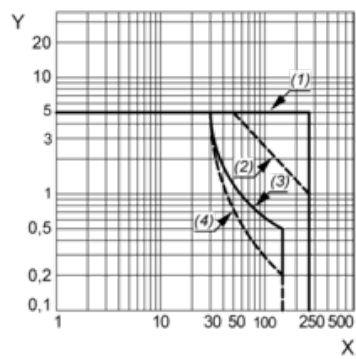


Wiring Diagram



Performance Curves

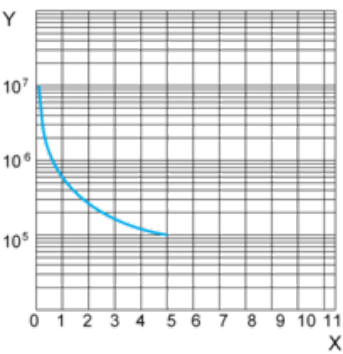
Maximum Switching Capacity



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

Life Expectancy

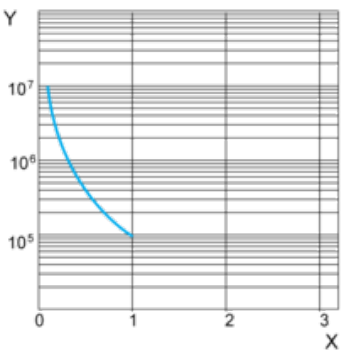
Resistive Load



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

Life Expectancy

Inductive Load

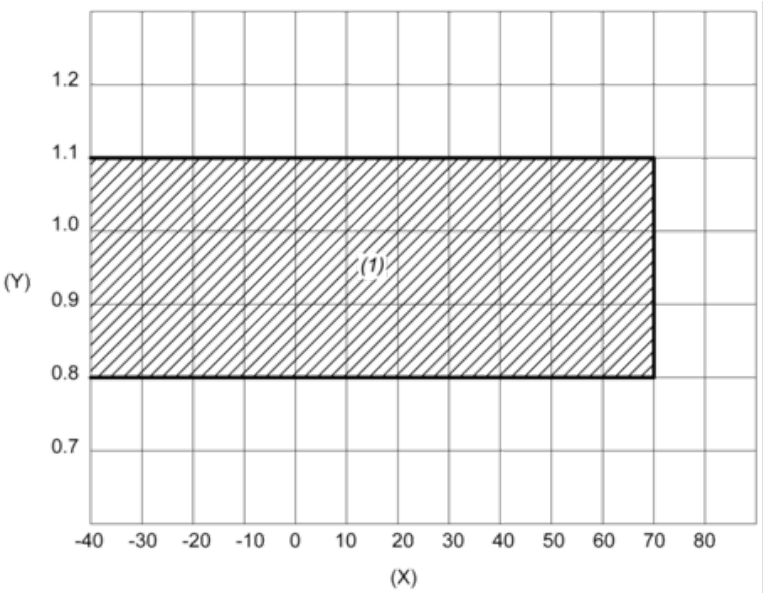


- X : Contact Current (A)
- Y : Operating Cycle Number

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

Recommended replacement(s)