

# RXM4GB1BD

miniature plug-in relay - Zelio RXM - 4 C/O - 24 V DC - 3 A



## Main

|                                              |                    |
|----------------------------------------------|--------------------|
| Range of product                             | Zelio Relay        |
| Series name                                  | Miniature          |
| Product or component type                    | Plug-in relay      |
| Device short name                            | RXM                |
| Contacts type and composition                | 4 C/O              |
| Contacts operation                           | Low level          |
| Control circuit voltage                      | 24 V DC            |
| [Ithe] conventional enclosed thermal current | 3 A at -40...55 °C |
| Status LED                                   | Without            |
| Control type                                 | Pushbutton         |
| Coil interference suppression                | Without            |
| Utilisation coefficient                      | 20 %               |
| Sale per indivisible quantity                | 10                 |

## Complementary

|                                        |                                                                                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Shape of pin                           | Flat                                                                                                                                         |
| [Ui] rated insulation voltage          | 300 V conforming to UL<br>300 V conforming to CSA<br>250 V conforming to IEC                                                                 |
| [Uimp] rated impulse withstand voltage | 2.5 kV 1.2/50 µs IEC 61000-4-5                                                                                                               |
| Contacts material                      | Silver gold plated contact                                                                                                                   |
| [Ie] rated operational current         | 1 A (AC-1/DC-1) NC conforming to IEC<br>3 A (AC-1/DC-1) conforming to UL<br>2 A (AC-1/DC-1) NO conforming to IEC                             |
| Minimum switching current              | 3 mA                                                                                                                                         |
| Maximum switching voltage              | 250 V DC<br>250 V AC conforming to IEC                                                                                                       |
| Minimum switching voltage              | 17 V                                                                                                                                         |
| Resistive rated load                   | 3 A at 28 V DC<br>3 A at 250 V AC                                                                                                            |
| Maximum switching capacity             | 84 W, DC circuit<br>750 VA, AC circuit                                                                                                       |
| Minimum switching capacity             | 15 mW                                                                                                                                        |
| Operating rate                         | <= 18000 cycles/hour no-load<br><= 1200 cycles/hour under load                                                                               |
| Mechanical durability                  | 10000000 cycles                                                                                                                              |
| Electrical durability                  | 100000 cycles for resistive load                                                                                                             |
| Average consumption in W               | 1.1 W, DC circuit                                                                                                                            |
| Drop-out voltage threshold             | >= 0.1 Uc DC                                                                                                                                 |
| Operating time                         | 20 ms between coil energisation and making of the On-delay contact<br>20 ms between coil de-energisation and making of the Off-delay contact |
| Average resistance                     | 650 Ohm, DC circuit at 20 °C +/- 10 %                                                                                                        |
| Rated operational voltage limits       | 19.2...26.4 V DC                                                                                                                             |
| Protection category                    | RT I                                                                                                                                         |
| Operating position                     | Any position                                                                                                                                 |
| CAD overall width                      | 21 mm                                                                                                                                        |

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|                    |          |
|--------------------|----------|
| CAD overall height | 27 mm    |
| CAD overall depth  | 55 mm    |
| Product weight     | 0.037 kg |

## Environment

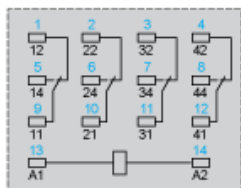
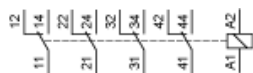
|                                       |                                                                                                                                                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric strength                   | 2000 V AC (between poles)<br>2000 V AC (between coil and contact)<br>1300 V AC (between contacts)                                                                                                                 |
| Product certifications                | CSA<br>GOST<br>Lloyds<br>UL                                                                                                                                                                                       |
| Standards                             | EN/IEC 61810-1<br>UL 508<br>CSA C22.2 No 14                                                                                                                                                                       |
| Ambient air temperature for storage   | -40...85 °C                                                                                                                                                                                                       |
| Ambient air temperature for operation | -40...55 °C                                                                                                                                                                                                       |
| Vibration resistance                  | 5 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 10 cycles not operating) conforming to EN/IEC 60068-2-27<br>3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 10 cycles in operation) conforming to EN/IEC 60068-2-27 |
| IP degree of protection               | IP40 conforming to EN/IEC 60529                                                                                                                                                                                   |
| Shock resistance                      | 30 gn for 11 ms not operating conforming to EN/IEC 60068-2-27<br>10 gn for 11 ms in operation conforming to EN/IEC 60068-2-27                                                                                     |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|

[illegible]

## 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.