

Product data sheet

Specifications



miniature plug in relay, Harmony Electromechanical Relays, 3A, 4CO, with LED, lockable test button, flat (faston type), 24V DC

RXM4GB2BD

Main

Range of product	Harmony Electromechanical Relays
Series name	RXM series
Product or component type	Plug-in relay
Relay type	Miniature relay
Contacts type and composition	4 C/O
status LED	With
Control type	Lockable test button
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	3 A at -40...55 °C

Complementary

[Uimp] rated impulse withstand voltage	2.5 kV during 1.2/50 µs
[Ie] rated operational current	2 A at 28 V (DC) NO conforming to IEC 2 A at 250 V (AC) NO conforming to IEC 1 A at 28 V (DC) NC conforming to IEC 1 A at 250 V (AC) NC conforming to IEC 3 A at 28 V (DC) conforming to UL 3 A at 277 V (AC) conforming to UL
Minimum switching capacity	15 mW at 3 mA, 5 V
Electrical durability	100000 cycles for resistive load depending on mounting position and working environment
Rated operational voltage limits	19.2...26.4 V DC
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
Maximum switching voltage	250 V conforming to IEC
Drop-out voltage threshold	>= 0.1 Uc
Load current	3 A at 250 V AC 3 A at 28 V DC
Operating time	20 ms
Maximum switching capacity	750 VA/84 W
Average resistance	650 Ohm at 20 °C +/- 10 %
Average coil consumption	0.9 W
Mechanical durability	10000000 cycles
Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Utilisation coefficient	20 %
reset time	20 ms
Dielectric strength	1300 V AC between contacts with micro disconnection 2000 V AC between coil and contact 2000 V AC between poles
Compatibility code	RXM
Protection category	RT I
Pollution degree	2
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	Gold plated bifurcated silver
Shape of pin	Flat (faston type)
Net weight	0.037 kg

Environment

Ambient air temperature for operation	-40...55 °C
IP degree of protection	IP40 conforming to IEC 60529
Standards	IEC 61810-1 CSA C22.2 No 14 UL 508
Product certifications	UL Lloyd's CE CSA GOST IECEE CB Scheme
Ambient air temperature for storage	-40...85 °C
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles in operation 5 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles not operating
Shock resistance	10 gn for in operation 30 gn for not operating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2 cm
Package 1 Width	2.5 cm
Package 1 Length	4.5 cm
Package 1 Weight	36 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3 cm
Package 2 Width	10 cm
Package 2 Length	12.5 cm
Package 2 Weight	403 g

Unit Type of Package 3	S02
Number of Units in Package 3	240
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	9.943 kg

Contractual warranty

Warranty	18 months
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Total lifecycle Carbon footprint	13
Environmental Disclosure	Product Environmental Profile

Use Better

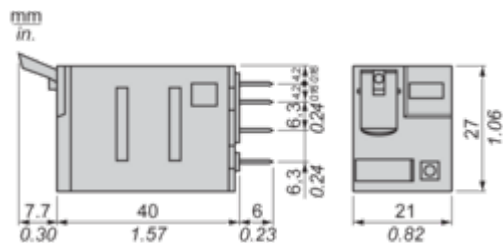
Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Again

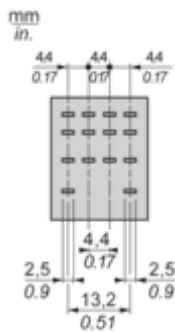
Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

Dimensions Drawings

Dimensions



Pin Side View



Connections and Schema

Wiring Diagram

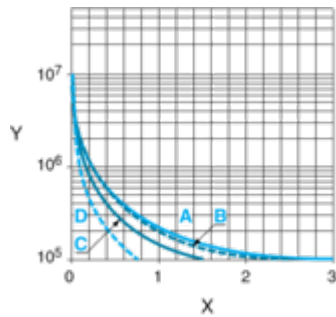


Symbols shown in blue correspond to Nema marking.

Performance Curves

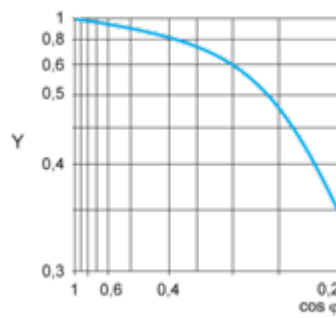
Electrical Durability of Contacts

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

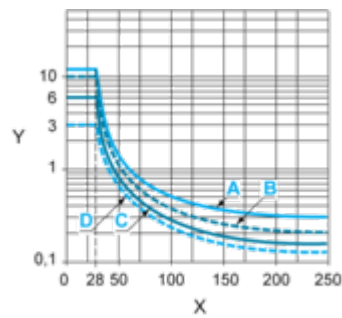


- X Switching capacity (kVA)
Y Durability (Number of operating cycles)
A RXM2AB...
B RXM3AB...
C RXM4AB...
D RXM4GB...

Reduction coefficient for inductive AC load (depending on power factor cos φ)



- Y Reduction coefficient (A)
Maximum switching capacity on resistive DC load



- X Voltage DC
Y Current DC
A RXM2AB...
B RXM3AB...
C RXM4AB...
D RXM4GB...

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

Technical Illustration

Dimensions

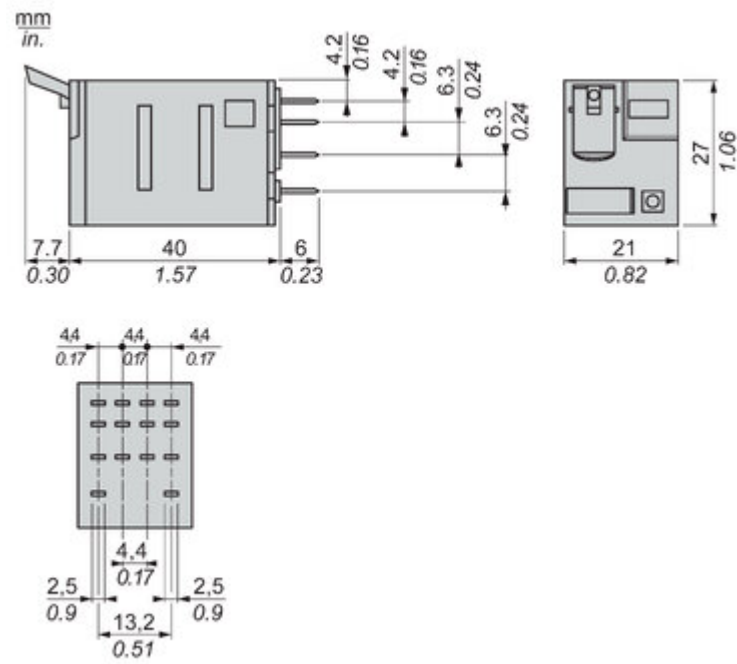


Image of product / Alternate images

Alternative



