Catalog | March 2020

# Zelio Electromechanical Relays

## Interface, miniature and power electromechanical relays

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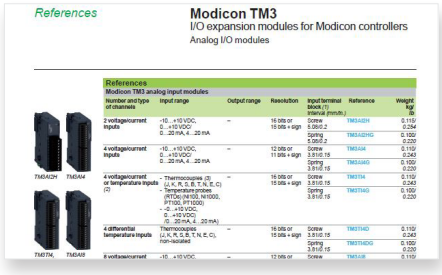


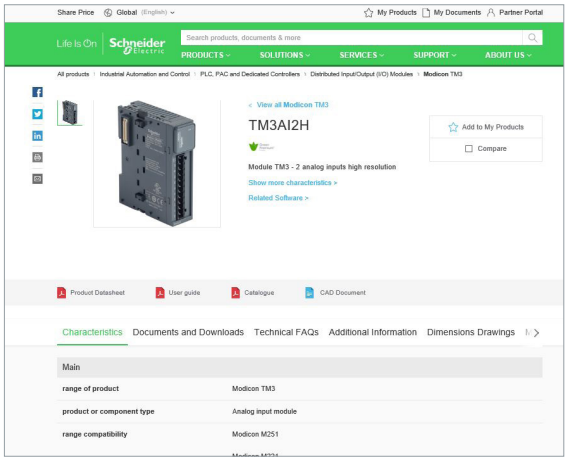


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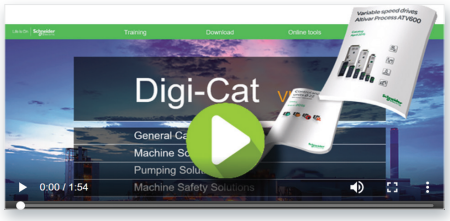


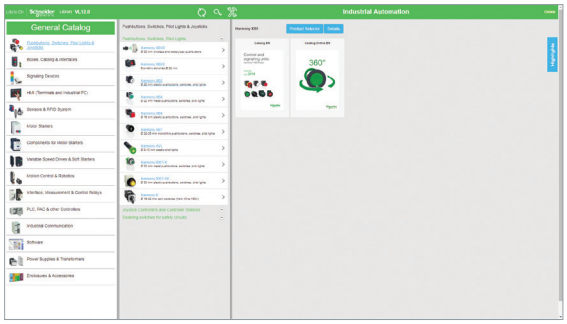


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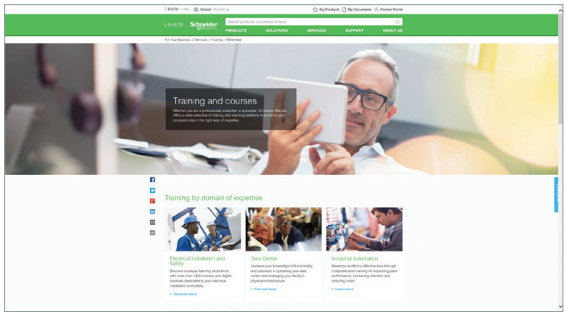


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# General contents

## Contents

# General presentation and selection guide



### Zelio Electromechanical Relays

# Zelio Electromechanical Relays
RSL slim and RXG interface relays

1

## Zelio Relay - Electromechanical Relays
***Used to multiply the number of input and output contacts, or for logic processing control***

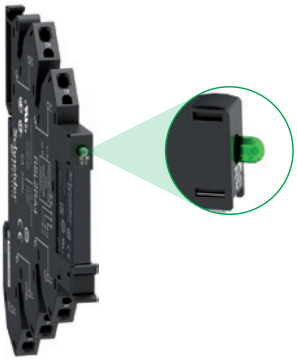
**RSL relays are compact modular relays conforming to IEC/EN 61810-1, UL508, CSA C22.2 No. 14, and EAC international standards.**

Zelio Relays offer interface, miniature, universal, and power electromenchanical relays, from 1 CO to 4 CO contacts, up to 30 A. The electromechanical relays help to reduce the size of enclosures and at the same time increase machine reliability.

## RSL relays for compactness

### Flexible offer
- Available as a single-referenced complete product (relay and socket) or customer-assembled product
- Wide choice of sockets ranging from 12 to 230 V ∿
- Standard and low level contact types

### Enhanced performance
- Sockets with integrated reverse polarity protection circuit
- Relays for high breaking capacity or low-level current application requirements
- Power-on and Relay status LED indicator



*LED indicator for RSL relay status*

*Screw connector*

*Spring terminal*

### Simple installation and cabling
- Locking/unlocking lever for removing and replacing the relay in the socket
- Simple DIN rail mounting and commoning link accessory
- Choice of screw connector or spring terminal connection for sockets

## RXG relays for reliability

### Complete offer
RXG relays offer a broad range of coil voltages, from 6 V to 110 V ⎓ and 24 V to 230 V ∿. The relays are available with/without lockable test button, LED, and clear cover.

### Easy to mount and use
These are the latest relays with a single-step lockable test button. The Faston pin terminal mounts quickly and securely. The slim 16 mm/*0.629 in.* socket for 2 CO saves panel space.

*Single-step lockable test button*

## Zelio Relay RXG ➜ Latest interface relay with easy testing function

# Zelio Electromechanical Relays
RXG interface and RXM miniature relays



## RXG relays for reliability (continued)

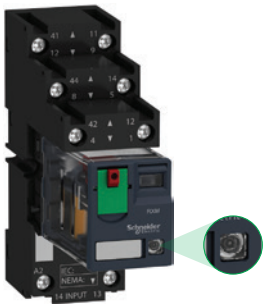
### Expandable relays
RXG relays can be expanded with protection modules such as diode, diode with LED, varistor with LED, and RC circuit.

**RXM relays industrial relays bring features for easy and improved control of simple and complex automation systems.**

## RXM relays for automation control

### Easy to select
- Wider choice of contacts (2, 3, and 4 CO)
- Broad range of control circuit voltages and different socket types
- Configurator available in Apple App and Android Play Store

### Convenient to use
- One-step lockable test button
- Mechanical indicator for contact status
- “Power On” LED for readiness



*LED indicator for relay status*

*Push and stay spring clamp terminal: insert without tool*

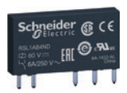
### Simple to install
- Push and stay spring clamp socket wiring (no screwdriver required) provides **up to 65% time saving**
- Sockets for both DIN rail and panel mounting, time-saving bus jumper
- Direct mounting with DIN rail or flange adapter

### Designed to perform
- Eco-design with RoHS and REACH
- Flexible add-on protection modules
- Spring clamp socket with 20 kg/*44 lb* wire pull-out force and reliable retention force on cables

## Zelio Relay RXM → Miniature in size and powerful in performance

# Zelio Electromechanical relays
## Plug-in relays and relays with clamp fixing



| | | | |
|---|---|---|---|
| **Type of product** | | **Plug-in relays** | |
| | | **Slim interface relays** | |
| | |  | |
| **Number and type of contacts/conventional thermal current (Ith on NO contact)** | | 1 CO / 6 A | |
| **Control circuit voltage** | ∼ | - | |
| | ⎓ | 12…60 V | |
| **Pin type** | | Flat (PCB type, reinforced) | |
| **Operational voltage** | | Up to 400 V ∼/300 V ⎓ | |
| **Durability** (operating cycles per hour) | Electrical, resistive load | 60,000 | |
| | Mechanical, no-load | 10,000,000 | |
| **Functions** | LED | No | |
| | Mechanical indicator | No | |
| | Lockable test button | No | |
| | Contact type | Standard and low level | |
| **Type references** | | **RSL1●B4●D** *(1)* | |
| **Pages** | | 2/3 | |
| **Type of associated sockets** | | **Sockets with LED and protection circuit** | |
| | |  |  |
| **Contact terminal arrangements** | | Separate | |
| **Connection** | | Screw connector | Spring terminals |
| **Accessories** | Protection modules | No | No |
| | Timer module | No | No |
| | Maintaining clamps | No | No |
| | Socket identification legend | Yes | Yes |
| | Mounting adapters for DIN rail | No | No |
| | Mounting adapters with fixing lugs | No | No |
| | Bus jumper | Yes, 20-pole | Yes, 20-pole |
| **Conventional thermal current** (Ith) | | 6 A | 6 A |
| **Type references** | | **RSLZV●●** | **RSLZR●●** |
| **Pages** | | 2/3 | |

*(1) Pre-assembled interface relays RSL1PV●● and RSL1PR●● (standard type relay + socket), RSB (relay + socket + clamp + protection module + label), and RXG (relay + socket + protection module) are also available.*





| | | | |
|---|---|---|---|
| | | **Plug-in relays** | |
| | | **Interface relays** | |
| | |  |  |
| **Number and type of contacts/conventional thermal current (Ith on NO contact)** | | 1 CO / 16 A<br>1 CO / 12 A<br>2 CO / 8 A | 1 CO / 10 A<br>2 CO / 5 A |
| **Control circuit voltage** | ∼ | 24…240 V | 24…230 V |
| | ⎓ | 6…110 V | 6…110 V |
| **Pin type** | | Flat (PCB type) | Flat (Faston type) |
| **Operational voltage** | | Up to 400 V ∼/300 V ⎓ | Up to 250 V ∼/⎓ |
| **Durability** (operating cycles per hour) | Electrical, resistive load | 100,000 | 100,000 |
| | Mechanical, no-load | 30,000,000 | 10,000,000 for AC coil<br>10,000,000 for DC coil |
| **Functions** | LED | Yes (with protection modules) | Yes (depending on version) |
| | Mechanical indicator | No | Yes (depending on version) |
| | Lockable test button | No | Yes (depending on version) |
| | Contact type | Standard | Standard |
| **Type references** | | **RSB●●●●●●● *(1)*** | **RXG●●●● *(1)*** |
| **Pages** | | 2/5 | 2/9 |
| | | **Sockets without LED** | **Sockets** |
| | |  | |
| **Contact terminal arrangements** | | Separate | Separate |
| **Connection** | | Screw connector / Push-in terminals | Screw connector / Push-in terminals |
| **Accessories** | Protection modules | Yes / Yes | Yes / Yes |
| | Timer module | No / No | No / No |
| | Maintaining clamps | Yes / Yes (plastic, integrated) | Yes (plastic, integrated) / Yes (plastic, integrated) |
| | Socket identification legend | Yes / Yes | Yes / Yes |
| | Mounting adapters for DIN rail | No / No | No / No |
| | Mounting adapters with fixing lugs | No / No | No / No |
| | Bus jumper | Yes / Yes, 2-pole | Yes / Yes, 2-pole |
| **Conventional thermal current** (Ith) | | 12 A / (2 terminals) × 10 A *(2)* / 12 A / 10 A | 10 A for 1 CO / 5 A for 2 CO / 10 A / 5 A |
| **Type references** | | **RSZE1S35M / RSZE1S48M / RSZE05P / RSZE08P** | **RGZE1S35M / RGZE1S48M / RGZE05P / RGZE08P** |
| **Pages** | | 2/5 | 2/10 |

*(2) When using relay RSB1A160●● with socket RSZE1S48M, terminals must be linked.*

