Product data sheet

Specifications

miniature, Harmony Electromechanical Relays, 10A, 2CO, with LED, with lockable test button, mixed terminals socket, 230V AC

RXM2AB2P7PVM

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Harmony Electromechanical Relays
Series name	RXM series
Product or Component Type	Pre-assembled plug-in relay with socket
Relay Type	Miniature relay
Contacts type and composition	2 C/O
Status LED	With
Control Type	Lockable test button
[Uc] control circuit voltage	230 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	10 A
Continuous output current	10 A

Complementary

[Uimp] rated impulse withstand voltage	4 kV 1.2/50 µs
[Ie] rated operational current	6 A 28 V DC) NC IEC 6 A 250 V AC) NC IEC 10 A 28 V DC) NO UL 10 A 250 V AC) NO UL
minimum switching current	10 mA
Minimum switching voltage	17 V
Minimum switching capacity	170 mW 10 mA, 17 V
Electrical durability	100000 cycles resistive
Rated operational voltage limits	184...253 V AC
[Ui] rated insulation voltage	250 V IEC
Maximum switching voltage	250 V
Drop-out voltage threshold	>= 0.3 Uc AC
Load current	10 A 250 V AC 10 A 28 V DC
Operating time	20 ms
Maximum switching capacity	2500 VA AC 280 W DC
Average resistance	15000 Ohm 20 °C +/- 15 %
Average coil consumption	1.2 W, AC

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Mechanical durability	10000000 cycles
Safety reliability data	B10d = 100000
Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
Utilisation coefficient	20 %
CAD overall width	1.06 in (26.9 mm)
CAD overall height	3.1 in (79 mm)
CAD overall depth	3.09 in (78.45 mm)
Torque Value	8.9 lbf.in (1 N.m)
Reset time	20 ms
Contact terminal arrangement	Mixed
Connections - terminals	Connector, 1 x 0.25...1 x 2.5 mm² 22 AWG...14 AWG) flexible with cable end Connector, 2 x 0.25...2 x 1 mm² 22 AWG...17 AWG) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm² 20 AWG...14 AWG) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm² 20 AWG...16 AWG) solid without cable end
Dielectric strength	1300 V AC between contacts with micro disconnection 2000 V AC between coil and contact with basic insulation 2000 V AC between poles with basic insulation
Compatibility code	RXM
Protection category	RT I
Pollution degree	2
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Sale per indivisible quantity	30
Contacts material	AgNi
Shape of pin	Flat (faston type)
Product Weight	0.212 lb(US) (0.096 kg)

Environment

Ambient air temperature for operation	-40…131 °F (-40…55 °C)
IP degree of protection	IP20 conforming to IEC 60529
Standards	UL 508 IEC 61810-1 CSA C22.2 No 14 IEC 61984
Product Certifications	UL Lloyd's CE CSA GOST IECEE CB Scheme
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Vibration resistance	3 gn +/- 1 mm 10…150 Hz)5 cycles in operation 5 gn +/- 1 mm 10…150 Hz)5 cycles not operating
Shock resistance	10 gnin operation 30 gnnot operating

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3606489563172
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.110 in (7.900 cm)
Package 1 Width	1.059 in (2.690 cm)
Package 1 Length	3.089 in (7.845 cm)
Package weight(Lbs)	3.316 oz (94.000 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Height	3.937 in (10.000 cm)
Package 2 Width	9.843 in (25.000 cm)
Package 2 Length	11.811 in (30.000 cm)
Package 2 Weight	6.995 lb(US) (3.173 kg)
Unit Type of Package 3	S03
Number of Units in Package 3	60
Package 3 Height	11.811 in (30.000 cm)
Package 3 Width	11.811 in (30.000 cm)
Package 3 Length	15.748 in (40.000 cm)
Package 3 Weight	15.529 lb(US) (7.044 kg)

Contractual warranty

Warranty (in months)	18

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	**22 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**0.8 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**21 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0 kg CO2 eq.**
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	Compliant
REACh Regulation	Free of Substances of Very High Concern above the threshold
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 Longer

Lifetime extension

Repair	**No**

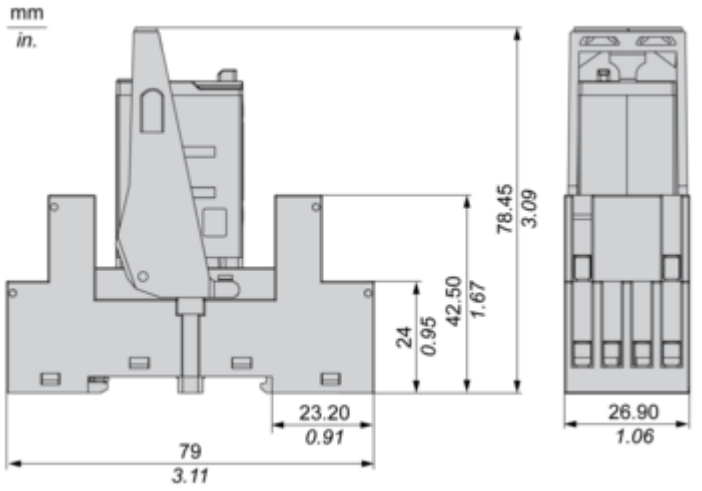
Use Again

Repack and remanufacture

Recyclability potential, in %	**55**
Circularity Profile	End of Life Information
Take-back	**No**

