

Product datasheet

Specifications



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

RXG12FD

⚠ Discontinued on: 10 Jul 2021

⚠ 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
[Ithe] Conventional Enclosed Thermal Current	10 A at -40...55 °C
Local Signalling	Flag

Complementary

Status Led	With
[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 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
[Uc] Control Circuit Voltage	110 V DC
Colour Of Cover	Standard
Drop-Out Voltage Threshold	$\geq 0.1 U_c$ 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
Pollution Degree	2
Utilisation Coefficient	20 %
[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

Contractual warranty

Warranty	18 months
----------	-----------

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

[EU RoHS Declaration](#)

China Rohs Regulation

[China RoHS declaration](#)

Environmental Disclosure

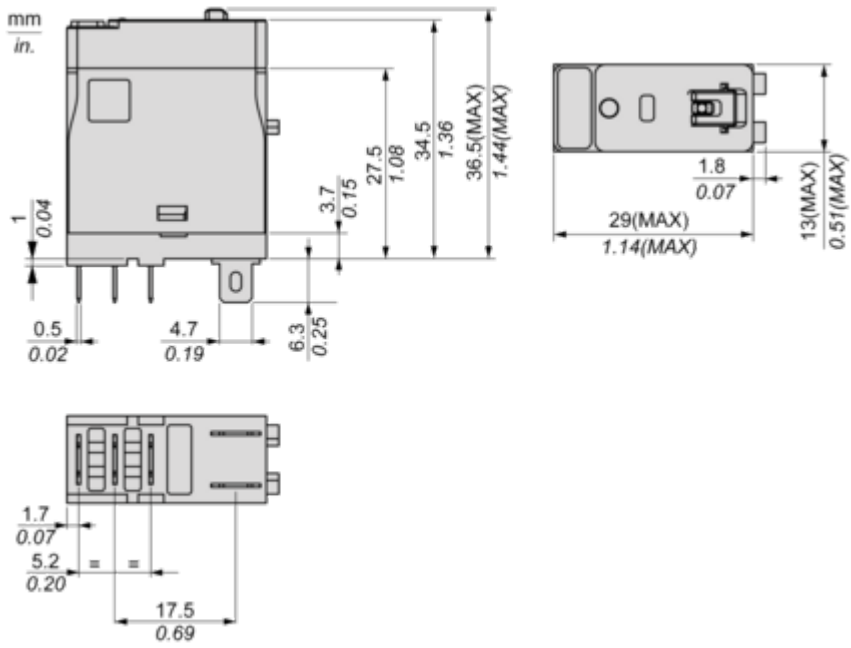
[Product Environmental Profile](#)

Circularity Profile

No need of specific recycling operations

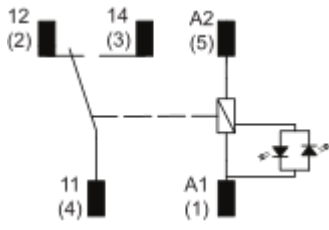
Dimensions Drawings

Dimensions



Connections and Schema

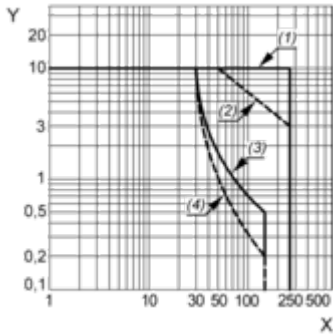
Wiring Diagram



Performance Curves

Performance Curves

Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

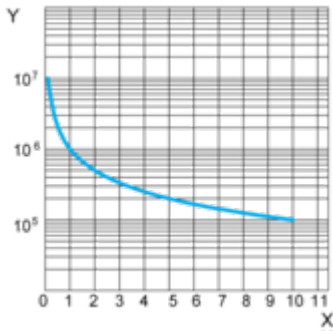
(2) AC Inductive Load $\cos(\phi)=0.4$

(3) DC Resistive Load

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

Life Expectancy

Resistive Load

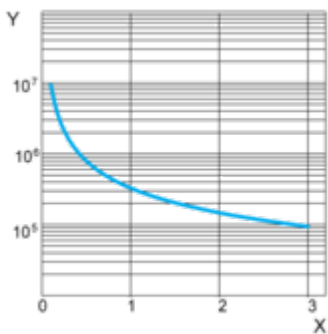


X : Contact Current (A)

Y : Operating Cycle Number

Life Expectancy

Inductive Load



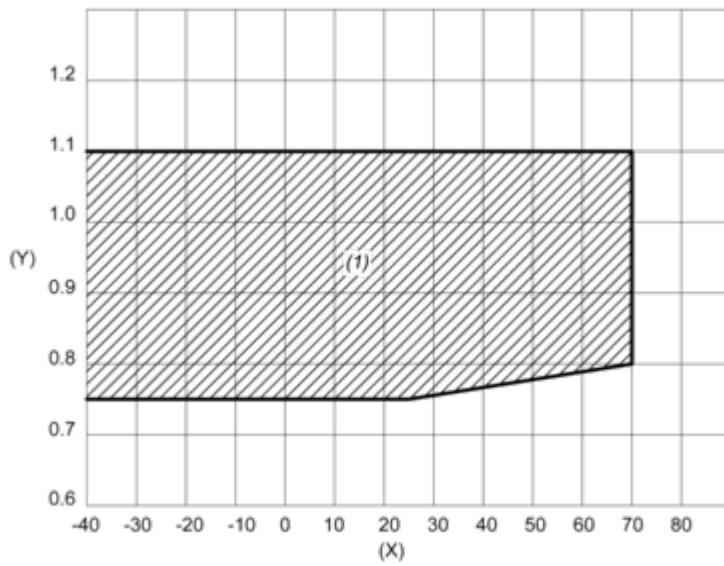
X : Contact Current (A)

Y : Operating Cycle Number

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

Coil Operating Range

DC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area