# Zelio Electromechanical Relays
## Plug-in relays and relays with clamp fixing



| Type of product | Plug-in relays | | | |
|---|---|---|---|---|
| | Miniature relays | | | |
| |  | |  | |
| Number and type of contacts/conventional thermal current (Ith on NO contact) | 2 CO / 12 A<br>3 CO / 10 A<br>4 CO / 6 A<br>4 CO / 3 A (low level) | | | |
| Control circuit voltage ~ | 24…240 V | | | |
| Control circuit voltage ⎓ | 12…220 V | | | |
| Pin type | Flat (Faston type) | | | |
| Operational voltage | Up to 250 V ~/⎓ | | | |
| Durability (operating cycles per hour) Electrical, resistive load | 100,000 | | | |
| Durability (operating cycles per hour) Mechanical, no-load | 10,000,000 | | | |
| Functions LED | Yes (depending on version) | | | |
| Functions Mechanical indicator | Yes | | | |
| Functions Lockable test button | Yes | | | |
| Functions Contact type | Low level (depending on version) | | | |
| Type references | RXM●●●●●● *(1)* | | | |
| Pages | 2/13 | | | |
| Type of associated sockets | Sockets without LED | | | |
| |  |  |  |  |
| Contact terminal arrangements | Mixed | | Separate | |
| Connection | Screw connector | Screw clamp terminals | Screw connector | Push-in terminals |
| Accessories: Protection modules | Yes | | Yes | Yes |
| Accessories: Timer module | No | | No | No |
| Accessories: Maintaining clamps | Yes | | Yes | Yes (plastic, integrated) |
| Accessories: Socket identification legend | Yes | No | Yes | Yes |
| Accessories: Mounting adapters for DIN rail | Yes | | Yes | Yes |
| Accessories: Mounting adapters with fixing lugs | Yes | | Yes | Yes |
| Accessories: Bus jumper | No | | Yes, 2-pole (Ith = 5 A) | Yes, 2-pole |
| Conventional thermal current (Ith) | 10 A | 10 A | 12 A for 2 CO *(2)*<br>6 A for 4 CO | 12 A for 2 CO<br>6 A for 4 CO |
| Type references | RXZE2M114M | RXZE2M114 | RXZE2S●●●M | RXZE14P |
| Pages | 2/15 | | | |

*(1) Pre-assembled miniature relays RXM (relay + socket + clamp + label) are also available.*
*(2) Except for sockets RXZE2S11●M: 10 A.*





| Plug-in relays | | | Relays with clamp fixing |
|---|---|---|---|
| Power relays | Universal relays | | Power relays |
|  |  |   |  |
| 1 CO / 15 A<br>2 CO / 15 A<br>3 CO / 15 A<br>4 CO / 15 A | 2 CO / 10 A<br>3 CO / 10 A | 2 CO / 10 A<br>3 CO / 10 A | 2 NO / 30 A *(4)*<br>2 CO / 30 A *(4)* |
| | 24…230 V | | |
| 12…110 V | 12…220 V | 12…110 V | 12…24 V |
| Flat (Faston type) | Cylindrical | Flat (Faston type) | Flat (Faston type) |
| Up to 250 V ~/⎓ | Up to 250 V ~/⎓ | | Up to 250 V ~/⎓ |
| 100,000 *(3)* | 100,000 | | 100,000 |
| 10,000,000 | 5,000,000 | | 5,000,000 |
| Yes (depending on version) | Yes (depending on version) | | – |
| Yes | Yes | | – |
| Yes | Yes | | |
| Standard | Low level (depending on version) | Standard | – |
| RPM●●●● | RUM●●●●● | | RPF●●●● |
| 2/23 | 2/19 | | 2/27 |
| Sockets without LED | Sockets without LED | | |
|  |  |   | |
| Mixed | Mixed | Separate | – |
| Screw clamp terminals | Screw connector | | – |
| Yes | Yes | | – |
| Yes (for 3- and 4-pole) | Yes | | – |
| Yes (on socket RPZF1) | Yes | | – |
| Yes | Yes | | – |
| Yes | No | | – |
| Yes | No | | – |
| No | No | Yes, 2-pole (Ith = 5 A) | – |
| 16 A | 12 A | | – |
| RPZF● | RUZC●M | RUZSC●M | RUZSF3M | – |
| 2/24 | 2/19 | | | – |

*(3) 100,000 for RPM1 and RPM2; 60,000 for RPM3 and RPM4.*
*(4) 30 A when mounted with 13 mm (0.51 in.) gap between two relays and 25 A when mounted side by side without a gap.*

Contents

# Plug-in relays and relays with clamp fixing

2

# Plug-in relays and relays with clamp fixing

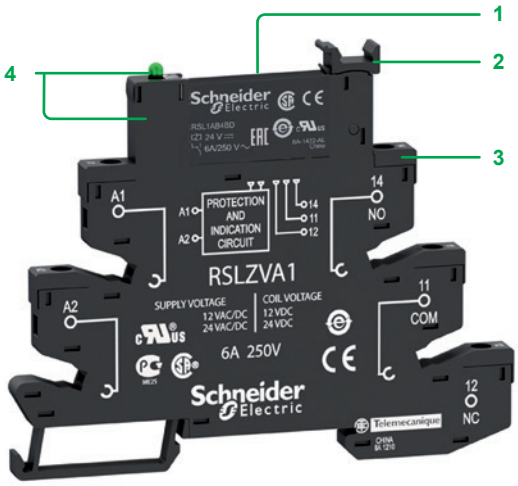
# Zelio Electromechanical Relays
## Plug-in relays
## RSL slim interface relays



### Presentation of the range

**RSL** slim interface relays offer the advantages of compact size and modular design. Their slim width (6 mm/*0.236 in.*) saves space when mounting on a DIN rail at the back of an enclosure.

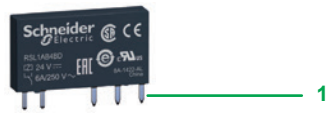
**RSL** relays are available as:
■ **Pre-assembled offer**: a single reference comprising a standard relay mounted on its socket.
□ The socket includes a protection circuit (against reverse polarity and surge) and an LED indicator as standard.
□ 2 types of connector are available for wire connection: screw connectors or spring terminals.
□ This pre-assembled solution covers a wide range of operating voltages from 12 to 230 V.
■ **Customer assembly offer**:
□ The relay (standard or low level) and the socket are selected, as required, according to the operating voltage of the application.
□ For maintenance, an **RSL** slim relay can be replaced without disconnecting the socket wiring.




### Relay description

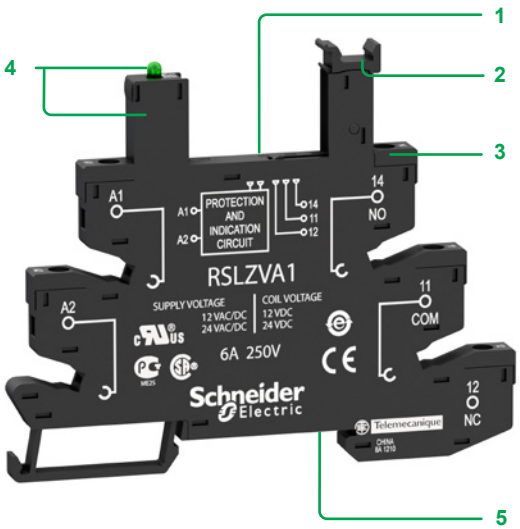
**RSL slim interface relays, pre-assembled**

1 6 A standard relay with 1 CO contact
2 Lever for retaining or easy withdrawal of the relay from its socket
3 Sockets: wire connection by screw connectors or spring terminals
4 Built-in protection circuit and LED indicator on all sockets




**RSL slim interface relay**

1 5 flat (PCB type) standard pins




### Socket description

**Sockets for RSL slim interface relays**

1 5 female contacts for the relay pins
2 Retaining lever with marker label
3 Wire connection by screw connectors or spring terminals
4 Built-in protection circuit and LED indicator
5 Locating slot for mounting on DIN rail

# Zelio Electromechanical Relays
## Plug-in relays
## RSL slim interface relays



PF120937 PF120938

*RSL1PVBU* *RSL1PRPU*

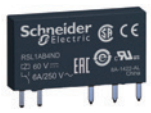
### Pre-assembled slim interface relays

**Standard relays mounted on socket equipped with LED and protection circuit**

**1 CO contact - Thermal current (Ith) 6A**

| Operating voltage V | Control circuit voltage V | Socket type | | | |
|---|---|---|---|---|---|
| | | Screw connector | | Spring terminal | |
| | | Unit reference | Weight kg/*lb* | Unit reference | Weight kg/*lb* |
| ⎓/∿ 12 | ⎓ 12 | RSL1PVJU (RSL1AB4JD + RSLZVA1) | 0.031/*0.068* | RSL1PRJU (RSL1AB4JD + RSLZRA1) | 0.029/*0.064* |
| ⎓/∿ 24 | ⎓ 24 | RSL1PVBU (RSL1AB4BD + RSLZVA1) | 0.031/*0.068* | RSL1PRBU (RSL1AB4BD + RSLZRA1) | 0.029/*0.064* |
| ⎓/∿ 48 | ⎓ 48 | RSL1PVEU (RSL1AB4ED + RSLZVA2) | 0.031/*0.068* | RSL1PREU (RSL1AB4ED + RSLZRA2) | 0.029/*0.064* |
| ⎓/∿ 110 | ⎓ 60 | RSL1PVFU (RSL1AB4ND + RSLZVA3) | 0.031/*0.068* | RSL1PRFU (RSL1AB4ND + RSLZRA3) | 0.029/*0.064* |
| ⎓/∿ 230 | ⎓ 60 | RSL1PVPU (RSL1AB4ND + RSLZVA4) | 0.031/*0.068* | RSL1PRPU (RSL1AB4ND + RSLZRA4) | 0.029/*0.064* |

PF120931




*RSL1AB4ND*

### Slim interface relays for customer assembly

**Relays with flat (PCB type) standard pins**

**1 CO contact - Thermal current (Ith) 6A**

| Control circuit voltage V | Standard | | Low level | |
|---|---|---|---|---|
| | Unit reference | Weight kg/*lb* | Unit reference | Weight kg/*lb* |
| ⎓ 12 | RSL1AB4JD | 0.006/*0.013* | RSL1GB4JD | 0.006/*0.013* |
| ⎓ 24 | RSL1AB4BD | 0.006/*0.013* | RSL1GB4BD | 0.006/*0.013* |
| ⎓ 48 | RSL1AB4ED | 0.006/*0.013* | RSL1GB4ED | 0.006/*0.013* |
| ⎓ 60 | RSL1AB4ND | 0.006/*0.013* | RSL1GB4ND | 0.006/*0.013* |

PF090209 PF090210

*RSLZVA●* *RSLZRA●*

**Sockets equipped with LED and protection circuit**
**Sold in lots of 10**

| Operating voltage V | For use with relays | Socket type | | | |
|---|---|---|---|---|---|
| | | Screw connector | | Spring terminal | |
| | | Unit reference | Weight kg/*lb* | Unit reference | Weight kg/*lb* |
| ⎓/∿ 12 and ⎓/∿ 24 | RSL1●B4JD RSL1●B4BD | RSLZVA1 | 0.025/*0.055* | RSLZRA1 | 0.023/*0.051* |
| ⎓/∿ 48 and ⎓/∿ 60 | RSL1●B4ED RSL1●B4ND | RSLZVA2 | 0.025/*0.055* | RSLZRA2 | 0.023/*0.051* |
| ⎓/∿ 110 | RSL1●B4ND | RSLZVA3 | 0.025/*0.055* | RSLZRA3 | 0.023/*0.051* |
| ⎓/∿ 230 | RSL1●B4ND | RSLZVA4 | 0.025/*0.055* | RSLZRA4 | 0.023/*0.051* |

PF121806

*RSLZ2*

PF121804

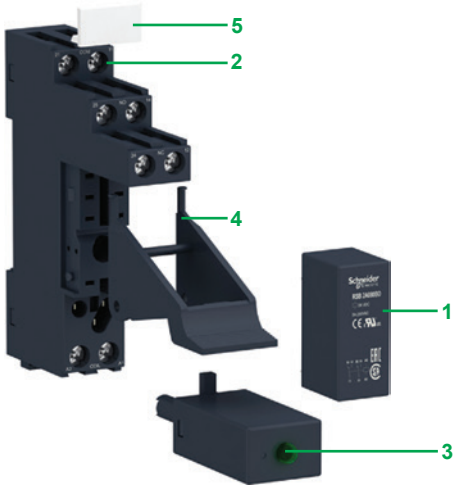
*RSLZ3*

### Socket accessories

| Description | For use with | Reference | Weight kg/*lb* |
|---|---|---|---|
| **Clip-in legends** (2 sheets of 64 legends) | All sockets | RSLZ5 | 0.001/*0.002* |
| **Bus jumper** (10 x 20-pole jumper) | All sockets | RSLZ2 | 0.003/*0.007* |
| **Partition plate** (10 partition plates) | All sockets | RSLZ3 | 0.001/*0.002* |

# Zelio Electromechanical Relays
## Plug-in relays
## RSB interface relays



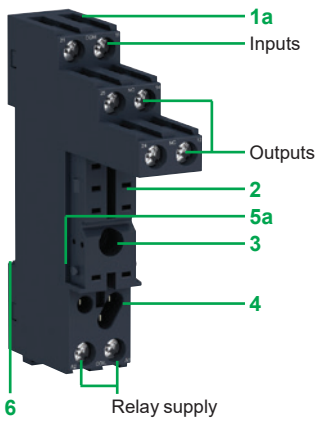


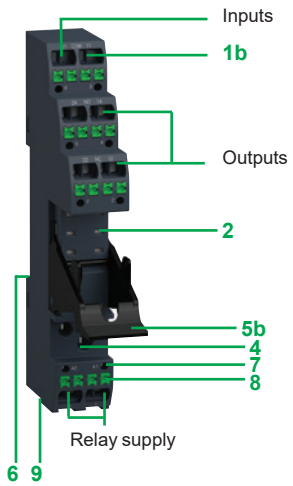

## Presentation of the range

The RSB interface relay range comprises:

1 12 A relays with 1 CO contact , 16 A relays with 1 CO contact, and 8 A relays with 2 CO contacts
2 Sockets with separate contact terminals
3 Protection modules (diode, diode + LED, RC circuit, or varistor + LED) common to all sockets
4 A plastic maintaining clamp for all sockets
5 Clip-in legend for all sockets

These relays are available in both pre-assembled (single reference) and customer assembled offers.