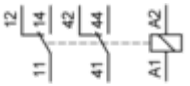
Dimensions Drawings

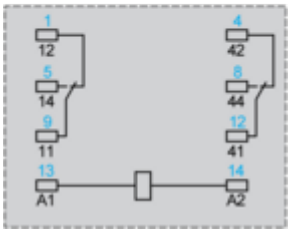
Dimensions



Connections and Schema

Wiring Diagram



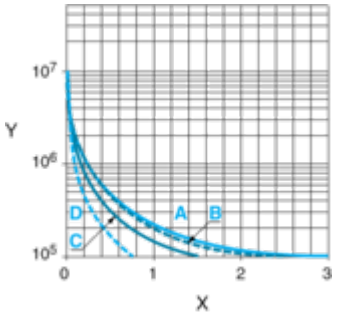


Symbols shown in blue correspond to Nema marking.

Performance Curves

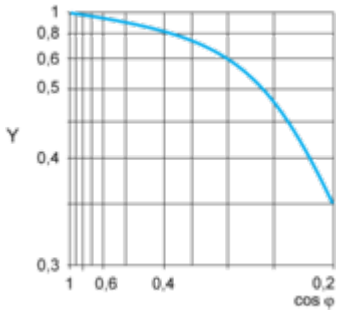
Electrical Durability of Contacts

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



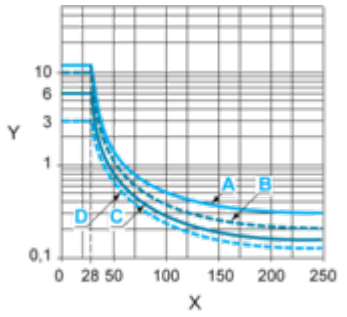
X Switching capacity (kVA)
Y Durability (Number of operating cycles)
A RXM2AB•••
B RXM3AB•••
C RXM4AB•••
D RXM4GB•••

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



Y Reduction coefficient (A)

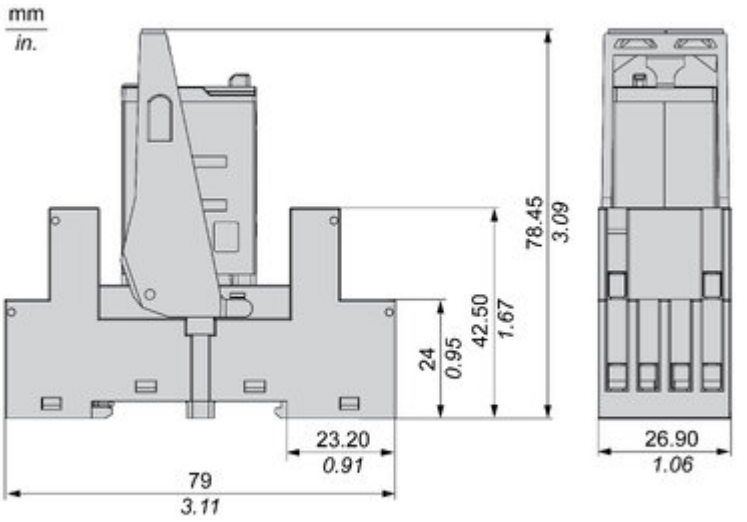
Maximum switching capacity on resistive DC load



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.
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-).
For low level loads (below 10mA), we recommend to use RXM*GB series with bifurcated contacts relays instead.

Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

Offer Marketing Illustration

Product benefits / Features

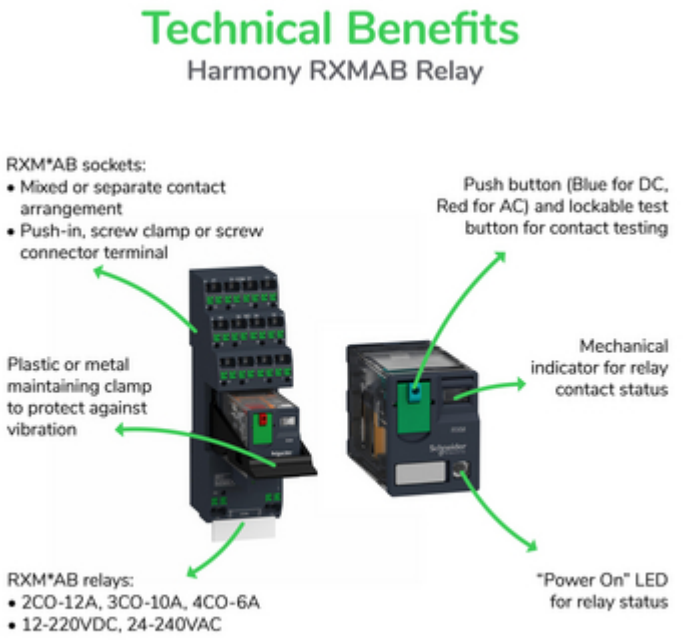
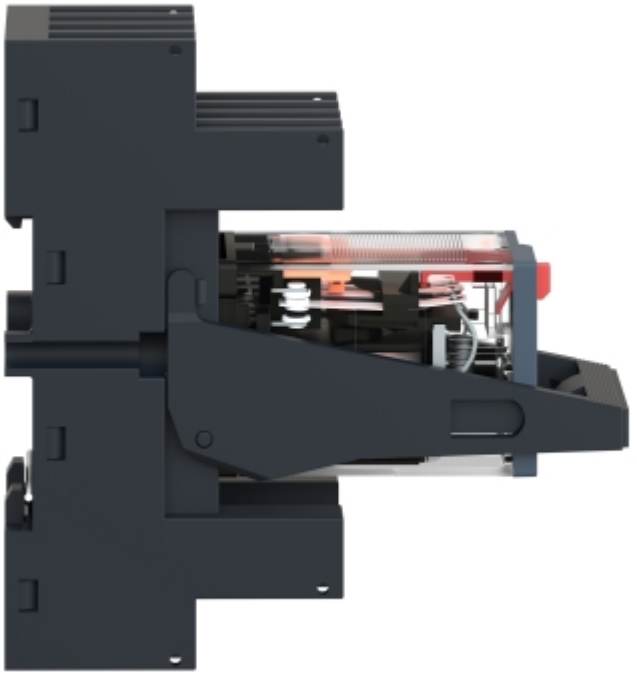
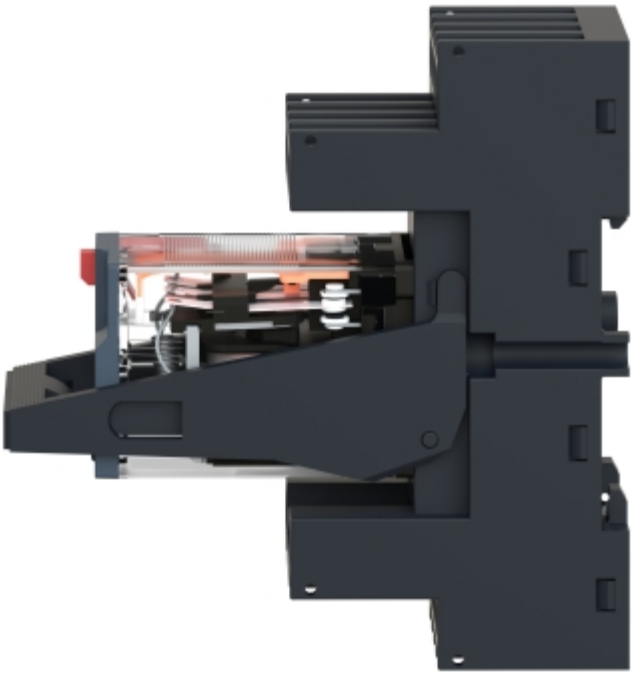
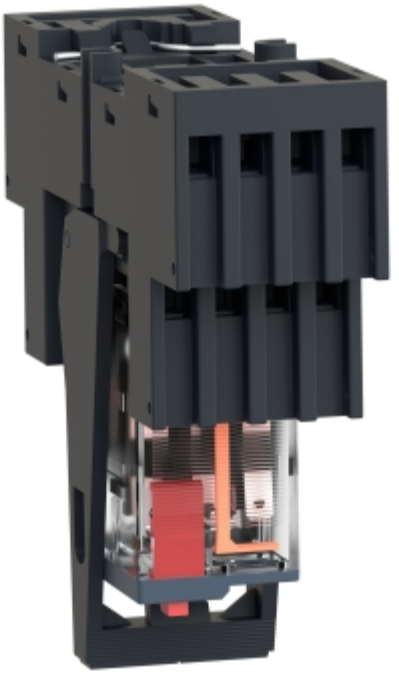


Image of product / Alternate images

Alternative





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NEMA :
RXM
Schneider
A2
A1
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