

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

RXM4AB2BDPVS

#### 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	With	
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**

Complementary		
[Uimp] rated impulse withstand voltage	2.5 kV during 1.2/50 μs	
[le] 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	19.226.4 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 0.251 x 2.5 mm² (AWG 22AWG 14) flexible with cable end Connector, 2 x 0.252 x 1 mm² (AWG 22AWG 17) flexible with cable end Connector, 1 x 0.51 x 2.5 mm² (AWG 20AWG 14) solid without cable end Connector, 2 x 0.52 x 1.5 mm² (AWG 20AWG 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	RTI	
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	-4055 °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	-4085 °C	
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles in operation 5 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles not operating	

# **Packing Units**

Shock resistance

10 gn for in operation 30 gn for not operating

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.500 cm
Package 1 Width	2.800 cm
Package 1 Length	8.500 cm
Package 1 Weight	104.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Height	10.000 cm
Package 2 Width	26.000 cm
Package 2 Length	29.500 cm
Package 2 Weight	3.465 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	7.647 kg

# **Contractual warranty**

Warranty 18 Months



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 >

<b>⊘</b> Environmental footprint	
Total lifecycle Carbon footprint	16
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

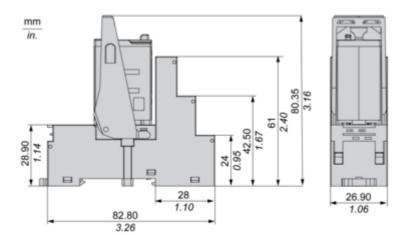
○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

## **Product data sheet**

## **RXM4AB2BDPVS**

### **Dimensions Drawings**

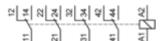
#### **Dimensions**

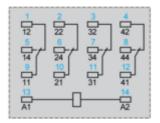


## RXM4AB2BDPVS

Connections and Schema

### Wiring Diagram





Symbols shown in blue correspond to Nema marking.

#### Product data sheet

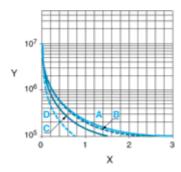
#### **RXM4AB2BDPVS**

#### 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)

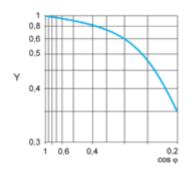
A RXM2AB\*\*\*

B RXM3AB\*\*\*

C RXM4AB\*\*\*

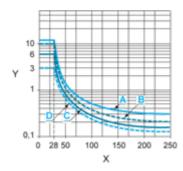
D RXM4GB•••

Reduction coefficient for inductive AC load (depending on power factor  $\cos \varphi$ )



#### 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.

# Product data sheet RXM4AB2BDPVS

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**Technical Illustration** 

#### **Dimensions**

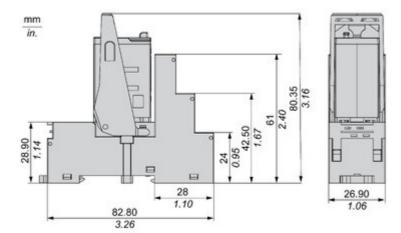


Image of product / Alternate images

#### **Alternative**











