

## RXM3AB2P7

Miniature Plug-in relay - Zelio RXM 3 C/O 230 V AC  
10 A with LED



### Main

|                                              |                      |
|----------------------------------------------|----------------------|
| Range of product                             | Zelio 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                 | 230 V AC, 50/60 Hz   |
| [Ithe] conventional enclosed thermal current | 10 A at -40...55 °C  |
| Status LED                                   | With                 |
| Control type                                 | Lockable test button |
| Utilisation coefficient                      | 20 %                 |

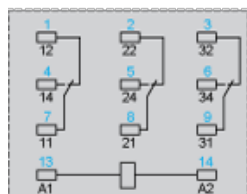
### Complementary

|                                        |                                                                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shape of pin                           | Flat                                                                                                                                                                                                                                          |
| [Ui] rated insulation voltage          | 250 V conforming to IEC<br>300 V conforming to UL<br>300 V conforming to CSA                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage | 4 kV for 1.2/50 µs                                                                                                                                                                                                                            |
| Contacts material                      | AgNi                                                                                                                                                                                                                                          |
| [Ie] rated operational current         | 10 A at 28 V DC (NO) conforming to IEC<br>10 A at 250 V AC (NO) conforming to IEC<br>5 A at 28 V DC (NC) conforming to IEC<br>5 A at 250 V AC (NC) conforming to IEC<br>10 A at 30 V DC conforming to UL<br>10 A at 277 V AC conforming to UL |
| Maximum switching voltage              | 250 V conforming to IEC                                                                                                                                                                                                                       |
| Load current                           | 10 A at 250 V AC<br>10 A at 28 V DC                                                                                                                                                                                                           |
| Maximum switching capacity             | 2500 VA/280 W                                                                                                                                                                                                                                 |
| Minimum switching capacity             | 170 mW at 10 mA, 17 V                                                                                                                                                                                                                         |
| 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 coil consumption in VA         | 1.2 at 60 Hz                                                                                                                                                                                                                                  |
| Average consumption                    | 1.2 VA 60 Hz                                                                                                                                                                                                                                  |
| Drop-out voltage threshold             | >= 0.15 Uc                                                                                                                                                                                                                                    |
| Operating time                         | 20 ms                                                                                                                                                                                                                                         |
| Reset time                             | 20 ms                                                                                                                                                                                                                                         |
| Average resistance                     | 15000 Ohm at 20 °C +/- 15 %                                                                                                                                                                                                                   |
| Rated operational voltage limits       | 184...253 V AC                                                                                                                                                                                                                                |
| Safety reliability data                | B10d = 100000                                                                                                                                                                                                                                 |
| Protection category                    | RT I                                                                                                                                                                                                                                          |
| Operating position                     | Any position                                                                                                                                                                                                                                  |
| CAD overall height                     | 82.8 mm                                                                                                                                                                                                                                       |
| CAD overall depth                      | 80.35 mm                                                                                                                                                                                                                                      |
| Torque value                           | 0.8 N.m                                                                                                                                                                                                                                       |
| Product weight                         | 0.096 kg                                                                                                                                                                                                                                      |
| Device presentation                    | Complete product                                                                                                                                                                                                                              |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| Environment                           |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dielectric strength                   | 1300 V AC between contacts with micro disconnection insulation<br>2000 V AC between coil and contact with reinforced insulation<br>2000 V AC between poles with basic insulation |
| product certifications                | CE<br>CSA<br>GOST<br>RoHS<br>UL<br>REACH<br>Lloyd's                                                                                                                              |
| 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                  | 3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles in operation)<br>5 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles not operating)                                  |
| IP degree of protection               | IP40 conforming to EN/IEC 60529                                                                                                                                                  |
| shock resistance                      | 10 gn in operation<br>30 gn not operating                                                                                                                                        |
| pollution degree                      | 2                                                                                                                                                                                |

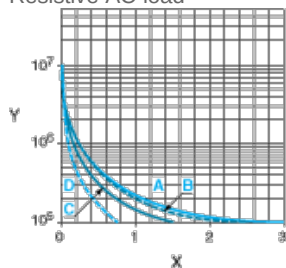
The technical drawing shows two views of the M10-1000 module. The left view is a side profile showing a rectangular body with a mounting flange on the left and four pins on the right. Dimensions include a total width of 7.7 (0.30), a central section width of 40 (1.57), a pin pitch of 6 (0.23), and individual pin widths of 6.3 (0.24) and 6.2 (0.24). A small dimension of 0.9 is also indicated. The right view is a top-down perspective showing the module's footprint with a width of 21 (0.82) and a height of 27 (1.06).



## 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)

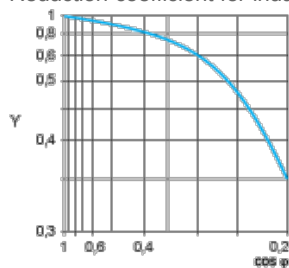
A RXM2AB...

B RXM3AB...

C RXM4AB...

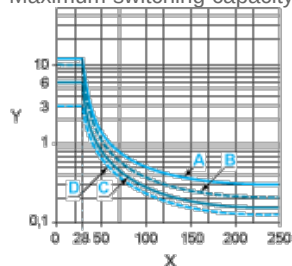
D RXM4GB...

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.