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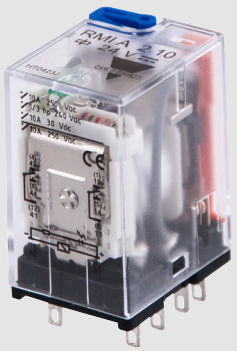
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# Midi Industrial Relay
# Type RMI. 2-10 10A
# Monostable



RMI A 210

- High switching power
- Small size
- 2 poles configuration
- AC coils 6 to 230VAC
- DC coils 5 to 110VDC
- Matched sockets available
- Standard with LED, Push with arm and Flag
- IP 40
- Compliant with the CE low voltage directive
- TÜV, UL, CSA, IMQ approved

## Product Description

The RMI relay (relay mini-industrial) can be used for a wide range of industrial applications.

Available in 2 change-over contact configuration.
PCB, solder and plug-in terminals.

## Approvals

TÜV E73404 051377

## Ordering Key

**RMI A 210 12VDC /1**

- **Type**
- **Terminal version**
- **Contact code**
- **Coil code**
- **Options**

**Terminal version:** A = Soldering terminals
B = PCB terminals

Box content: 25 relays
Box size: (W 125 x D 165 x H 50) mm Weight: 850g
(W 4.92 x D 6.50 x H 1.97) inches Weight: 29.98oz

## Type Selection

| Contact configuration | | Contact rating | Contact code |
|---|---|---|---|
| 2 change over contacts | (DPDT {2-form C}) | 10A | **210** |

## Coil Characteristics, DC

| Coil Code | Nominal voltage VDC | @ +20°C (+68°F) | | Coil resistance Ω |
|---|---|---|---|---|
| | | Pick-up voltage VDC | Drop-out voltage DVC | |
| **5VDC** | 5 | 4.0 | 0.5 | 28.0 ±10% |
| **6VDC** | 6 | 4.8 | 0.6 | 40.0 ±10% |
| **12VDC** | 12 | 9.6 | 1.2 | 160.0 ±10% |
| **24VDC** | 24 | 19.2 | 2.4 | 640.0 ±10% |
| **48VDC** | 48 | 38.4 | 4.8 | 2560.0 ±15% |
| **60VDC** | 60 | 48.0 | 6.0 | 11000.0 ±15% |
| **110VDC** | 110 | 88.0 | 11.0 | 12250 ±15% |

Specifications are subject to change without notice. Pictures are just an example. For special features and/or customization, please ask to our sales network.

CARLO GAVAZZI

## Coil Characteristics, AC

| Coil Code | Nominal voltage VAC | @ +20°C (+68°F) | | Coil resistance Ω |
|---|---|---|---|---|
| | | Pick-up voltage VAC | Drop-out voltage VAC | |
| **6VAC** | 6 | 4.8 | 1.8 | 11 ±10% |
| **12VAC** | 12 | 9.6 | 3.6 | 44 ±10% |
| **24VAC** | 24 | 19.2 | 7.2 | 177 ±10% |
| **48VAC** | 48 | 38.4 | 14.4 | 708 ±10% |
| **115/120VAC** | 110-120 | 96.0 | 36.0 | 4080 ±15% |
| **230VAC** | 220-240 | 176.0 | 66.0 | 16300 ±15% |

## Options

**Nil** = Standard with Push Arm -LED (A1+) (A2-)- Flag
**/0** = Diode against polarity reverse + free-wheeling Diode (A1+) (A2-)
**/1** = Without LED
**/2** = Without Flag
**/3** = Without Push Arm
**/4** = Plated Contacts Au > 5µm
**/5** = Flash Gilded Contacts Au > 1µm
**/6** = Free-Wheeling Diode (A1+) (A2-)
**/7** = Free-Wheeling Diode (A1-) (A2+)

## Contact Characteristics

| | | | |
|---|---|---|---|
| **Contact rating** (with resistive load) | **10A - 250VAC / 30VDC** | **Minimum Current** Min. applicable load /4 and /5 versions | **5mA @ 12VDC** **1mA @ 6VDC** |
| **UL rating** | **10A - 250VAC / 30VDC** **1/3HP @ 240VAC** | **Max. switch. voltage** | **250VAC / 30VDC @ 10A** |
| **Max. rating** | **10A - 250VAC / 30VDC** | **Max. switch. power** | **2500VA / 300W @ 10A** |
| **Material** | **AgCe** | **Life** | |
| **Initial contact resistance** | **50mΩ (@ 1A 6VDC)** | Electrical life<br>Mechanical life | **1x10$^5$ cycles (1800 Ops/h)**<br>**2x10$^7$ cycles (1800 Ops/h)** |