## Socket description

**Sockets with separate contact terminals** *(1)*

1 **a** Connection by connector
  **b** Connection by push-in terminal
2 5 or 8 female contacts for the relay pins
3 Hole for panel mounting
4 Location for protection modules
5 **a** Locking components for plastic maintaining clamp
  **b** Built-in plastic maintaining clamp for locking components
6 Locating slot for mounting on DIN rail
7 Test point
8 Push button to release wire
9 Location for bus jumpers

*(1) The inputs and outputs are separate from the relay supply.*

# Zelio Electromechanical Relays
## Plug-in relays
## RSB interface relays




*RSB2A080F7PV*

### Pre-assembled interface relays

**Relays mounted on sockets with protection module (LED version) and integrated clamp (sold in lots of 30)**

| Control circuit voltage V | Number and types of contact - Thermal current (Ith) | | | | | |
|---|---|---|---|---|---|---|
| | 1 CO - 12 A | | 1 CO - 16 A | | 2 CO- 8 A | |
| | Unit Reference | Weight kg/*lb* | Unit Reference | Weight kg/*lb* | Unit Reference | Weight kg/*lb* |
| 12 ⎓ | **RSB1A120JDPV** (RSB1A120JD + RSZE1S35M + RSZR215 + RZM031RB + RSZL300) | 0.050/ *0.110* | | | **RSB2A080JDPV** (RSB2A080JD + RSZE1S48M + RSZR215 + RZM031RB + RSZL300) | 0.057/ *0.126* |
| 24 ⎓ | **RSB1A120BDPV** (RSB1A120BD + RSZE1S35M + RSZR215 + RZM031RB + RSZL300) | 0.050/ *0.110* | **RSB1A160BDPV** (RSB1A160BD + RSZE1S48M + RSZR215 + RZM031RB + RSZL300) | 0.057/ *0.126* | **RSB2A080BDPV** (RSB2A080BD + RSZE1S48M + RSZR215 + RZM031RB + RSZL300) | 0.057/ *0.126* |
| 24 ∿ | **RSB1A120B7PV** (RSB1A120B7 + RSZE1S35M + RSZR215 + RZM021RB + RSZL300) | 0.050/ *0.110* | | | **RSB2A080B7PV** (RSB2A080B7 + RSZE1S48M + RSZR215 + RZM021RB + RSZL300) | 0.057/ *0.126* |
| 120 ∿ | **RSB1A120F7PV** (RSB1A120F7 + RSZE1S35M + RSZR215 + RZM021FP + RSZL300) | 0.050/ *0.110* | | | **RSB2A080F7PV** (RSB2A080F7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300) | 0.057/ *0.126* |
| 220 ∿ | | | | | **RSB2A080M7PV** (RSB2A080M7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300) | 0.057/ *0.126* |
| 230 ∿ | **RSB1A120P7PV** (RSB1A120P7 + RSZE1S35M + RSZR215 + RZM021FP + RSZL300) | 0.050/ *0.110* | **RSB1A160P7PV** (RSB1A160P7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300) | 0.057/ *0.126* | **RSB2A080P7PV** (RSB2A080P7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300) | 0.057/ *0.126* |

PF153636A

*RSB1A120JD + RZM031RB + RSZE1S35M*

PF153646A

*RSB1A160JD + RSZE1S48M*

XBK_CP19314D

*RSZE05P*

## Interface relays for customer assembly

### RSB interface relays for standard applications (sold in lots of 10)

| Control circuit voltage V | Number and type of contacts - Thermal current (Ith) 1 CO - 12 A Unit reference | 1 CO - 16 A Unit reference | 2 CO - 8 A Unit reference | Weight kg/*lb* |
|---|---|---|---|---|
| ⎓ 6 | RSB1A120RD | RSB1A160RD | RSB2A080RD | 0.014/*0.031* |
| ⎓ 12 | RSB1A120JD | RSB1A160JD | RSB2A080JD | 0.014/*0.031* |
| ⎓ 24 | RSB1A120BD | RSB1A160BD | RSB2A080BD | 0.014/*0.031* |
| ⎓ 48 | RSB1A120ED | RSB1A160ED | RSB2A080ED | 0.014/*0.031* |
| ⎓ 60 | RSB1A120ND | RSB1A160ND | RSB2A080ND | 0.014/*0.031* |
| ⎓ 110 | RSB1A120FD | RSB1A160FD | RSB2A080FD | 0.014/*0.031* |
| ∿ 24 | RSB1A120B7 | RSB1A160B7 | RSB2A080B7 | 0.014/*0.031* |
| ∿ 48 | RSB1A120E7 | RSB1A160E7 | RSB2A080E7 | 0.014/*0.031* |
| ∿ 120 | RSB1A120F7 | RSB1A160F7 | RSB2A080F7 | 0.014/*0.031* |
| ∿ 220 | RSB1A120M7 | RSB1A160M7 | RSB2A080M7 | 0.014/*0.031* |
| ∿ 230 | RSB1A120P7 | RSB1A160P7 | RSB2A080P7 | 0.014/*0.031* |
| ∿ 240 | RSB1A120U7 | RSB1A160U7 | RSB2A080U7 | 0.014/*0.031* |

## Sockets with separate contact terminal arrangement and screw connector connection

| Rated insulation voltage | Thermal current (Ith) | Relay type | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| ∿ 250 V | 12 A | RSB1A120●● | 10 | RSZE1S35M | 0.060/*0.132* |
| | 10 A *(1)* | RSB1A160●● *(2)*<br>RSB2A080●● | 10 | RSZE1S48M | 0.050/*0.110* |

## Sockets with separate contact terminal arrangement, push in terminals, and built-in clamp

| Rated insulation voltage | Thermal current (Ith) | Relay type | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| ∿ 250 V | 12 A | RSB1A●●●●● | 10 | RSZE05P | 0.037/*0.082* |
| | 10 A | RSB2A●●●●● | 10 | RSZE08P | 0.042/*0.093* |

## Protection modules

| Description | For use with | Voltage V | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| **Diode** | All sockets | ⎓ 6…230 | 10 | RZM040W | 0.003/*0.007* |
| **RC circuit** | All sockets | ∿ 24…60 | 10 | RZM041BN7 | 0.010/*0.022* |
| | | ∿ 110…240 | 10 | RZM041FU7 | 0.010/*0.022* |
| **Diode + green LED** | All sockets | ⎓ 6…24 | 10 | RZM031RB | 0.004/*0.009* |
| | | ⎓ 24…60 | 10 | RZM031BN | 0.004/*0.009* |
| | | ⎓ 110…230 | 10 | RZM031FPD | 0.004/*0.009* |
| **Varistor + green LED** | All sockets | ⎓ or ∿ 6…24 | 10 | RZM021RB | 0.005/*0.011* |
| | | ⎓ or ∿ 24…60 | 10 | RZM021BN | 0.005/*0.011* |
| | | ⎓ or ∿ 110…230 | 10 | RZM021FP | 0.005/*0.011* |

*(1) RSZE1S48M is a two terminal socket each carrying 10 A.*
*(2) If RSZE1S48M /RSZE08P socket terminals are linked, relay RSB1A160●● can be used up to 16 A. See "Wiring diagrams" on www.schneider-electric.com.*
***Note**: Starting from 2020, Zelio Relays range name will change to Harmony Relays. As the timeline for each range is different, there will be both Zelio and Harmony range during the transition period.*

## Accessories

| Description | For use with | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|
| **Plastic maintaining clamp** | All sockets | 10 | **RSZR215** | 0.002/*0.004* |
| **Legend** | All sockets | 10 | **RSZL300** | 0.001/*0.002* |
| **Bus jumper** (10 x 8-pole jumper) | For inputs (A1, A2) of RSZE screw sockets (RSZE1S35M, RSZE1S48M) | 10 | **RGZS08** | 0.006/*0.013* |
| **Bus jumper** (10 x 2-pole jumper) | For input (A2) of RSZE push-in sockets (RSZE05P, RSZE08P) | 10 | **RSZS02** | 0.002/0.004 |

XBK_CP19466

*RSZR215*

RS_532_CPSCT17003-68-Q

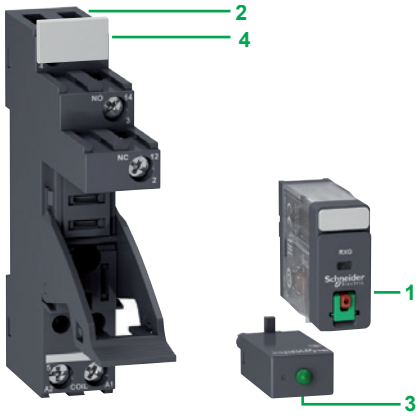
*RGZS08*

XBK_CP19318

*RSZS02*

# Zelio Electromechanical Relays
## Plug-in relays
## RXG interface relays





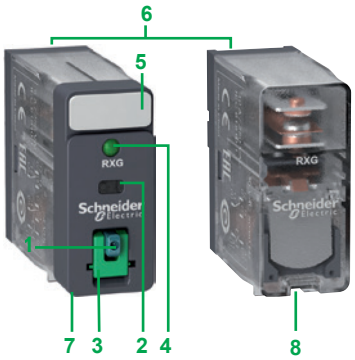

## Presentation of the range

RXG relays are interface plug-in relays with Faston pins for better reliability and robust installation. They are used in PLC applications.

The RXG interface relay range comprises:

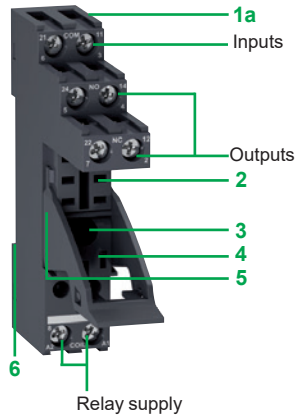
1 10 A relays with 1 CO contact and 5 A relays with 2 CO contacts
2 Sockets with separate contact terminals, built-in plastic maintaining clamp
3 Protection modules (diode, diode + LED, RC circuit, or varistor + LED) common to all RXG sockets
4 Clip-in legends for all RXG sockets

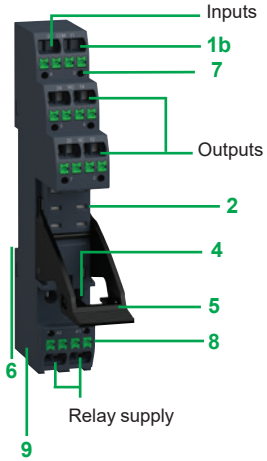
These relays are available in both pre-assembled (single reference) and customer assembled offers.




