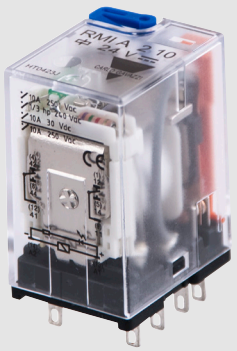
Midi Industrial Relay
Type RMI. 2-10 10A
Monostable



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%

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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 Mechanical life	**1x10^5 cycles (1800 Ops/h)** **2x10^7 cycles (1800 Ops/h)**

Insulation

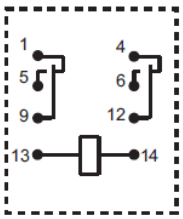
Dielectric strength (1min.)		**Insulation according to EN61810-5**	
Between coil and contacts	**1500 VAC**	Rated insulation voltage	**250V**
Between open contacts	**1000 VAC**	Impulsive insulation voltage	**3.6kV**
Contact/Contact	**1500 VAC**	Pollution degree	**2**
Insulation resistance	**1.000MΩ -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

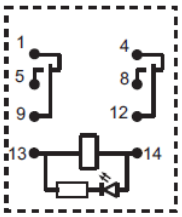
General Data

Nominal coil power	**DC0.9~1.1W/AC0.9~1.4VA**	**Shock resistance**	
Operating time (At nominal voltage)	**20ms max.**	Functional Destructive	**100m/s^2 /10g 11ms** **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**		

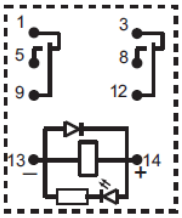
Wiring Diagram

RMIA210 10A





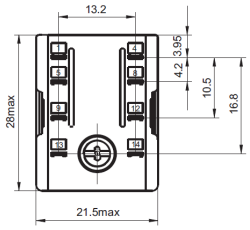
With LED

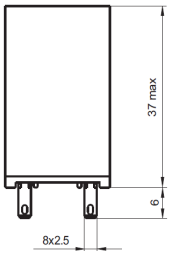


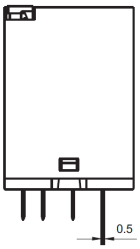
DC, with fly-wheel diode

Dimensions mm/inches

RMIA210 10A

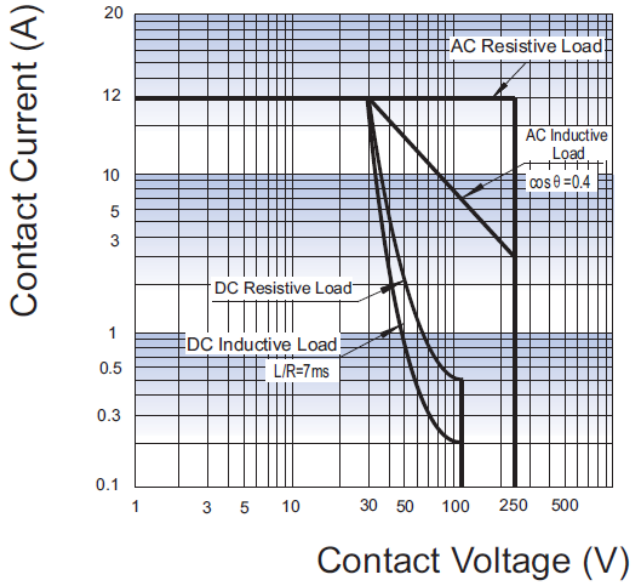






Diagrams

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.

Midi Industrial Relay
Type RMI. 4-5 5A
Monostable

RMI A 45

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- 4 poles configuration
- AC coils 6 to 230VAC
- DC coils 5 to 110VDC
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Product Description

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

Available in 4 change-over contact configuration.
PCB, solder and plug-in terminals.