## Insulation

| | | | |
|---|---|---|---|
| **Dielectric strength** (1min.) | | **Insulation according to EN61810-5** | |
| Between coil and contacts | **1500 VAC** | Rated insulation voltage | **250V** |
| Between open contacts | **1000 VAC** | Impulsive insulation voltage | **3.6kV** |
| Contact/Contact | **1500 VAC** | Pollution degree | **2** |
| **Insulation resistance** | **1.000MΩ - 500VAC** | Overvoltage category | **III** |

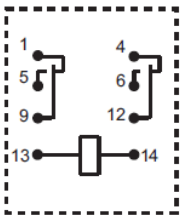
## General Data

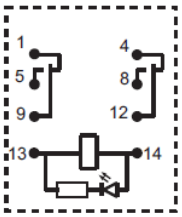
| | | | |
|---|---|---|---|
| **Nominal coil power** | **DC0.9~1.1W/AC0.9~1.4VA** | **Shock resistance** | |
| **Operating time** (At nominal voltage) | **20ms max.** | Functional<br>Destructive | **100m/s$^2$ /10g 11ms**<br>**1000m/s$^2$ /100g** |
| **Release time** (At nominal voltage) | **20ms max.** | **Humidity** | **35% to 95% RH non-condensing** |
| **Ambient temperature** | **-55° to +70°C (-67° to +158°F)** | **Terminals** | **PCB or Soldering Lugs (Plug-in)** |
| **Vibration resistance** | **10 to 55Hz 1.0mm (0.04")** | **Weight** | **~37g (~1.30oz)** |
| **Construction** | **Dust cover** | | |


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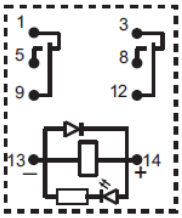
## Wiring Diagram

RMIA210 10A



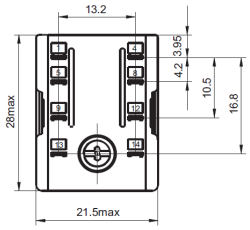

With LED

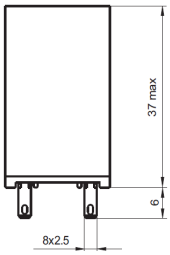


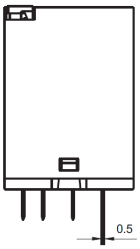

DC, with fly-wheel diode

## Dimensions mm/inches

RMIA210 10A

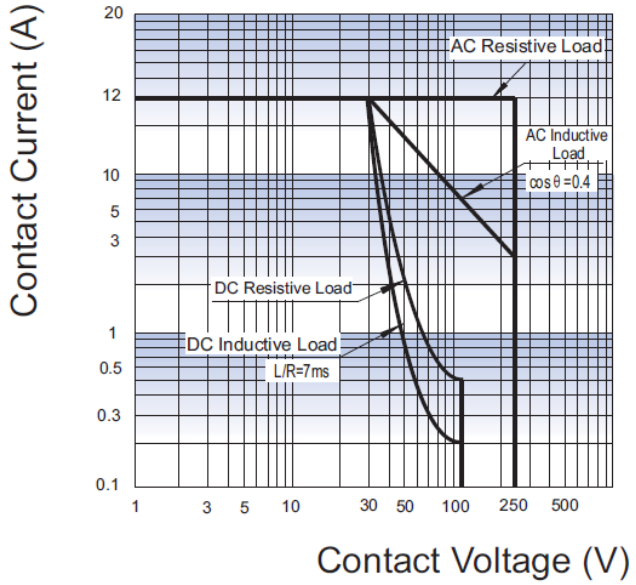



## Diagrams

RMIA210 10A




## Bases and Sockets

DIN rail sockets codes are **ZMI2NA, ZMI4NA, ZMI2SA, ZMI4SA, ZMI2GA, ZMI4GA, ZR08** and **ZDM14A** details and specifications from page 45 to 49 of industrial relays catalogue.
PCB sockets codes are **ZC15/2A, ZC15/4A, ZC15/2** and **ZC15/4** details and specifications on page 51 of industrial relays catalogue.

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