## Relay description

1 Spring-return pushbutton for testing the contacts (green: ⎓, red: ∿)
2 Mechanical “relay status” indicator
3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes
4 LED (depending on version) indicating the relay status
5 Removable legend for relay identification
6 5 or 8 Faston type pins
7 Standard cover-type relay with pushbutton, mechanical indicator, and LED options
8 Clear cover-type relay




## Socket description

**Sockets with separate contact terminals** *(1)*

1 **a** Connection by connector
  **b** Connection by push-in terminal
2 5 or 8 female contacts for the relay pins
3 Hole for panel mounting
4 Location for protection modules
5 Built-in plastic maintaining clamp for locking components
6 Locating slot for mounting on DIN rail
7 Test point
8 Push button to release wire
9 Location for bus jumpers

*(1) The inputs and outputs are separate from the relay supply.*

# Zelio Electromechanical Relays
## Plug-in relays
## RXG interface relays




*RXG22BDPV*

### Pre-assembled interface relays

**Relays with lockable test button and LED, mounted on sockets with protection module and integrated clamp**

| Control circuit voltage V | Sold in lots of | Number and type of contacts - Thermal current (Ith) 1 CO - 10 A Unit reference | Weight kg/*lb* | 2 CO - 5 A Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| 24 ⎓ | 30 | RXG12BDPV (RXG12BD + RGZE1S35M + RZM031RB) | 0.059/*0.130* | RXG22BDPV (RXG22BD + RGZE1S48M + RZM031RB) | 0.066/*0.145* |
| 24 ∿ | 30 | RXG12B7PV (RXG12B7 + RGZE1S35M + RZM021RB) | 0.059/*0.130* | RXG22B7PV (RXG22B7 + RGZE1S48M + RZM021RB) | 0.067/*0.148* |
| 230 ∿ | 30 | RXG12P7PV (RXG12P7 + RGZE1S35M + RZM021FP) | 0.059/*0.130* | RXG22P7PV (RXG22P7 + RGZE1S48M + RZM021FP) | 0.067/*0.148* |

**Relays with LED, mounted on sockets with protection module, and integrated clamp and LED**

| | | | | | |
|---|---|---|---|---|---|
| 24 ⎓ | 30 | RXG13BDPV (RXG13BD + RGZE1S35M + RZM031RB) | 0.058/*0.129* | RXG23BDPV (RXG23BD + RGZE1S48M + RZM031RB) | 0.066/*0.145* |
| 230 ∿ | 30 | RXG13P7PV (RXG13P7 + RGZE1S35M + RZM021FP) | 0.059/*0.130* | RXG23P7PV (RXG23P7 + RGZE1S48M + RZM021FP) | 0.067/*0.148* |

**Relays with lockable test button and without LED, mounted on sockets with protection module, and integrated clamp and LED**

| | | | | | |
|---|---|---|---|---|---|
| 24 ⎓ | 30 | | | RXG21BDPV (RXG21BD + RGZE1S48M + RZM031RB) | 0.067/*0.148* |
| 24 ∿ | 30 | | | RXG21B7PV (RXG21B7 + RGZE1S48M + RZM021RB) | 0.067/*0.148* |
| 230 ∿ | 30 | | | RXG21P7PV (RXG21P7 + RGZE1S48M + RZM021FP) | 0.067/*0.148* |


*RXG11RD*

### Interface relays for customer assembly

**Standard cover relays with lockable test button**

| | | | | |
|---|---|---|---|---|
| 6 ⎓ | 10 | RXG11RD | RXG21RD | 0.020/*0.044* |
| 12 ⎓ | 10 | RXG11JD | RXG21JD | 0.020/*0.044* |
| 24 ⎓ | 10 | RXG11BD | RXG21BD | 0.020/*0.044* |
| 48 ⎓ | 10 | RXG11ED | RXG21ED | 0.020/*0.044* |
| 60 ⎓ | 10 | RXG11ND | RXG21ND | 0.020/*0.044* |
| 110 ⎓ | 10 | RXG11FD | RXG21FD | 0.020/*0.044* |
| 24 ∿ | 10 | RXG11B7 | RXG21B7 | 0.020/*0.044* |
| 48 ∿ | 10 | RXG11E7 | RXG21E7 | 0.020/*0.044* |
| 120 ∿ | 10 | RXG11F7 | RXG21F7 | 0.020/*0.044* |
| 220 ∿ | 10 | RXG11M7 | RXG21M7 | 0.020/*0.044* |
| 230 ∿ | 10 | RXG11P7 | RXG21P7 | 0.020/*0.044* |

# Zelio Electromechanical Relays
## Plug-in relays
### RXG interface relays



PF132510

*RXG22B7*

PF132505

*RXG13RD*

PF132507

*RXG15RD*

## Interface relays for customer assembly

### Standard cover relays with lockable test button and LED

| Control circuit voltage V | Sold in lots of | Number and type of contacts - Thermal current (Ith) | | |
|---|---|---|---|---|
| | | 1 CO - 10 A | 2 CO - 5 A | |
| | | Unit reference | Unit reference | Weight kg/*lb* |
| 6 ⎓ | 10 | RXG12RD | RXG22RD | 0.020/*0.044* |
| 12 ⎓ | 10 | RXG12JD | RXG22JD | 0.020/*0.044* |
| 24 ⎓ | 10 | RXG12BD | RXG22BD | 0.020/*0.044* |
| 48 ⎓ | 10 | RXG12ED | RXG22ED | 0.020/*0.044* |
| 60 ⎓ | 10 | RXG12ND | RXG22ND | 0.020/*0.044* |
| 110 ⎓ | 10 | RXG12FD | RXG22FD | 0.020/*0.044* |
| 24 ∿ | 10 | RXG12B7 | RXG22B7 | 0.020/*0.044* |
| 48 ∿ | 10 | RXG12E7 | RXG22E7 | 0.020/*0.044* |
| 120 ∿ | 10 | RXG12F7 | RXG22F7 | 0.020/*0.044* |
| 220 ∿ | 10 | RXG12M7 | RXG22M7 | 0.020/*0.044* |
| 230 ∿ | 10 | RXG12P7 | RXG22P7 | 0.020/*0.044* |

### Standard cover relays with LED

| | | | | |
|---|---|---|---|---|
| 6 ⎓ | 10 | RXG13RD | RXG23RD | 0.020/*0.044* |
| 12 ⎓ | 10 | RXG13JD | RXG23JD | 0.020/*0.044* |
| 24 ⎓ | 10 | RXG13BD | RXG23BD | 0.020/*0.044* |
| 48 ⎓ | 10 | RXG13ED | RXG23ED | 0.020/*0.044* |
| 60 ⎓ | 10 | RXG13ND | RXG23ND | 0.020/*0.044* |
| 110 ⎓ | 10 | RXG13FD | RXG23FD | 0.020/*0.044* |
| 24 ∿ | 10 | RXG13B7 | RXG23B7 | 0.020/*0.044* |
| 48 ∿ | 10 | RXG13E7 | RXG23E7 | 0.020/*0.044* |
| 120 ∿ | 10 | RXG13F7 | RXG23F7 | 0.020/*0.044* |
| 220 ∿ | 10 | RXG13M7 | RXG23M7 | 0.020/*0.044* |
| 230 ∿ | 10 | RXG13P7 | RXG23P7 | 0.020/*0.044* |

### Clear cover relays

| | | | | |
|---|---|---|---|---|
| 6 ⎓ | 10 | RXG15RD | RXG25RD | 0.019/*0.042* |
| 12 ⎓ | 10 | RXG15JD | RXG25JD | 0.019/*0.042* |
| 24 ⎓ | 10 | RXG15BD | RXG25BD | 0.019/*0.042* |
| 48 ⎓ | 10 | RXG15ED | RXG25ED | 0.019/*0.042* |
| 60 ⎓ | 10 | RXG15ND | RXG25ND | 0.019/*0.042* |
| 110 ⎓ | 10 | RXG15FD | RXG25FD | 0.019/*0.042* |
| 24 ∿ | 10 | RXG15B7 | RXG25B7 | 0.018/*0.040* |
| 48 ∿ | 10 | RXG15E7 | RXG25E7 | 0.018/*0.040* |
| 120 ∿ | 10 | RXG15F7 | RXG25F7 | 0.018/*0.040* |
| 220 ∿ | 10 | RXG15M7 | RXG25M7 | 0.018/*0.040* |
| 230 ∿ | 10 | RXG15P7 | RXG25P7 | 0.018/*0.040* |

# Zelio Electromechanical Relays
## Plug-in relays
## RXG interface relays



PF132517

*RGZE1S48M*

### Sockets with separate contact terminals arrangement, screw connector connection, and built-in clamp

| Description | Thermal current (Ith) | Relay type | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| 1 CO socket with 1 pole | 10 A | **RXG1●●●** | 10 | **RGZE1S35M** | 0.034/*0.075* |
| 2 CO socket with 2 poles | 5 A | **RXG2●●●** | 10 | **RGZE1S48M** | 0.042/*0.093* |

XBK_CP19316B

*RGZE05P*

### Sockets with separate contact terminal arrangement, push-in terminals, and built-in clamp

| Description | Thermal current (Ith) | Relay type | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| 1 CO socket with 1 pole | 10 A | **RXG1●●●** | 10 | **RGZE05P** | 0.039/*0.086* |
| 2 CO socket with 2 poles | 5 A | **RXG2●●●** | 10 | **RGZE08P** | 0.042/*0.093* |

PF132522

*RZM031RB*

PF132519

*RSZL300*

RS_532_CPSCT17003

*RGZS08*

### Protection modules

| Description | For use with | Voltage V | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| **Diode** | All sockets | ⎓ 6…230 | 10 | **RZM040W** | 0.003/*0.007* |
| **RC circuit** | All sockets | ∿ 24…60 | 10 | **RZM041BN7** | 0.010/*0.022* |
| | | ∿ 110…240 | 10 | **RZM041FU7** | 0.010/*0.022* |
| **Diode + green LED** | All sockets | ⎓ 6…24 | 10 | **RZM031RB** | 0.004/*0.009* |
| | | ⎓ 24…60 | 10 | **RZM031BN** | 0.004/*0.009* |
| | | ⎓ 110…230 | 10 | **RZM031FPD** | 0.004/*0.009* |
| **Varistor + green LED** | All sockets | ⎓ or ∿ 6…24 | 10 | **RZM021RB** | 0.005/*0.011* |
| | | ⎓ or ∿ 24…60 | 10 | **RZM021BN** | 0.005/*0.011* |
| | | ⎓ or ∿ 110…230 | 10 | **RZM021FP** | 0.005/*0.011* |

PF132518

*RGZR215*

XBK_CP19319A

*RSZS02*

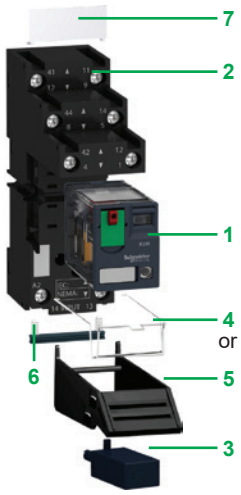
### Accessories

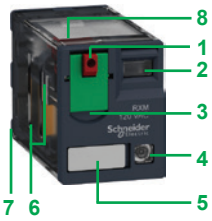
| Description | For use with | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|
| **Plastic maintaining clamp** | All sockets | 10 | **RGZR215** | 0.002/*0.004* |
| **Legend** | All sockets | 10 | **RSZL300** | 0.001/*0.002* |
| **Legend** | All relays | 10 | **RGZL520** | 0.001/*0.002* |
| **Bus jumper** (10 x 8-pole jumper) | For inputs (A1, A2) of RGZE screw sockets (RGZE1S35M, RGZE1S48M) | 10 | **RGZS08** | 0.006/*0.013* |
| **Bus jumper** (10 x 2-pole jumper) | For input (A2) of RGZE push-in sockets (RGZE05P, RGZE08P) | 10 | **RSZS02** | 0.002/*0.004* |

***Note**: Starting from 2020, Zelio Relays range name will change to Harmony Relays. As the timeline for each range is different, there will be both Zelio and Harmony range during the transition period.*

# Zelio Electromechanical Relays
## Plug-in relays
### RXM miniature relays









## Presentation of the range

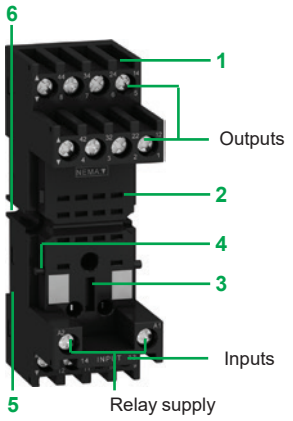
The RXM miniature relay range comprises:

1 12 A relays with 2 CO contacts, 10 A relays with 3 CO contacts, 6 A relays with 4 CO contacts, and 3 A “low level” relays with 4 CO contacts (all these relays have the same dimensions)
2 Sockets with mixed or separate contact terminals
3 Protection modules (diode, RC circuit, or varistor) common to all sockets
4 Metal maintaining clamp for all sockets
5 Plastic maintaining clamp for all sockets
6 2-pole bus jumper that can be used on sockets with separate contact terminals in order to simplify cabling when creating an equipotential link between the coil terminals
7 Clip-in legends for all sockets except **RXZE2M114** and **RXZE2S114S**

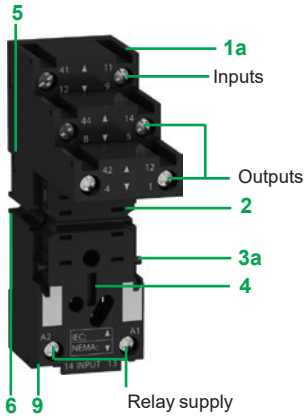
These relays are available in both pre-assembled (single reference) and customer assembled offers.

