



### Main

Range of product	Harmony Electromechanical Relays
Series name	Miniature
Product or component type	Plug-in relay
Device short name	RXM
Coil interference suppression	Without
Utilisation coefficient	20 %
Sale per indivisible quantity	10

### Complementary

Contacts type and composition	2 C/O
Contact operation	Standard
[Uc] control circuit voltage	24 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	5 A at -40...55 °C
Status LED	Without
Control type	Without push-button
[Ui] rated insulation voltage	250 V conforming to IEC
[Uimp] rated impulse withstand voltage	4 kV during 1.2/50 µs conforming to IEC 61810-7
Contacts material	Silver alloy (Ag/Ni)
[Ie] rated operational current	5 A (AC-1/DC-1) NO conforming to IEC 2.5 A (AC-1/DC-1) NC conforming to IEC 1 A at 28 V (DC-13) NO
Minimum switching current	10 mA
Maximum switching voltage	250 V AC 28 V DC
Minimum switching voltage	17 V
Load current	5 A at 250 V AC 5 A at 28 V DC
Maximum switching capacity	1250 VA AC 140 W DC
Minimum switching capacity	170 mW
Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical durability	10000000 cycles
Electrical durability	100000 Cycles for resistive load 50000 cycles, 1 A at 28 V, DC-13 NO
Average coil consumption in VA	1.2 AC
Drop-out voltage threshold	>= 0.15 U <sub>c</sub> AC
Operating time	20 ms between coil de-energisation and making of the Off-delay contact 20 ms between coil energisation and making of the On-delay contact
Average resistance	180 Ohm at 23 °C +/- 10 %
Rated operational voltage limits	19.2...26.4 V AC
Protection category	RT I
Test levels	Level A group mounting
Operating position	Any position
CAD overall width	21 mm

CAD overall height	27 mm
CAD overall depth	46 mm
Product weight	0.033 kg
Dielectric strength	2000 V AC between coil and contact with basic insulation 2000 V AC between poles with basic insulation 1000 V AC between contacts with micro disconnection
Safety reliability data	B10d = 100000

## Environment

Standards	CE EN/IEC 61810-1 (iss. 2)
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10...50 Hz)operating conforming to EN/IEC 60068-2-6 6 gn, amplitude = +/- 1 mm (f = 10...50 Hz)not operating conforming to EN/IEC 60068-2-6
IP degree of protection	IP40 conforming to EN/IEC 60529
Pollution degree	3
Shock resistance	30 gn for not operating conforming to EN/IEC 60068-2-27 10 gn for in operation conforming to EN/IEC 60068-2-27

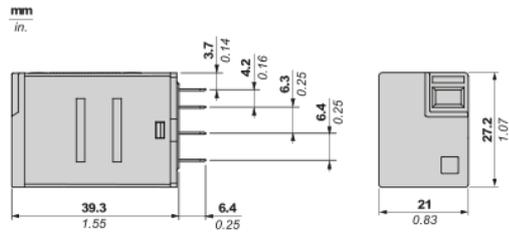
## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.099 cm
Package 1 Width	2.751 cm
Package 1 Length	4.596 cm
Package 1 Weight	36.0 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.0 cm
Package 2 Width	10.9 cm
Package 2 Length	13.2 cm
Package 2 Weight	341.0 g
Unit Type of Package 3	CAR
Number of Units in Package 3	270
Package 3 Height	14.7 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	9.66 kg

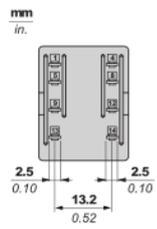
## Offer Sustainability

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	 <a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

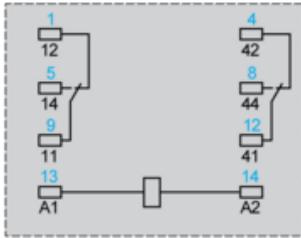
Dimensions



Pin Side View



## Wiring Diagram

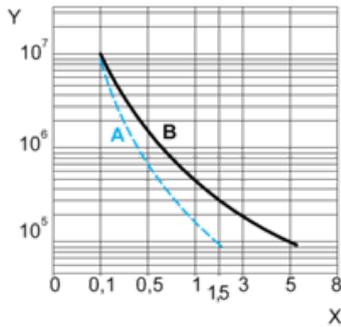


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

Durability (inductive load) = durability (resistive load) x reduction coefficient.

For 2 Poles Relay



X : Contact current (A)

Y : Durability (Number of operating cycles)

A : Inductive load

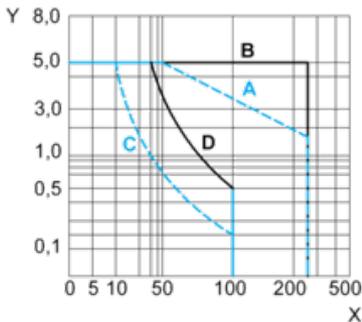
B : Resistive load

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

For inductive load, to increase relay life cycles, please add a proper load protection circuit (eg: RC protection/Varistor/free Wheeling diode - DC load only- )

Maximum Switching Capacity

For 2 Poles Relay



X : Contact voltage (v)

Y : Contact current (A)

A : Inductive AC load

B : Resistive AC load

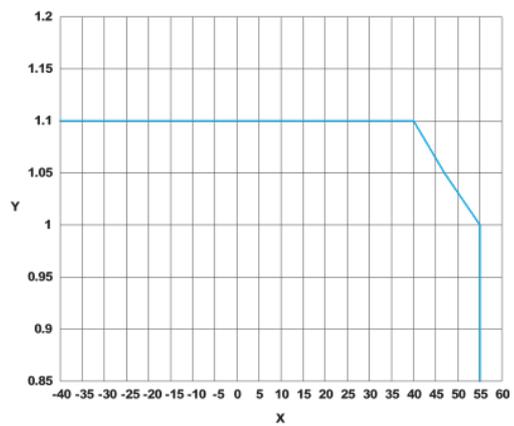
C : Inductive DC load

D : Resistive DC load

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

For inductive load, to increase relay life cycles, please add a proper load protection circuit (eg: RC protection/Varistor/free Wheeling diode - DC load only- )

AC Coil Voltage and Operating Temperature under continuous duty



X : Operating temperature (°C)

Y : AC coil voltage (UC)