Product data sheet

Specifications

miniature pre assembled plug in relay with socket, Harmony Electromechanical Relays, 6A, 4CO, lockable test button, separate terminal, 24V DC

RXM4AB1BDPVS

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	4 C/O
status LED	Without
Control type	Lockable test button
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	6 A
Continuous output current	5 A

Complementary

[Uimp] rated impulse withstand voltage	2.5 kV during 1.2/50 µs
[Ie] rated operational current	3 A at 28 V (DC) NC conforming to IEC 3 A at 250 V (AC) NC conforming to IEC 6 A at 28 V (DC) NO conforming to IEC 6 A at 250 V (AC) NO conforming to IEC 6 A at 277 V (AC) conforming to UL 8 A at 30 V (DC) conforming to UL
minimum switching current	10 mA
Minimum switching voltage	17 V
Minimum switching capacity	170 mW at 10 mA, 17 V
Electrical durability	100000 cycles for resistive load
Rated operational voltage limits	19.2...26.4 V DC
[Ui] rated insulation voltage	250 V conforming to IEC
Maximum switching voltage	250 V
Drop-out voltage threshold	>= 0.1 Uc DC
Load current	6 A at 250 V AC 6 A at 28 V DC
Operating time	20 ms
Maximum switching capacity	1500 VA/168 W AC/DC
Average resistance	650 Ohm at 20 °C +/- 10 %
Average coil consumption	0.9 W, DC

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	26.9 mm
CAD overall height	82.8 mm
CAD overall depth	80.35 mm
torque value	1 N.m
reset time	20 ms
Contact terminal arrangement	Separate
Connections - terminals	Connector, 1 x 0.25...1 x 2.5 mm² (AWG 22...AWG 14) flexible with cable end Connector, 2 x 0.25...2 x 1 mm² (AWG 22...AWG 17) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm² (AWG 20...AWG 14) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm² (AWG 20...AWG 16) 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	0.105 kg

Environment

Ambient air temperature for operation	-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…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	2.700 cm
Package 1 Width	8.000 cm
Package 1 Length	8.500 cm
Package 1 Weight	101.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Height	10.000 cm
Package 2 Width	26.500 cm
Package 2 Length	30.000 cm
Package 2 Weight	3.403 kg
Unit Type of Package 3	S03
Number of Units in Package 3	60
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	7.619 kg

Contractual warranty

Warranty	18 Months

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	4
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)
REACh Regulation	REACh Declaration
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

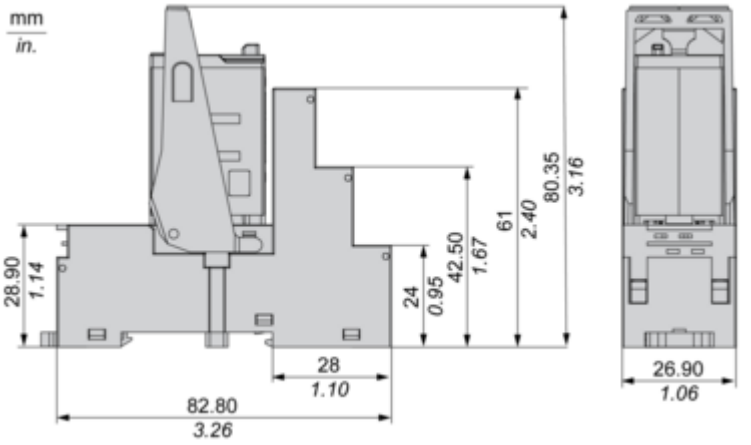
Use Again

Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	No

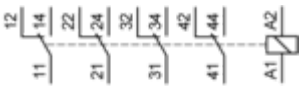
Dimensions Drawings

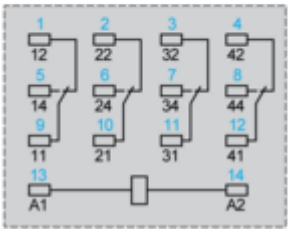
Dimensions



Connections and Schema

Wiring Diagram



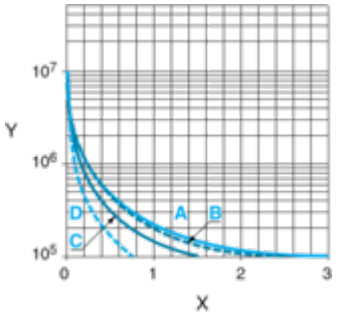


Symbols shown in blue correspond to Nema marking.

Performance Curves

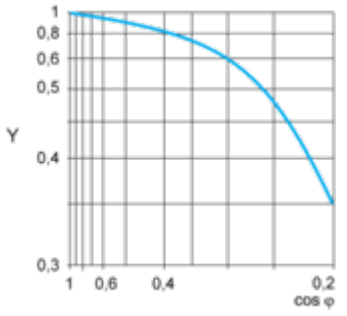
Electrical Durability of Contacts

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



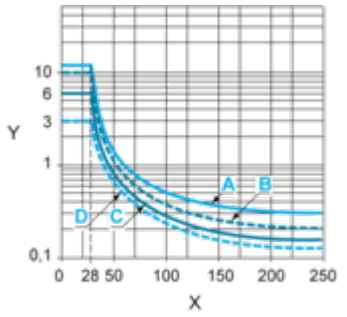
X Switching capacity (kVA)
Y Durability (Number of operating cycles)
A RXM2AB•••
B RXM3AB•••
C RXM4AB•••
D RXM4GB•••

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

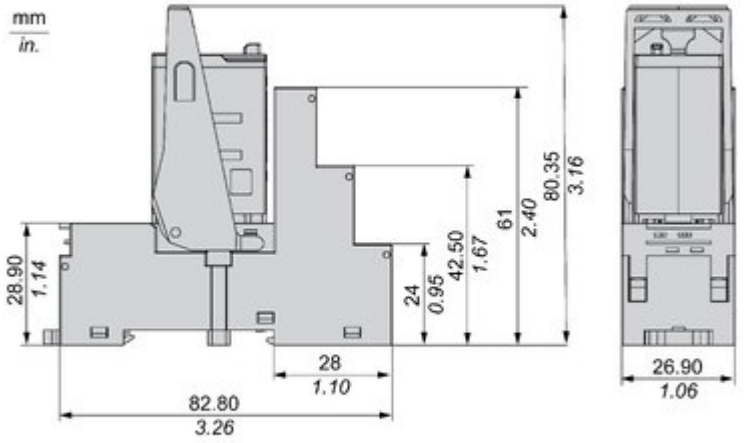


Image of product / Alternate images

Alternative