## Relay description

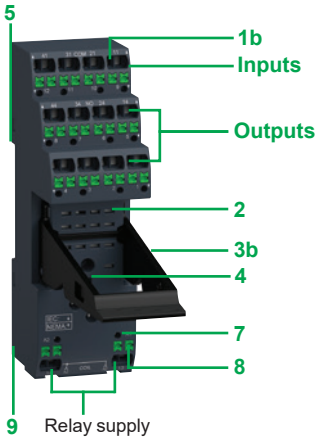
1 Spring-return pushbutton for testing the contacts (green: ⎓, red: ∿)
2 Mechanical “relay status” indicator
3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes
4 LED (depending on version) indicating the relay status
5 Removable legend for relay identification
6 4 notches for rail mounting adapter or panel mounting adapter with mounting lugs
7 8, 11, or 14 Faston type pins
8 Area by which the product can be easily gripped
9 Mounting adapter enabling direct mounting of the relay on a panel
10 Mounting adapter enabling direct mounting of the relay on a DIN rail




*Sockets with mixed contact terminals*




*Sockets with separate contact terminals*




*Sockets with separate contact terminals*

## Socket description

**Sockets with mixed contact terminals** *(1)*

1 Connection by screw clamp terminals or screw connector
2 14 female contacts for the relay pins
3 Location for protection modules
4 Locking components for plastic and metal maintaining clamps
5 Locating slot for mounting on DIN rail with compression spring or mounting clip
6 2 or 4 holes for panel mounting

**Sockets with separate contact terminals** *(2)*

1 a Connection by connector
  b Connection by push in terminal
2 8, 11, or 14 female contacts for the relay pins
3 a Locking components for plastic and metal maintaining clamps
  b Built-in plastic maintaining clamp for locking components
4 Location for protection modules
5 Locating slot for mounting on DIN rail with compression spring or mounting clip
6 2 holes for panel mounting
7 Test point
8 Push button to release wire
9 Location for bus jumpers

*(1) The inputs are mixed with the relay supply, with the outputs being located on the opposite side of the socket.*
*(2) The inputs and outputs are separate from the relay supply.*

# Zelio Electromechanical Relays
## Plug-in relays
### RXM miniature relays




*RXM4AB1BDPVS*

## Pre-assembled interface relays

**Relays without LED, mounted on sockets with clamp and socket legend (sold in lots of 30)**

| Control circuit voltage V | Type of socket | Number and type of contacts - Thermal current (Ith) | | | |
|---|---|---|---|---|---|
| | | 2 CO - 12 A | | 4 CO - 6 A | |
| | | Unit reference | Weight kg/*lb* | Unit reference | Weight kg/*lb* |
| 24 ⎓ | Mixed terminal socket | – | – | RXM4AB1BDPVM (RXM4AB1BD + RXZE2M114M + RXZR335 + RXZL520) | 0.099/ *0.218* |
| 24 ∿ | | – | – | RXM4AB1B7PVM (RXM4AB1B7 + RXZE2M114M + RXZR335 + RXZL520) | 0.099/ *0.218* |
| 230 ∿ | | – | – | RXM4AB1P7PVM (RXM4AB1P7 + RXZE2M114M + RXZR335 + RXZL520) | 0.099/ *0.218* |
| 24 ⎓ | Separate terminal socket | – | – | RXM4AB1BDPVS (RXM4AB1BD + RXZE2S114M + RXZR335 + RXZL520) | 0.113/ *0.249* |
| 24 ∿ | | – | – | RXM4AB1B7PVS (RXM4AB1B7 + RXZE2S114M + RXZR335 + RXZL520) | 0.113/ *0.249* |
| 230 ∿ | | – | – | RXM4AB1P7PVS (RXM4AB1P7 + RXZE2S114M + RXZR335 + RXZL520) | 0.113/ *0.249* |

**Relays with LED, mounted on sockets with clamp and socket legend (sold in lots of 30)**

| | | | | | |
|---|---|---|---|---|---|
| 24 ⎓ | Mixed terminal socket | RXM2AB2BDPVM (RXM2AB2BD + RXZE2M114M + RXZR335 + RXZL520) | 0.099/ *0.218* | RXM4AB2BDPVM (RXM4AB2BD + RXZE2M114M + RXZR335 + RXZL520) | 0.099/ *0.218* |
| 24 ∿ | | RXM2AB2B7PVM (RXM2AB2B7 + RXZE2M114M + RXZR335 + RXZL520) | 0.099/ *0.218* | RXM4AB2B7PVM (RXM4AB2B7 + RXZE2M114M + RXZR335 + RXZL520) | 0.099/ *0.218* |
| 230 ∿ | | RXM2AB2P7PVM (RXM2AB2P7 + RXZE2M114M + RXZR335 + RXZL520) | 0.099/ *0.218* | RXM4AB2P7PVM (RXM4AB2P7 + RXZE2M114M + RXZR335 + RXZL520) | 0.099/ *0.218* |
| 24 ⎓ | Separate terminal socket | RXM2AB2BDPVS (RXM2AB2BD + RXZE2S108M + RXZR335 + RXZL520) | 0.101/ *0.223* | RXM4AB2BDPVS (RXM4AB2BD + RXZE2S114M + RXZR335 + RXZL520) | 0.113/ *0.249* |
| 24 ∿ | | RXM2AB2B7PVS (RXM2AB2B7 + RXZE2S108M + RXZR335 + RXZL520) | 0.101/ *0.223* | RXM4AB2B7PVS (RXM4AB2B7 + RXZE2S114M + RXZR335 + RXZL520) | 0.113/ *0.249* |
| 230 ∿ | | RXM2AB2P7PVS (RXM2AB2P7 + RXZE2S108M + RXZR335 + RXZL520) | 0.101/ *0.223* | RXM4AB2P7PVS (RXM4AB2P7 + RXZE2S114M + RXZR335 + RXZL520) | 0.113/ *0.249* |

# Zelio Electromechanical Relays
## Plug-in relays
## RXM miniature relays



PF153500

RXM2AB1BD

PF106011

RXM2AB1F7

PF153504

RXM2AB2ED

PF153506

RXM2AB2F7

PF153502A

RXM4GB1BD

PF153500A

RXM4GB1P7

PF153504A

RXM4GB2BD

PF153506A

RXM4GB2F7

## Miniature relays for customer assembly

### RXM miniature relays without LED (sold in lots of 10)

| Control circuit voltage V | Number and type of contacts - Thermal current (Ith) 2 CO - 12 A | | 3 CO - 10 A | | 4 CO - 6 A | |
|---|---|---|---|---|---|---|
| | Unit reference | Weight kg/*lb* | Unit reference | Weight kg/*lb* | Unit reference | Weight kg/*lb* |
| ⎓ 12 | RXM2AB1JD | 0.037/*0.082* | RXM3AB1JD | 0.037/*0.082* | RXM4AB1JD | 0.037/*0.082* |
| ⎓ 24 | RXM2AB1BD | 0.037/*0.082* | RXM3AB1BD | 0.037/*0.082* | RXM4AB1BD | 0.037/*0.082* |
| ⎓ 48 | RXM2AB1ED | 0.037/*0.082* | RXM3AB1ED | 0.037/*0.082* | RXM4AB1ED | 0.037/*0.082* |
| ⎓ 110 | RXM2AB1FD | 0.037/*0.082* | RXM3AB1FD | 0.037/*0.082* | RXM4AB1FD | 0.037/*0.082* |
| ⎓ 220 | – | – | – | – | RXM4AB1MD | 0.037/*0.082* |
| ∿ 24 | RXM2AB1B7 | 0.037/*0.082* | RXM3AB1B7 | 0.037/*0.082* | RXM4AB1B7 | 0.037/*0.082* |
| ∿ 48 | RXM2AB1E7 | 0.037/*0.082* | RXM3AB1E7 | 0.037/*0.082* | RXM4AB1E7 | 0.037/*0.082* |
| ∿ 120 | RXM2AB1F7 | 0.037/*0.082* | RXM3AB1F7 | 0.037/*0.082* | RXM4AB1F7 | 0.037/*0.082* |
| ∿ 230 | RXM2AB1P7 | 0.037/*0.082* | RXM3AB1P7 | 0.037/*0.082* | RXM4AB1P7 | 0.037/*0.082* |
| ∿ 240 | – | – | – | – | RXM4AB1U7 | 0.037/*0.082* |

### RXM miniature relays with LED (sold in lots of 10)

| | | | | | | |
|---|---|---|---|---|---|---|
| ⎓ 12 | RXM2AB2JD | 0.037/*0.082* | RXM3AB2JD | 0.037/*0.082* | RXM4AB2JD | 0.037/*0.082* |
| ⎓ 24 | RXM2AB2BD | 0.037/*0.082* | RXM3AB2BD | 0.037/*0.082* | RXM4AB2BD | 0.037/*0.082* |
| ⎓ 48 | RXM2AB2ED | 0.037/*0.082* | RXM3AB2ED | 0.037/*0.082* | RXM4AB2ED | 0.037/*0.082* |
| ⎓ 110 | RXM2AB2FD | 0.037/*0.082* | RXM3AB2FD | 0.037/*0.082* | RXM4AB2FD | 0.037/*0.082* |
| ⎓ 125 | – | – | – | – | RXM4AB2GD | 0.037/*0.082* |
| ∿ 24 | RXM2AB2B7 | 0.037/*0.082* | RXM3AB2B7 | 0.037/*0.082* | RXM4AB2B7 | 0.037/*0.082* |
| ∿ 48 | RXM2AB2E7 | 0.037/*0.082* | RXM3AB2E7 | 0.037/*0.082* | RXM4AB2E7 | 0.037/*0.082* |
| ∿ 120 | RXM2AB2F7 | 0.037/*0.082* | RXM3AB2F7 | 0.037/*0.082* | RXM4AB2F7 | 0.037/*0.082* |
| ∿ 230 | RXM2AB2P7 | 0.037/*0.082* | RXM3AB2P7 | 0.037/*0.082* | RXM4AB2P7 | 0.037/*0.082* |

### RXM miniature relays with low level contacts, without LED (sold in lots of 10)

| Control circuit voltage V | Number and type of contacts Thermal current (Ith) 4 CO - 3 A | |
|---|---|---|
| | Unit reference | Weight kg/*lb* |
| ⎓ 12 | RXM4GB1JD | 0.037/*0.082* |
| ⎓ 24 | RXM4GB1BD | 0.037/*0.082* |
| ⎓ 48 | RXM4GB1ED | 0.037/*0.082* |
| ⎓ 110 | RXM4GB1FD | 0.037/*0.082* |
| ∿ 24 | RXM4GB1B7 | 0.037/*0.082* |
| ∿ 48 | RXM4GB1E7 | 0.037/*0.082* |
| ∿ 120 | RXM4GB1F7 | 0.037/*0.082* |
| ∿ 230 | RXM4GB1P7 | 0.037/*0.082* |

