

# Product datasheet

Specifications



## Interface plug-in relay, 10 A, 1 CO, lockable test button, LED, 110 V DC

RXG12FD

⚠ 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	1 C/O
[I <sub>th</sub> e] conventional enclosed thermal current	10 A at -40...55 °C
Local signalling	Flag

### Complementary

Status LED	With
[I <sub>e</sub> ] 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 IEC 10 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	22800 Ohm +/- 15 %
Shock resistance	20 gn in operation 100 gn not in operation
Mounting position	Any position
[U <sub>c</sub> ] control circuit voltage	110 V DC
Colour of cover	Standard
Drop-out voltage threshold	>= 0.1 U <sub>c</sub> DC
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
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
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	Silver alloy (AgSnO2In2O3)
Net weight	0.02 kg

## Environment

Standards	CSA C22.2 No 14 IEC 61810-1 UL 508
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	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	228 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	225 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	4.57 kg

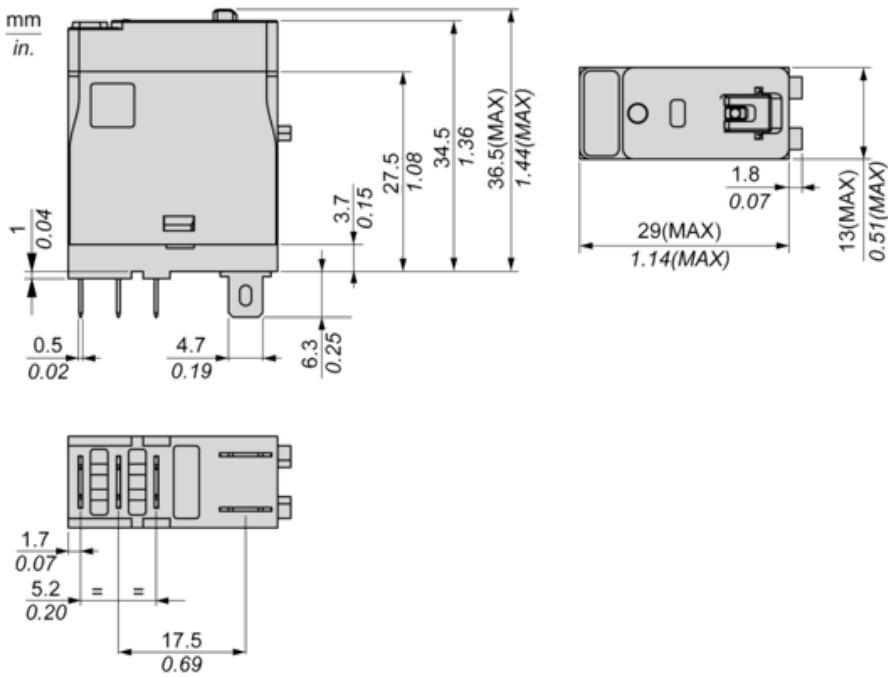
Offer Sustainability

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

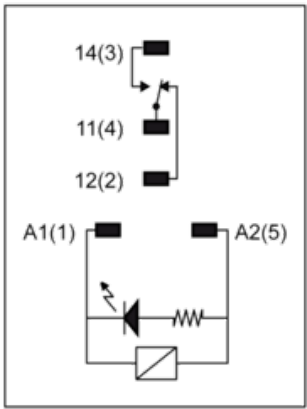
Contractual warranty

Warranty	18 months
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Dimensions

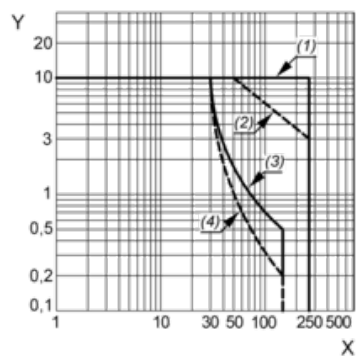


Wiring Diagram



Performance Curves

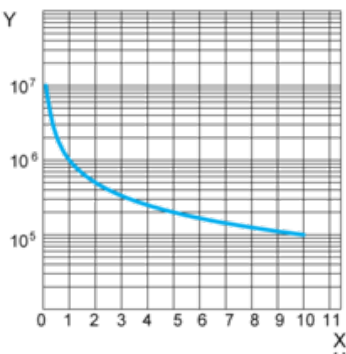
Maximum Switching Capacity



- 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

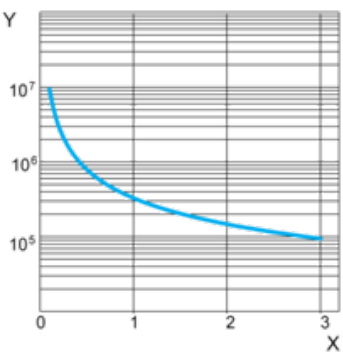
Resistive Load



- 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

DC Coil Operating Range VS Ambient Temperature



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

Recommended replacement(s)