Product data sheet

Specifications

Harmony, Miniature plug-in relay, 10 A, 3 CO, LED, 48 V DC

RXM3AB2ED

Discontinued on: 02 December 2020

End-of-service on: 31 December 2020

Discontinued

Main

Range of Product	Harmony Relay
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	48 V DC
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
[Ie] 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	10000000 cycles

Electrical durability	100000 cycles resistive
Average coil consumption	0.9 W
Drop-out voltage threshold	>= 0.1 Uc
Operate time	20 ms
Release time	20 ms
Average coil resistance	2560 Ohm 20 °C +/- 10 %
Rated operational voltage limits	38.4...52.8 V DC
Safety reliability data	B10d = 100000
Protection category	RT I
Test levels	Level A group mounting
Operating position	Any position
CAD overall height	3.26 in (82.8 mm)
CAD overall depth	3.16 in (80.35 mm)
Net Weight	0.08 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	GOST CE Lloyd's CSA UL
Standards	CSA C22.2 No 14 UL 508 EN/IEC 61810-1
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Ambient air temperature for operation	-40…131 °F (-40…55 °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
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	10 gnin operation 30 gnnot operating
Pollution degree	2

Ordering and shipping details

Category	21127-ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	00785901511465
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

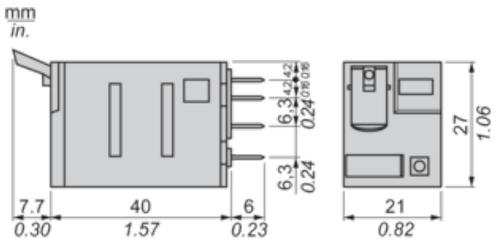
Offer Sustainability

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
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
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
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

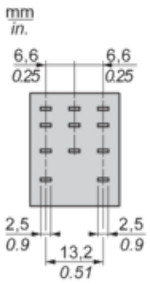
Contractual warranty

Warranty	18 months

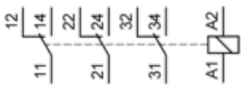
Dimensions

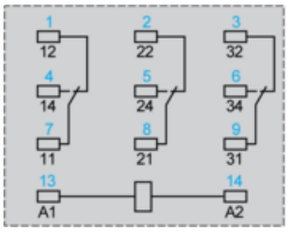


Pin Side View



Wiring Diagram



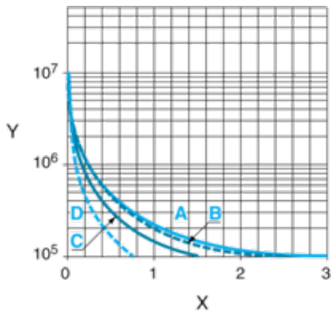


Symbols shown in blue correspond to Nema marking.

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)

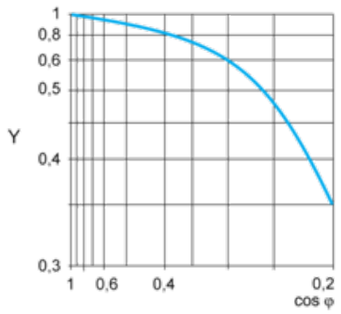
A RXM2AB•••

B RXM3AB•••

C RXM4AB•••

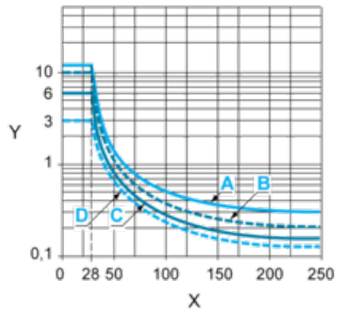
D RXM4GB•••

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

Recommended replacement(s)

RXM3AB2ED is replaced by the following product range:

Harmony Electromechanical Relays

Slim Interface, Miniature, Power, and Universal Relays

Products: 460