### RXM miniature relays with low level contacts, with LED (sold in lots of 10)

| | | |
|---|---|---|
| ⎓ 12 | RXM4GB2JD | 0.037/*0.082* |
| ⎓ 24 | RXM4GB2BD | 0.037/*0.082* |
| ⎓ 48 | RXM4GB2ED | 0.037/*0.082* |
| ⎓ 60 | RXM4GB2ND | 0.037/*0.082* |
| ⎓ 110 | RXM4GB2FD | 0.037/*0.082* |
| ⎓ 125 | RXM4GB2GD | 0.037/*0.082* |
| ⎓ 220 | RXM4GB2MD | 0.037/*0.082* |
| ∿ 24 | RXM4GB2B7 | 0.037/*0.082* |
| ∿ 48 | RXM4GB2E7 | 0.037/*0.082* |
| ∿ 120 | RXM4GB2F7 | 0.037/*0.082* |
| ∿ 230 | RXM4GB2P7 | 0.037/*0.082* |
| ∿ 240 | RXM4GB2U7 | 0.037/*0.082* |

# Zelio Electromechanical Relays
## Plug-in relays
## RXM miniature relays



PF153537A

*RXZE2S108M*
*+*
*Relay RXM4AB1F7*

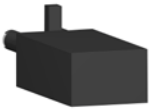
### Sockets

| Contact terminal arrangement | Connection | Relay type | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| **Mixed** | Screw clamp terminals | RXM2●●●●● *(3)*<br>RXM4●●●●● | 10 | **RXZE2M114** *(1)* | 0.048/*0.106* |
| | Screw connector | RXM2●●●●● *(3)*<br>RXM4●●●●● | 10 | **RXZE2M114M** *(1)* | 0.056/*0.124* |
| **Separate** | Spring clamp terminals | RXM2●●●●● *(3)*<br>RXM4●●●●● | 10 | **RXZE2S114S** *(2)* | 0.070/*0.154* |
| | Screw connector | RXM2●●●●● | 10 | **RXZE2S108M** *(2)* | 0.058/*0.128* |
| | | RXM3●●●●● | 10 | **RXZE2S111M** *(1)* | 0.066/*0.146* |
| | | RXM4●●●●● | 10 | **RXZE2S114M** *(1)* | 0.070/*0.154* |
| **Separate** | Spring clamp push-in terminals | RXM2●●●●●<br>RXM4●●●●● | 10 | **RXZE14P** | 0.080/*0.176* |

### Protection modules

| Description | Voltage V | For use with | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| **Diode** | ⎓ 6...250 | All sockets | 10 | **RXM040W** | 0.003/*0.007* |
| **RC circuit** | ∿ 24...60 | All sockets | 10 | **RXM041BN7** | 0.010/*0.022* |
| | ∿ 110...240 | All sockets | 10 | **RXM041FU7** | 0.010/*0.022* |
| **Varistor** | ∿/⎓ 6...24 | All sockets | 10 | **RXM021RB** | 0.030/*0.066* |
| | ∿/⎓ 24...60 | All sockets | 10 | **RXM021BN** | 0.030/*0.066* |
| | ∿/⎓ 110...240 | All sockets | 10 | **RXM021FP** | 0.030/*0.066* |

PF106018



*RXM041●●7*

### Timing relays

| Description | For use with | Unit reference | Weight kg/*lb* |
|---|---|---|---|
| **2 or 4 timed CO contacts** (function A) | RXZE●●●●●● sockets | **REXL2●●** *(4)* | – |
| | | **REXL4●●** *(4)* | – |

*(1) Thermal current (Ith): 10 A.*
*(2) Thermal current (Ith): 12 A.*
*(3) When mounting relay RXM2●●●●● on socket RXZE2M●●●●, the thermal current should not exceed 10 A.*
*(4) Please refer to "Zelio Time timing relays" catalog.*
*(5) Test button becomes inaccessible.*
***Note**: Starting from 2020, Zelio Relays range name will change to Harmony Relays. As the timeline for each range is different, there will be both Zelio and Harmony range during the transition period.*

# Zelio Electromechanical Relays
## Plug-in relays
## RXM miniature relays

RE_529_CPF_IR18001B

*REXL4●●*

XBK_CP193219A

*RXZR315*

PF153330A

*RXZS2*

XBK_CP19318A

*RSZS02*

PF153531

*RXZE2DA*

PF153528A

*RXZ400*

PF153533A

*RXZL520*

XBK_CP193220A

*RXZL300*

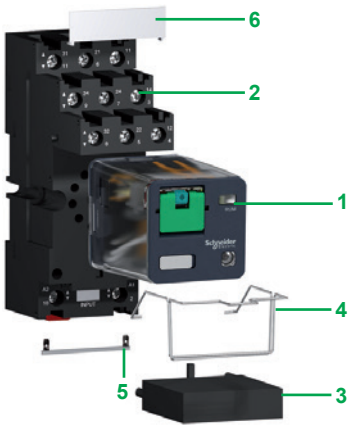
## Accessories

| Description | For use with | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|
| **Metal maintaining clamp** | All sockets | 10 | RXZ400 | 0.001/*0.002* |
| **Plastic maintaining clamp** | All sockets except push-in socket RXZE14P | 10 | RXZR335 | 0.005/*0.011* |
| | RXZE14P | 10 | RXZR315 | 0.004/*0.009* |
| **2-pole bus jumper (Ith: 5 A)** | All screw sockets with separate contacts (RXZE2S●●●●) | 10 | RXZS2 | 0.005/*0.011* |
| **Bus jumper** (10 x 2-pole jumper) | For input (A2) of RXZE push in sockets (RXZE14P) | 10 | RSZS02 | 0.002/*0.004* |
| **Mounting adapter for ⊔ rails** *(5)* | All relays | 10 | RXZE2DA | 0.004/*0.009* |
| **Mounting adapter with panel mounting lugs** | All relays | 10 | RXZE2FA | 0.002/*0.004* |
| **Clip-in legends** | All relays (sheet of 108 legends) | 10 | RXZL520 | 0.080/*0.176* |
| | RXZE14P | 10 | RXZL300 | 0.004/*0.009* |
| | All sockets except RXZE2M114 and RXZE2S114S | 10 | RXZL420 | 0.001/*0.002* |
| | RXZE2S114S socket | 10 | RSZL300 | 0.001/*0.002* |

*(1) Thermal current (Ith): 10 A.*
*(2) Thermal current (Ith): 12 A.*
*(3) When mounting relay RXM2●●●●● on socket RXZE2M●●●●, the thermal current should not exceed 10 A.*
*(4) Please refer to "Zelio Time timing relays" catalog.*
*(5) Test button becomes inaccessible.*

# Zelio Electromechanical Relays
## Plug-in relays
## RUM universal relays

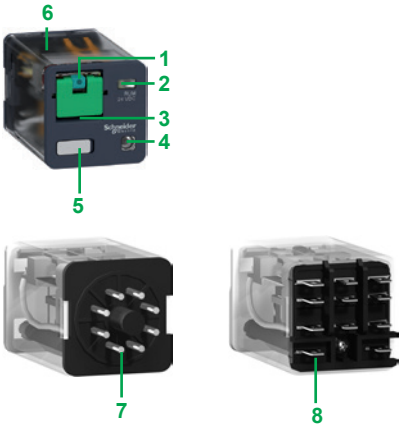





### Presentation of the range

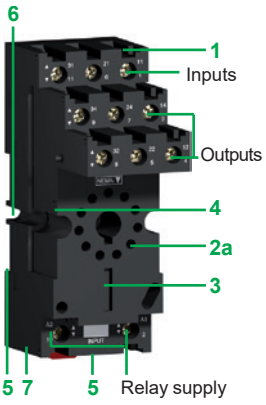
The RUM universal relay range comprises:

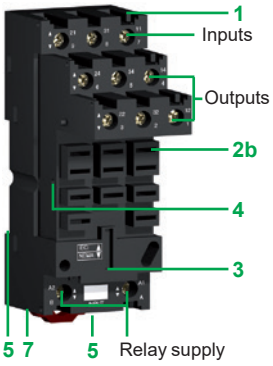
1 10 A relays with 2 and 3 CO contacts, and cylindrical or flat (Faston type) pins (all these relays have the same dimensions)
2 Sockets with mixed or separate contact terminals
3 Protection modules (diode, RC circuit, or varistor) or 1 timer module, common to all RUM sockets
4 Metal maintaining clamp for all RUM sockets
5 2-pole bus jumper that can be used on sockets with separate contact terminals in order to simplify cabling when creating an equipotential link between the coil terminals
6 Clip-in legends for the sockets




### Relay description

1 Spring-return pushbutton for testing the contacts (green: ⎓, red: ∿)
2 Mechanical “relay status” indicator
3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes *(1)*
4 LED (depending on version) indicating the relay status
5 Removable legend for relay identification
6 Area by which the product can be easily gripped
7 8 or 11 cylindrical pins
8 8 or 11 flat (Faston type) pins



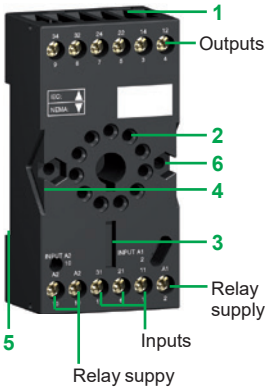

### Socket description

**Sockets with separate contact terminals** *(3)*

1 Connection by screw connector
2 **a** 8 or 11 female contacts for the relay cylindrical pins
**b** 11 female contacts for the relay flat pins
3 Location for protection modules or the timer module
4 Locking component for metal maintaining clamp
5 Locating slot for mounting on DIN rail with mounting clip
6 2 holes for panel mounting
7 Location for bus jumpers (see dimensions for mounting on sockets on www.schneider-electric.com)

*(1) During operation, this lock-down door must always be in the closed position.*
*(2) The inputs are mixed with the relay supply, with the outputs being located on the opposite side of the socket.*
*(3) The inputs and outputs are separate from the relay supply.*

# Zelio Electromechanical Relays
## Plug-in relays
## RUM universal relays




## Socket description *(continued)*

**Sockets with mixed contact terminals** *(2)*

1 Connection by screw connector
2 8 or 11 female contacts for the relay cylindrical pins
3 Location for protection modules or the timer module
4 Locking component for metal maintaining clamp
5 A locating slot for mounting on DIN rail
6 2 holes for panel mounting



## Universal relays for customer assembly

**Relays for standard applications, with lockable test button and without LED** (sold in lots of 10)

| Pins | Control circuit voltage V | Number and type of contacts - Thermal current (Ith) 2 CO - 10 A Unit reference | Weight kg/*lb* | 3 CO - 10 A Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| **Cylindrical** | ⎓ 12 | RUMC21JD | 0.086/*0.190* | RUMC31JD | 0.086/*0.190* |
| | ⎓ 24 | RUMC21BD | 0.086/*0.190* | RUMC31BD | 0.086/*0.190* |
| | ⎓ 48 | RUMC21ED | 0.086/*0.190* | RUMC31ED | 0.086/*0.190* |
| | ⎓ 60 | – | – | RUMC31ND | 0.086/*0.190* |
| | ⎓ 110 | RUMC21FD | 0.086/*0.190* | RUMC31FD | 0.086/*0.190* |
| | ⎓ 125 | – | – | RUMC31GD | 0.086/*0.190* |
| | ⎓ 220 | – | – | RUMC31MD | 0.086/*0.190* |
| | ∿ 24 | RUMC21B7 | 0.086/*0.190* | RUMC31B7 | 0.086/*0.190* |
| | ∿ 48 | RUMC21E7 | 0.086/*0.190* | RUMC31E7 | 0.086/*0.190* |
| | ∿ 120 | RUMC21F7 | 0.086/*0.190* | RUMC31F7 | 0.086/*0.190* |
| | ∿ 230 | RUMC21P7 | 0.086/*0.190* | RUMC31P7 | 0.086/*0.190* |
| **Flat** (Faston type) | ⎓ 12 | RUMF21JD | 0.086/*0.190* | RUMF31JD | 0.086/*0.190* |
| | ⎓ 24 | RUMF21BD | 0.086/*0.190* | RUMF31BD | 0.086/*0.190* |
| | ⎓ 48 | RUMF21ED | 0.086/*0.190* | RUMF31ED | 0.086/*0.190* |
| | ⎓ 110 | RUMF21FD | 0.086/*0.190* | RUMF31FD | 0.086/*0.190* |
| | ∿ 24 | RUMF21B7 | 0.086/*0.190* | RUMF31B7 | 0.086/*0.190* |
| | ∿ 48 | RUMF21E7 | 0.086/*0.190* | RUMF31E7 | 0.086/*0.190* |
| | ∿ 120 | RUMF21F7 | 0.086/*0.190* | RUMF31F7 | 0.086/*0.190* |
| | ∿ 230 | RUMF21P7 | 0.086/*0.190* | RUMF31P7 | 0.086/*0.190* |

