## Product data sheet Characteristics

## RXM2AB2B7PVS

Harmony, Miniature plug-in relay preassembled, 12 A, 2 CO, with LED, with lockable test button, separate terminals socket, 24 V AC





#### Main

Range of product	Harmony Electromechanical Relays
Series name	Miniature
Product or component type	Pre-assembled plug-in relay with socket
Device short name	RXM
Contacts type and composition	2 C/O
[Uc] control circuit voltage	24 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	12 A at -4055 °C
Status LED	With
Control type	Lockable test button
Utilisation coefficient	20 %

#### Complementary

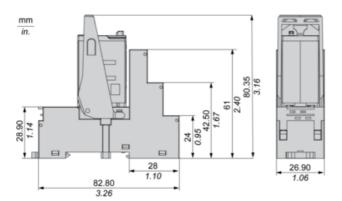
Complementary	
[Ui] rated insulation voltage	250 V conforming to IEC
[Uimp] rated impulse withstand voltage	4 kV during 1.2/50 μs
Contacts material	AgNi
[le] rated operational current	6 A at 28 V (DC) NC conforming to IEC 6 A at 250 V (AC) NC conforming to IEC 12 A at 28 V (DC) NO conforming to IEC 12 A at 250 V (AC) NO conforming to IEC
Minimum switching current	10 mA
Maximum switching voltage	250 V
Minimum switching voltage	17 V
Resistive rated load	12 A at 250 V AC 12 A at 28 V DC
Maximum switching capacity	3000 VA AC 336 W DC
Minimum switching capacity	170 mW at 10 mA, 17 V
Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles for resistive load
Average coil consumption in W	1.2 W, AC
Drop-out voltage threshold	>= 0.3 Uc AC
Operate time	20 ms
Release time	20 ms
Average coil resistance	180 Ohm at 20 °C +/- 10 %
Rated operational voltage limits	19.226.4 V AC
Safety reliability data	B10d = 100000
Protection category	RTI
Test levels	Level A group mounting
Operating position	Any position
Sale per indivisible quantity	30

UL CSA EAC Lloyd's  Standards  UL 508 EN/IEC 61810-1 CSA C22.2 No 14 IEC 61984  Ambient air temperature for storage 4085 °C  Ambient air temperature for operation 4055 °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 operation IP degree of protection IP20 conforming to EN/IEC 60529  Shock resistance 10 gn for in operation 3 gn for not operating Pollution degree 2  Packing Units  Package 1 Weight 92.800 mm  Package 1 Height 82.800 mm  Package 1 Length 80.350 mm  Offer Sustainability  Sustainable offer status Green Premium product  EREACh Regulation Freach SVHC Yes  Pro-active compliance (Product out of EU RoHS legal scope) Collectarion  Toxic heavy metal free Yes  Mercury free Yes  RoHS exemption information Product Environmental Profile  Environmental Disclosure	
Connections - terminals  Connector, 1 x 0.25 ± 1 x 2.5 mm² (AVIC 22AVIG 14) flexible will Connector, 1 x 0.25 ± 1 mm² (AVIC 22AVIG 14) flexible will Connector, 1 x 0.51 x 2.5 mm² (AVIC 22AVIG 17) flexible will Connector, 1 x 0.51 x 2.5 mm² (AVIC 22AVIG 14) flexible will Connector, 1 x 0.51 x 2.5 mm² (AVIC 20AVIG 16) solid with 1 N.M. 0.99 N.m. 0.	
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0.99 k.m 0.096 kg 0.	with cable end thout cable end
Device presentation  Complete product  Environment  Dielectric strength  1300 V AC between contacts with micro disconnection 2000 V AC between coil and contact 2000 V AC between poles  Product certifications  CE  UL  CSA  EAC  Lloyd's  Standards  UL,508  ENVIEC 61810-1  CSA C22.2 No 14  IEC 61904  Ambient air temperature for storage  Ambient air temperature for operation  -4055 °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 operation 9.0 gn for in operation 10 gn for in operation 10 gn for in operation 20 gn for not operating 10 gn for in operating 10 gn for not operation 10 gn for not operating 10 gn for not oper	
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	llowing specific
Contractual warranty	
Warranty 18 Months	

# Product data sheet Dimensions Drawings

# RXM2AB2B7PVS

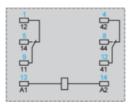
#### **Dimensions**



## Product data sheet Connections and Schema

## RXM2AB2B7PVS

### Wiring Diagram

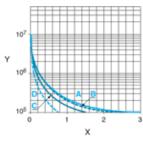


Symbols shown in blue correspond to Nema marking.

#### **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)

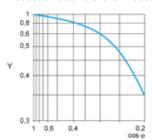
A RXM2AB•••

B RXM3AB•••

C RXM4AB•••

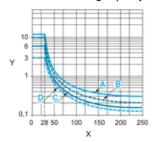
D RXM4GB•••

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



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.