Approvals

E73404 051377

Ordering Key

RMI A 45 12VDC /1

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- **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
4 change over contacts	(4PDT {4-form C})	5A	**45**

Coil Characteristics, DC

Coil Code	Nominal voltage VDC	@ +20°C (+68°F)		Coil resistance Ω
		Pick-up voltage VDC	Drop-out voltage VDC	
5VDC	5	4.0	0.5	28 ±10%
6VDC	6	4.8	0.6	40.0 ±10%
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60VDC	60	48.0	6.0	11000.0 ±15%
110VDC	110	88.0	11.0	12250.0 ±15%

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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%
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Options

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/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)	**5A - 250VAC**
UL rating	**5A - 250VAC/30VDC 1/6HP @ 240VAC**
Usually rating (1x10^5 ops)	**5A - 250VAC / 30VDC**
Max. rating (5x10^4 ops)	**5A - 250VAC / 30VDC**
Material	**$AgSn_2In_2O_3$**

Minimum Current Min. applicable load /4 and /5 versions	**5mA @ 12VDC 1mA @ 6VDC**
Initial contact resistance	**50mΩ (@ 1A 6VDC)**
Max. switch. voltage	**250VAC / 30VDC @ 5A**
Max. switch. power	**1250VA / 150W @ 5A**
Life Electrical life Mechanical life	**1x10^5 cycles (1800 Ops/h) 1x10^7 cycles (1800 Ops/h)**

Insulation

Dielectric strength (1min.) Between coil and contacts Between open contacts Contact/Contact	**1500VAC 1000VAC 1500VAC**
Initial insulation resistance	**1.000MΩ - 500VAC**

Insulation according to EN61810-5 Rated insulation voltage Impulsive insulation voltage Pollution degree Overvoltage category	**250V 2.2kV 2 II**

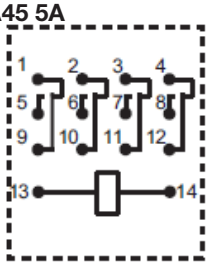
General Data

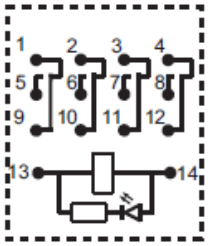
Nominal coil power	**DC0.9~1.1W/AC0.9~1.4VA**
Operating time (At nominal voltage)	**25ms max.**
Release time (At nominal voltage)	**25ms max.**
Ambient temperature	**-55° to +70°C (-67° to +158°F)**
Vibration resistance	**10 to 55Hz 1.5mm (0.06")**
Construction	**Dust cover**

Shock resistance Funktional Destructive	**100m/s^2/10g 1000m/s^2/100g**
Humidity	**35% to 95% RH non-condensing**
Terminals	**PCB or Soldering Lugs (Plug-in)**
Weight	**~37g (~1.30oz)**

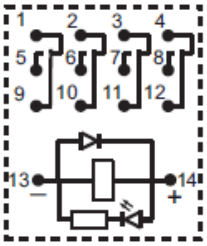
Wiring Diagram

RMIA45 5A





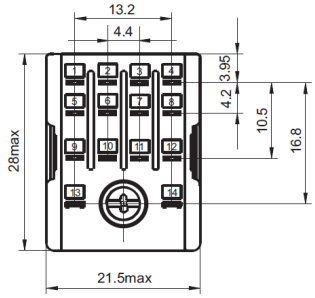
With LED

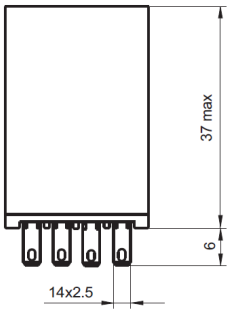


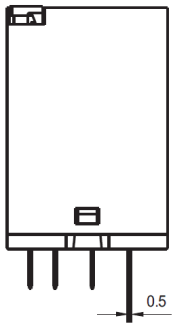
DC, with fly-wheel diode

Dimensions mm/inches

RMIA45 5A

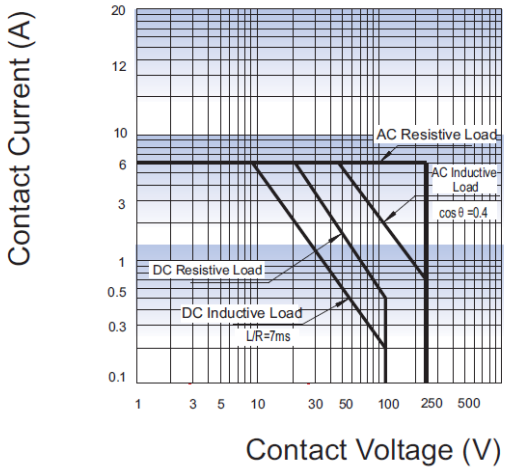






Diagrams

RMIA45 5A



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