PF140700C

*RUMC21BD*

PF140725B

*RUMC21F7*

**Relays for standard applications, with lockable test button and LED** (sold in lots of 10)

| | | | | | |
|---|---|---|---|---|---|
| **Cylindrical** | ⎓ 12 | RUMC22JD | 0.086/*0.190* | RUMC32JD | 0.086/*0.190* |
| | ⎓ 24 | RUMC22BD | 0.086/*0.190* | RUMC32BD | 0.086/*0.190* |
| | ⎓ 48 | RUMC22ED | 0.086/*0.190* | RUMC32ED | 0.086/*0.190* |
| | ⎓ 60 | – | – | RUMC32ND | 0.086/*0.190* |
| | ⎓ 110 | RUMC22FD | 0.086/*0.190* | RUMC32FD | 0.086/*0.190* |
| | ⎓ 125 | – | – | RUMC32GD | 0.086/*0.190* |
| | ∿ 24 | RUMC22B7 | 0.086/*0.190* | RUMC32B7 | 0.086/*0.190* |
| | ∿ 48 | RUMC22E7 | 0.086/*0.190* | RUMC32E7 | 0.086/*0.190* |
| | ∿ 120 | RUMC22F7 | 0.086/*0.190* | RUMC32F7 | 0.086/*0.190* |
| | ∿ 230 | RUMC22P7 | 0.086/*0.190* | RUMC32P7 | 0.086/*0.190* |
| **Flat** (Faston type) | ⎓ 12 | RUMF22JD | 0.086/*0.190* | RUMF32JD | 0.086/*0.190* |
| | ⎓ 24 | RUMF22BD | 0.086/*0.190* | RUMF32BD | 0.086/*0.190* |
| | ⎓ 48 | RUMF22ED | 0.086/*0.190* | RUMF32ED | 0.086/*0.190* |
| | ⎓ 110 | RUMF22FD | 0.086/*0.190* | RUMF32FD | 0.086/*0.190* |
| | ∿ 24 | RUMF22B7 | 0.086/*0.190* | RUMF32B7 | 0.086/*0.190* |
| | ∿ 48 | RUMF22E7 | 0.086/*0.190* | RUMF32E7 | 0.086/*0.190* |
| | ∿ 120 | RUMF22F7 | 0.086/*0.190* | RUMF32F7 | 0.086/*0.190* |
| | ∿ 230 | RUMF22P7 | 0.086/*0.190* | RUMF32P7 | 0.086/*0.190* |

PF140708C

*RUMC32BD*

PF140735

*RUMF32F7*

# Zelio Electromechanical Relays
## Plug-in relays
## RUM universal relays



PF140733B

*RUZSC3M + Relay RUMC3●●●*

PF106027

*RUW241P7*

PF516229

*RUW101MW*

### Sockets

| Contact terminal arrangement | Connection | Relay type | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| **Mixed** | Screw connector | RUMC2●●● | 10 | **RUZC2M** | 0.054/*0.119* |
| | | RUMC3●●● | 10 | **RUZC3M** | 0.054/*0.119* |
| **Separate** | Screw connector | RUMC2●●● | 10 | **RUZSC2M** | 0.095/*0.209* |
| | | RUMC3●●● | 10 | **RUZSC3M** | 0.100/*0.220* |
| | | RUMF2●●● | 10 | **RUZSF3M** | 0.095/*0.209* |
| | | RUMF3●●● | | | |

### Protection modules

| Description | For use with | Voltage V | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| **Diode** | All RUM sockets | ⎓ 6…250 | 10 | **RUW240BD** | 0.004/*0.009* |
| **RC circuit** | All RUM sockets | ∿ 110…240 | 10 | **RUW241P7** | 0.004/*0.009* |
| **Varistor** | All RUM sockets | ∿/⎓ 24 | 10 | **RUW242B7** | 0.004/*0.009* |
| | | ∿/⎓ 240 | 10 | **RUW242P7** | 0.004/*0.009* |

### Timer module

| Description | For use with | Voltage V | Reference | Weight kg/*lb* |
|---|---|---|---|---|
| **Multifunction** | All RUM sockets | ∿/⎓ 24… 240 | **RUW101MW** | 0.020/*0.044* |

### Timing relays

| Description | For use with | Reference | Weight kg/*lb* |
|---|---|---|---|
| **2 timed CO contacts** (single-function or multifunction) | RUZC●M sockets | **RE48A●●** *(1)* | – |

*(1) Please refer to "Zelio Time timing relays" catalog.*


DF-536485

*RUZC200*


DF-535203

*RUZS2*

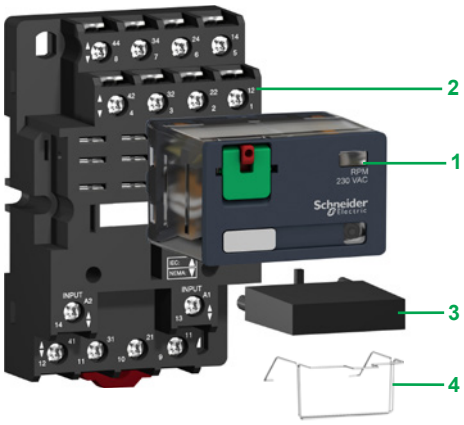
## Accessories

| Description | For use with | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|
| **Metal maintaining clamp** | All RUM sockets | 10 | RUZC200 | 0.001/*0.002* |
| **2-pole bus jumper** (Ith: 5 A) | All RUM sockets with separate contacts | 10 | RUZS2 | 0.005/*0.011* |
| **Clip-in legends** | All relays (sheet of 108 legends) | 10 | RXZL520 | 0.086/*0.190* |
| | All RUM sockets with separate contacts | 10 | RUZL420 | 0.001/*0.002* |

2

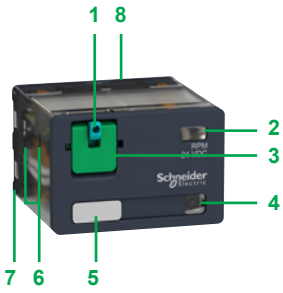
# Zelio Electromechanical Relays
## Plug-in relays
## RPM power relays





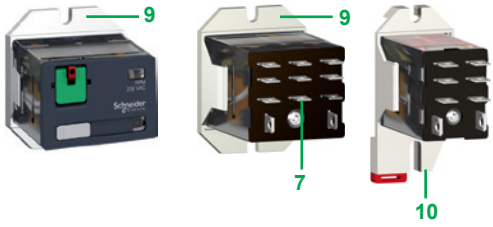

## Presentation of the range

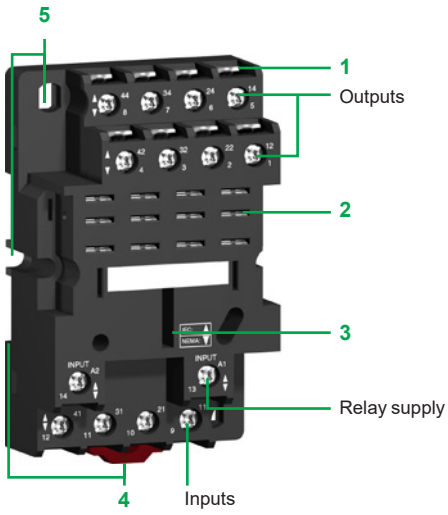
The RPM power relay range comprises:
1 15 A relay with 1, 2, 3, and 4 CO contacts
2 Sockets with mixed contact terminals
3 Protection modules (diode, RC circuit, or varistor) or 1 timer module (these protection modules are common to all sockets except for the timer module, which can be used on 3-pole or 4-pole sockets only)
4 Metal maintaining clamp for single-contact relays




## Relay description

1 Spring-return pushbutton for testing the contacts (green: ⎓, red: ∿)
2 Mechanical “relay status” indicator
3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes
4 LED (depending on version) indicating the relay status
5 Removable legend for relay identification
6 4 notches for rail mounting adapter or panel mounting adapter with mounting lugs
7 5, 8, 11, or 14 Faston type pins
8 Area by which the product can be easily gripped
9 Mounting adapter enabling direct mounting of the relay on a panel
10 Mounting adapter enabling direct mounting of the relay on a ⊔ rail




## Socket description

**Sockets with mixed contact terminals** *(1)*

1 Connection by screw clamp terminals
2 5, 8, 11, or 14 female contacts for the relay pins
3 Location for protection modules or the timer module
4 Locating slot for mounting on rail with mounting clip
5 2 or 4 holes for panel mounting

*(1) The inputs are mixed with the relay supply, with the outputs being located on the opposite side of the socket.*

# Zelio Electromechanical Relays
## Plug-in relays
## RPM power relays



PF142819B

*RPM41BD*

PF142818B

*RPM41P7*

PF142821B

*RPM42BD*

PF142820B

*RPM42P7*

### Power relays for customer assembly

**Power relays without LED** (sold in lots of 10)

| Control circuit voltage V | Number and type of contacts - Thermal current (Ith) 1 CO - 15 A | | 2 CO - 15 A | | 3 CO - 15 A | | 4 CO - 15 A | |
|---|---|---|---|---|---|---|---|---|
| | Unit reference | Weight kg/*lb* | Unit reference | Weight kg/*lb* | Unit reference | Weight kg/*lb* | Unit reference | Weight kg/*lb* |
| ⎓ 12 | RPM11JD | 0.026/*0.057* | RPM21JD | 0.036/*0.079* | RPM31JD | 0.054/*0.119* | RPM41JD | 0.071/*0.157* |
| ⎓ 24 | RPM11BD | 0.026/*0.057* | RPM21BD | 0.036/*0.079* | RPM31BD | 0.054/*0.119* | RPM41BD | 0.071/*0.157* |
| ⎓ 48 | RPM11ED | 0.026/*0.057* | RPM21ED | 0.036/*0.079* | RPM31ED | 0.054/*0.119* | RPM41ED | 0.071/*0.157* |
| ⎓ 110 | RPM11FD | 0.026/*0.057* | RPM21FD | 0.036/*0.079* | RPM31FD | 0.054/*0.119* | RPM41FD | 0.071/*0.157* |
| ∿ 24 | RPM11B7 | 0.026/*0.057* | RPM21B7 | 0.036/*0.079* | RPM31B7 | 0.054/*0.119* | RPM41B7 | 0.071/*0.157* |
| ∿ 48 | RPM11E7 | 0.026/*0.057* | RPM21E7 | 0.036/*0.079* | RPM31E7 | 0.054/*0.119* | RPM41E7 | 0.071/*0.157* |
| ∿ 120 | RPM11F7 | 0.026/*0.057* | RPM21F7 | 0.036/*0.079* | RPM31F7 | 0.054/*0.119* | RPM41F7 | 0.071/*0.157* |
| ∿ 230 | RPM11P7 | 0.026/*0.057* | RPM21P7 | 0.036/*0.079* | RPM31P7 | 0.054/*0.119* | RPM41P7 | 0.071/*0.157* |

