Product data sheet

Specifications





miniature plug in relay, Harmony Electromechanical Relays, 10A, 3CO, with LED, lockable test but to n, 120V AC

RXM3AB2F7

Product availability: Stock - Normally stocked in distribution facility

Price*: 8.05 USD

Main

Range of Product	Harmony Electromechanical Relays
Series name	Miniature
Product or Component Type	Plug-in relay
Device short name	RXM
Contacts type and composition	3 C/O
[Uc] control circuit voltage	120 V AC 50/60 Hz
Status LED	With
Control Type	Lockable test button
Utilisation coefficient	20 %

Complementary

Shape of pin	Flat
[Ui] rated insulation voltage	250 V IEC
	300 V CSA
	300 V UL
[Uimp] rated impulse withstand voltage	4 kV 1.2/50 μs
Contacts material	AgNi
[le] rated operational current	10 A 28 V DC) NO IEC
	10 A 250 V AC) NO IEC
	5 A 28 V DC) NC IEC
	5 A 250 V AC) NC IEC
	10 A 30 V DC) UL
	10 A 277 V AC) UL
Continuous output current	6.7 A
Maximum switching voltage	250 V IEC
resistive rated load	10 A 250 V AC
	10 A 28 V DC
Maximum switching capacity	2500 VA/280 W
Minimum switching capacity	170 mW 10 mA, 17 V
Operating rate	<= 1200 cycles/hour under load
	<= 18000 cycles/hour no-load
Mechanical durability	1000000 cycles
Electrical durability	100000 cycles resistive

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

average coil consumption in VA	1.2 60 Hz
Average consumption	1.2 VA 60 Hz
Drop-out voltage threshold	>= 0.15 Uc
operate time	20 ms
release time	20 ms
average coil resistance	4430 Ohm 20 °C +/- 15 %
Rated operational voltage limits	96132 V AC
Safety reliability data	B10d = 100000
Protection category	RT I
Test levels	Level A group mounting
Operating position	Any position
CAD overall height	3.1 in (79 mm)
CAD overall depth	3.09 in (78.45 mm)
Net Weight	0.082 lb(US) (0.037 kg)
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	UL
	Lloyd's
	CE
	CSA
	GOST
	IECEE CB Scheme
Standards	UL 508
	IEC 61810-1
	CSA C22.2 No 14
Ambient Air Temperature for Storage	-40.00000000185.000000000 °F (-4085 °C)
Ambient air temperature for operation	-40.00000000131.000000000 °F (-4055 °C)
Vibration resistance	3 gn +/- 1 mm 10150 Hz)5 cycles in operation
	5 gn +/- 1 mm 10150 Hz)5 cycles not operating
IP degree of protection	IP40 conforming to IEC 60529
Shock resistance	10 gnin operation
	30 gnnot operating
Pollution degree	2

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3389119403665
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1

PCE

Number of Units in Package 1	1
Package 1 Height	0.984 in (2.500 cm)
Package 1 Width	1.181 in (3.000 cm)
Package 1 Length	1.772 in (4.500 cm)
Package 1 Weight	1.305 oz (37.000 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.181 in (3.000 cm)
Package 2 Width	4.134 in (10.500 cm)
Package 2 Length	4.921 in (12.500 cm)
Package 2 Weight	13.968 oz (396.000 g)
Unit Type of Package 3	S02
Number of Units in Package 3	240
Package 3 Height	5.906 in (15.000 cm)
Package 3 Width	11.811 in (30.000 cm)
Package 3 Length	15.748 in (40.000 cm)
Package 3 Weight	21.497 lb(US) (9.751 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc

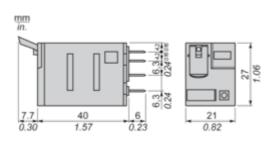
Rohs Exemption Information Yes

Certifications & Standards

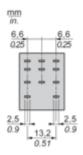
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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

Dimensions Drawings

Dimensions



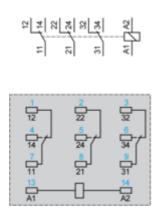
Pin Side View



Product data sheet

Connections and Schema

Wiring Diagram



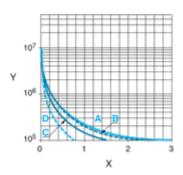
Symbols shown in blue correspond to Nema marking.

Product data sheet

Performance Curves

Electrical Durability of Contacts

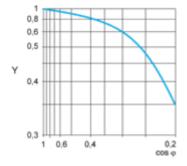
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

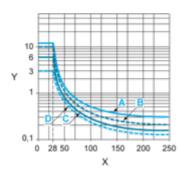
- **Y** Durability (Number of operating cycles)
- A RXM2AB ····
- B RXM3AB ····
- C RXM4AB•••
- D RXM4GB····

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

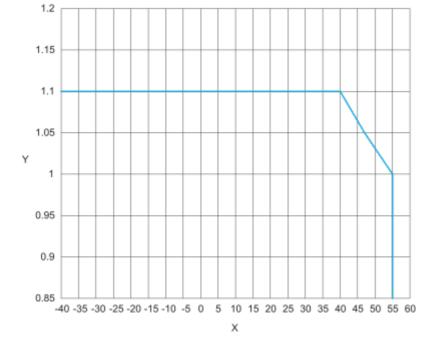
- Y Current DC
- A RXM2AB····
- B RXM3AB•••
- C RXM4AB•••
- D RXM4GB•••

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.

Life Is On Schneider



AC Coil Voltage and Operating Temperature under continuous duty

- **X** : Operating temperature (°C)
- Y: AC coil voltage (UC)