

Product data sheet Characteristics

RXG12JD

Harmony, Interface plug-in relay, 10 A, 1 CO, with LED, with lockable test button, 12 V DC





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

Complementary

Status LED	With
Contacts material	Silver alloy (AgSnO2In2O3)
Maximum contact resistance	100 mOhm
[Ithe] conventional enclosed thermal current	10 A at -4055 °C
[le] 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
Maximum switching voltage	250 V AC 30 V DC
Load current	10 A at 250 V AC
Maximum switching capacity	2500 VA
Minimum switching capacity	500 mW at 100 mA, 5 V DC
Operating rate	<= 1800 cycles/hour under load <= 18000 cycles/hour no-load
Utilisation coefficient	20 %
Mechanical durability	10000000 cycles
Electrical durability	100000 Cycles for NO resistive load at 55 °C 100000 cycles for NC resistive load at 55 °C
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
[Uimp] rated impulse withstand voltage	6 kV 1.2/50 μs
Dielectric strength	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced insulation
Coil resistance	270 Ohm +/- 10 %
Insulation resistance	1000 MOhm at 500 V DC
Test levels	Level A group mounting
Mounting position	Any position
Drop-out voltage threshold	>= 0.1 Uc DC
Coil insulation class	Class F
Operate time	20 ms
Release time	20 ms
[Uc] control circuit voltage	12 V DC

Safety reliability data	B10d = 100000	
Colour of cover	Standard	
Control type	Lockable test button	
Local signalling	Flag	
Torque value	0.8 N.m	
Net weight	0.02 kg	
Device presentation	Complete product	

Environment

Vibration resistance	3 gn, amplitude = +/- 0.75 mm (f = 10150 Hz)in operation
	5 gn, amplitude = +/- 0.75 mm (f = 10150 Hz)not in operation
IP degree of protection	IP40
Shock resistance	20 gn in operation
	100 gn not in operation
Protection category	RT I
Standards	UL 508
	CSA C22.2 No 14
	IEC 61810-1
Product certifications	EAC
	CE
	CSA
	UL
Pollution degree	2
Overvoltage category	III
Ambient air temperature for storage	-4085 °C
Ambient air temperature for operation	-4070 °C
Relative humidity	1085 %

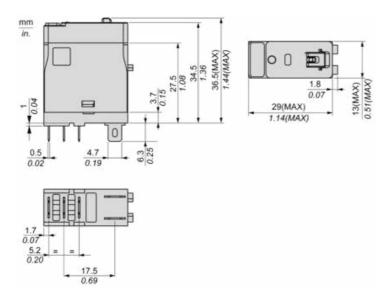
Packing Units

Package 1 Weight	20.400 g	
Package 1 Height	35.500 mm	
Package 1 width	13.000 mm	
Package 1 Length	29.000 mm	

Offer Sustainability

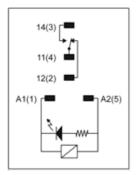
Sustainable offer status	Green Premium product
REACh Regulation	[®] REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	₽¥Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile

Dimensions



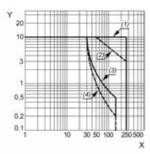
RXG12JD

Wiring Diagram



Performance Curves

Maximum Switching Capacity



X : Switching voltage (V)

Y: Switching current (A)

(1) AC Resistive Load

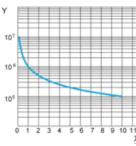
(2) AC Inductive Load cos(Ø)=0.4

(3) DC Resistive Load

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

Life Expectancy

Resistive Load

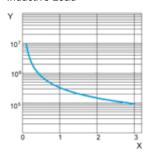


X : Contact Current (A)

Y : Operating Cycle Number

Life Expectancy

Inductive Load



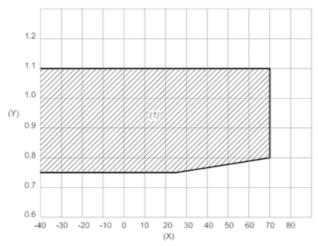
X: Contact Current (A)

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