**Power relays with LED** (sold in lots of 10)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ⎓ 12 | RPM12JD | 0.026/*0.057* | RPM22JD | 0.036/*0.079* | RPM32JD | 0.054/*0.119* | RPM42JD | 0.071/*0.157* |
| ⎓ 24 | RPM12BD | 0.026/*0.057* | RPM22BD | 0.036/*0.079* | RPM32BD | 0.054/*0.119* | RPM42BD | 0.071/*0.157* |
| ⎓ 48 | RPM12ED | 0.026/*0.057* | RPM22ED | 0.036/*0.079* | RPM32ED | 0.054/*0.119* | RPM42ED | 0.071/*0.157* |
| ⎓ 110 | RPM12FD | 0.026/*0.057* | RPM22FD | 0.036/*0.079* | RPM32FD | 0.054/*0.119* | RPM42FD | 0.071/*0.157* |
| ∿ 24 | RPM12B7 | 0.026/*0.057* | RPM22B7 | 0.036/*0.079* | RPM32B7 | 0.054/*0.119* | RPM42B7 | 0.071/*0.157* |
| ∿ 48 | RPM12E7 | 0.026/*0.057* | RPM22E7 | 0.036/*0.079* | RPM32E7 | 0.054/*0.119* | RPM42E7 | 0.071/*0.157* |
| ∿ 120 | RPM12F7 | 0.026/*0.057* | RPM22F7 | 0.036/*0.079* | RPM32F7 | 0.054/*0.119* | RPM42F7 | 0.071/*0.157* |
| ∿ 230 | RPM12P7 | 0.026/*0.057* | RPM22P7 | 0.036/*0.079* | RPM32P7 | 0.054/*0.119* | RPM42P7 | 0.071/*0.157* |

PF142831B

*RPZF4 + Relay RPM42P7*

PF106044

*RUW24●●●*

## Sockets

| Contact terminal arrangement | Connection | Relay type | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| **Mixed** | Screw clamp terminals | RPM1●●● | 10 | **RPZF1** | 0.042/*0.093* |
| | | RPM2●●● | 10 | **RPZF2** | 0.054/*0.119* |
| | | RPM3●●● | 10 | **RPZF3** | 0.072/*0.159* |
| | | RPM4●●● | 10 | **RPZF4** | 0.094/*0.207* |

## Protection modules

| Description | Voltage V | Socket type | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|---|
| **Diode** | ⎓ 6...250 | RPZF1<br>RPZF2 | 20 | **RXM040W** | 0.003/*0.007* |
| | | RPZF3<br>RPZF4 | 10 | **RUW240BD** | 0.004/*0.009* |
| **RC circuit** | ∿ 24...60 | RPZF1<br>RPZF2 | 20 | **RXM041BN7** | 0.010/*0.022* |
| | ∿ 110...240 | RPZF1<br>RPZF2 | 20 | **RXM041FU7** | 0.010/*0.022* |
| | | RPZF3<br>RPZF4 | 10 | **RUW241P7** | 0.004/*0.009* |
| **Varistor** | ∿/⎓ 6...24 | RPZF1<br>RPZF2 | 20 | **RXM021RB** | 0.030/*0.066* |
| | ∿/⎓ 24...60 | RPZF1<br>RPZF2 | 20 | **RXM021BN** | 0.030/*0.066* |
| | ∿/⎓ 110...240 | RPZF1<br>RPZF2 | 20 | **RXM021FP** | 0.030/*0.066* |
| | ∿/⎓ 24 | RPZF3<br>RPZF4 | 10 | **RUW242B7** | 0.004/*0.009* |
| | ∿/⎓ 240 | RPZF3<br>RPZF4 | 10 | **RUW242P7** | 0.004/*0.009* |

## Timer module *(1)*

| Description | Voltage V | Socket type | Reference | Weight kg/*lb* |
|---|---|---|---|---|
| **Multifunction** | ∿/⎓ 24… 240 | RPZF3<br>RPZF4 | **RUW101MW** | 0.020/*0.044* |

*(1) See timer module description (selection of functions and time delays) on www.schneider-electric.com.*

# Zelio Electromechanical Relays
## Plug-in relays
## RPM power relays



PF106045

*RPZ1DA*

PF106046

*RPZ4FA*

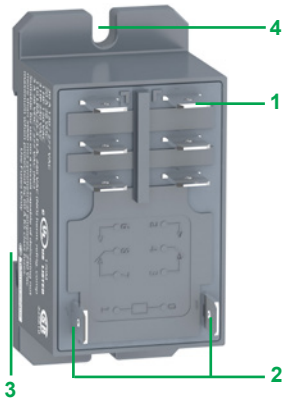
### Accessories

| Description | For use with | Sold in lots of | Unit reference | Weight kg/*lb* |
|---|---|---|---|---|
| **Metal maintaining clamp** (for single-pole relays) | RPZF1 | 20 | **RPZR235** | 0.001/*0.002* |
| **Mounting adapters for ⊔ rail** *(1)* | RPM1●●● | 20 | **RPZ1DA** | 0.004/*0.009* |
| | RPM2●●● | 20 | **RXZE2DA** | 0.004/*0.009* |
| | RPM3●●● | 20 | **RPZ3DA** | 0.004/*0.009* |
| | RPM4●●● | 20 | **RPZ4DA** | 0.006/*0.013* |
| **Mounting adapters with panel mounting lugs** | RPM1●●● | 20 | **RPZ1FA** | 0.002/*0.004* |
| | RPM2●●● | 20 | **RXZE2FA** | 0.002/*0.004* |
| | RPM3●●● | 20 | **RPZ3FA** | 0.003/*0.007* |
| | RPM4●●● | 20 | **RPZ4FA** | 0.004/*0.009* |
| **Clip-in legends** (sheet of 108 legends) | All relays | 10 | **RXZL520** | 0.080/*0.176* |
| **Clip-in legends** (sheet of 16 legends) | All relays | 10 | **RGZL520** | 0.080/*0.176* |

*(1) Test button becomes inaccessible.*

# Zelio Electromechanical Relays
## Relays with clamp mounting
## RPF power relays






### Presentation of the range

RPF power relays with 2 CO or 2 NO contacts comprise:

1 4 or 6 Faston type pins
2 2 relay supply pins
3 Locating slot for mounting on DIN rail
4 2 holes for panel mounting

# Zelio Electromechanical Relays

## Relays with clamp mounting

## RPF power relays

PF120361C

*RPF2A●●*

### Power relays

| Control circuit voltage V | Sold in lots | Number and type of contacts - Thermal current (Ith) 2 NO - 30 A *(1)* Unit reference | 2 CO - 30 A *(1)* Unit reference | Weight kg/*lb* |
|---|---|---|---|---|
| ⎓ 12 | 10 | RPF2AJD | RPF2BJD | 0.082/ *0.181* |
| ⎓ 24 | 10 | RPF2ABD | RPF2BBD | 0.082/ *0.181* |
| ∿ 24 | 10 | RPF2AB7 | RPF2BB7 | 0.082/ *0.181* |
| ∿ 120 | 10 | RPF2AF7 | RPF2BF7 | 0.082/ *0.181* |
| ∿ 230 | 10 | RPF2AP7 | RPF2BP7 | 0.082/ *0.181* |

*(1) 30 A when mounted with 13 mm (0.51 in.) gap between two relays and 25 A when mounted side by side without a gap.*

# Zelio Electromechanical Relays
Plug-in relays



## Relays

### Contact types

| Symbol | Configuration | EU | USA |
|---|---|---|---|
|  | Make contact (Normally Open) | NO | SPST-NO<br>DPST-NO<br>nPST-NO *(1)* |
|  | Break contact (Normally Closed) | NC | SPST-NC<br>DPST-NC<br>nPST-NC *(1)* |
|  | Changeover Contact | CO | SPDT<br>DPDT<br>nPDT *(1)* |

### Utilization categories

| Category | Type of current | Applications |
|---|---|---|
| **AC-1** | ∿ 1-phase<br>∿ 3-phase | Resistive or slightly inductive loads |
| **AC-3** | ∿ 3-phase | Starting and braking of squirrel cage motors; reversing direction of rotation only after stopping of motor |
| **AC-4** | ∿ 3-phase | Starting of squirrel cage motors, inching; plugging, reversing direction of rotation |
| **DC-1** | ⎓ | Resistive or slightly inductive loads *(2)* |
| **AC-14** | ∿ 1-phase | Control of electromagnetic loads (< 72 VA), auxiliary control relays, power contactors, electromagnetic solenoid valves, and electromagnets |
| **AC-15** | ∿ 1-phase | Control of electromagnetic loads (> 72 VA), auxiliary control relays, power contactors, electromagnetic solenoid valves, and electromagnets |
| **DC-13** | ⎓ | Control of electromagnetic loads, auxiliary control relays, power contactors, magnetic solenoid valves, and electromagnets |

### Protection categories

| Category | Explanation | Condition |
|---|---|---|
| **RT 0** | Unenclosed relay | Relay not provided with a protective case |
| **RT I** | Dust protected relay | Relay provided with a case that helps to protect its mechanism from dust |
| **RT II** | Flux-proof relay | Relay capable of being automatically soldered without allowing the migration of solder fluxes beyond the intended areas |
| **RT III** | Wash-tight relay | Relay capable of being automatically soldered and then washed to remove flux residues and minimize the possibility of ingress of flux or washing solvents |
| **RT IV** | Sealed relay | Relay provided with a case that has no venting to the outside atmosphere |
| **RT V** | Hermetically sealed relay | Sealed relay with an enhanced level of sealing |

*(1) n = number of contacts.*
*(2) The switchable voltage can be doubled, for an equal current, by connecting 2 contacts in series.*

## Protection modules

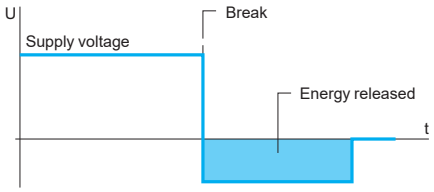
Whenever an inductive load is de-energized (coil of a relay or of a contactor), an overvoltage appears at its terminals. This voltage peak can reach several thousand volts and a frequency of several MHz.
It is likely to disturb the operation of automation systems that contain electronic devices.
Protection modules are used to reduce the voltage peak on de-energization and therefore limit the energy of interference signals to a level that will not disturb surrounding coils and electronic devices.

These modules are used to help reduce the risk of:
- electromagnetic compatibility problems
- deterioration of contact materials
- damage to insulation due to overvoltage
- damage to electronic components

### Diode protection module (with or without LED)

■ Advantages
- accumulation of energy allowing current to flow in the same direction
- absence of any voltage peaks at the coil terminals
- low cost

■ Disadvantages
- increase in relay drop-out time (3 to 4 times the usual time)
- no polarity protection
- de-energization of the relay

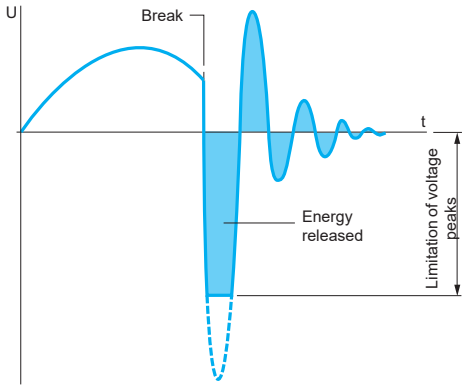



*Coil voltage with diode protection module (⎓ only)*

### Protection module with varistor

■ Advantages
- can be used with ∿ and ⎓ supply
- voltage peak limited to about 2 Un
- little effect on relay drop-out time

■ Disadvantages
- no modification of coil's own oscillating frequency
- limitation of switching frequency

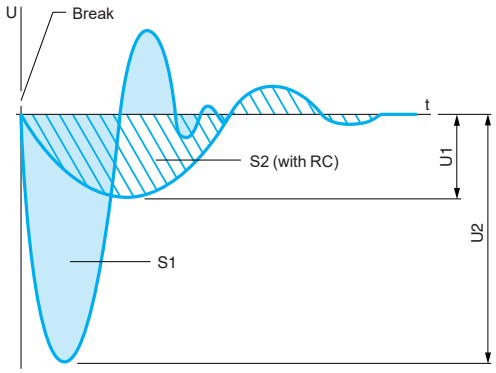



*Coil voltage with varistor protection module (∿ and ⎓)*

### Protection module with RC circuit

■ Advantages
- coil oscillating frequency reduced to about 150 Hz
- voltage peak limited to 3 Un
- little effect on relay drop-out time

■ Disadvantages
- no protection for low voltages




*Coil voltage with RC circuit protection module (∿ only)*

S1 = S2 = Energy released

# Index

## Index

# Zelio Electromechanical Relays
## Product reference Index

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www.schneider-electric.com/relays



Design: Schneider Electric
Photos: Schneider Electric

**Schneider Electric Industries SAS**
Head Office
35, rue Joseph Monier - CS 30323
F-92500 Rueil-Malmaison Cedex
France

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