

Midi Industrial Relay

Type RMI. 2-10 10A

Monostable

CARLO GAVAZZI



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



Type Selection

Contact configuration

2 change over contacts (DPDT {2-form C})

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

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	4000.0 ±15%
110VDC	110	88.0	11.0	12250 ±15%

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	1x10 ⁵ cycles (1800 Ops/h)
Initial contact resistance	50mΩ (@ 1A 6VDC)	Electrical life Mechanical life	2x10 ⁷ cycles (1800 Ops/h)

Insulation

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

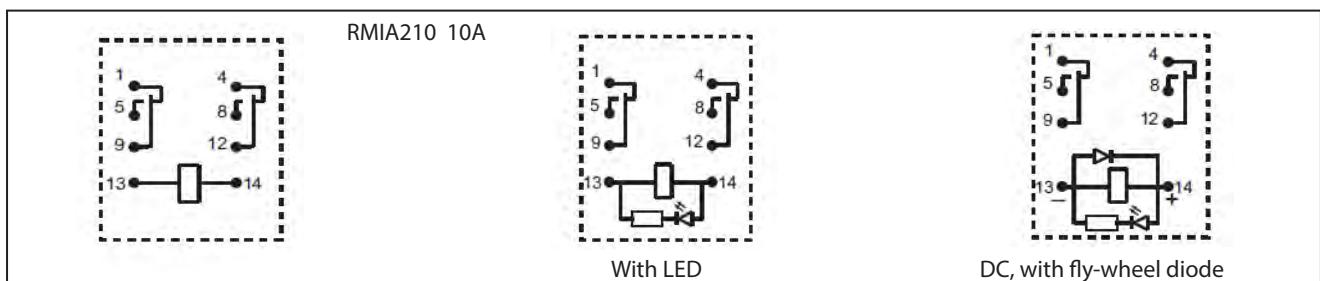
Insulation according to EN61810-5
Rated insulation voltage
Impulsive insulation voltage
Pollution degree
Overvoltage category

250V
3.6kV
2
III

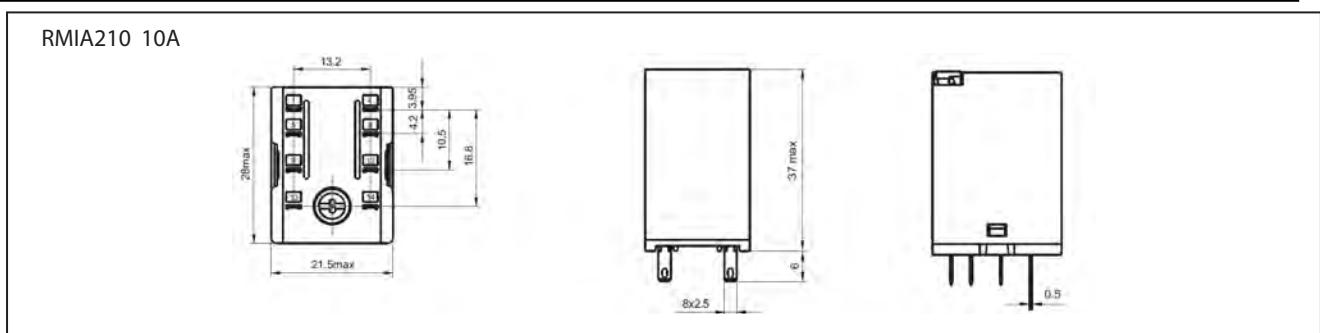
General Data

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

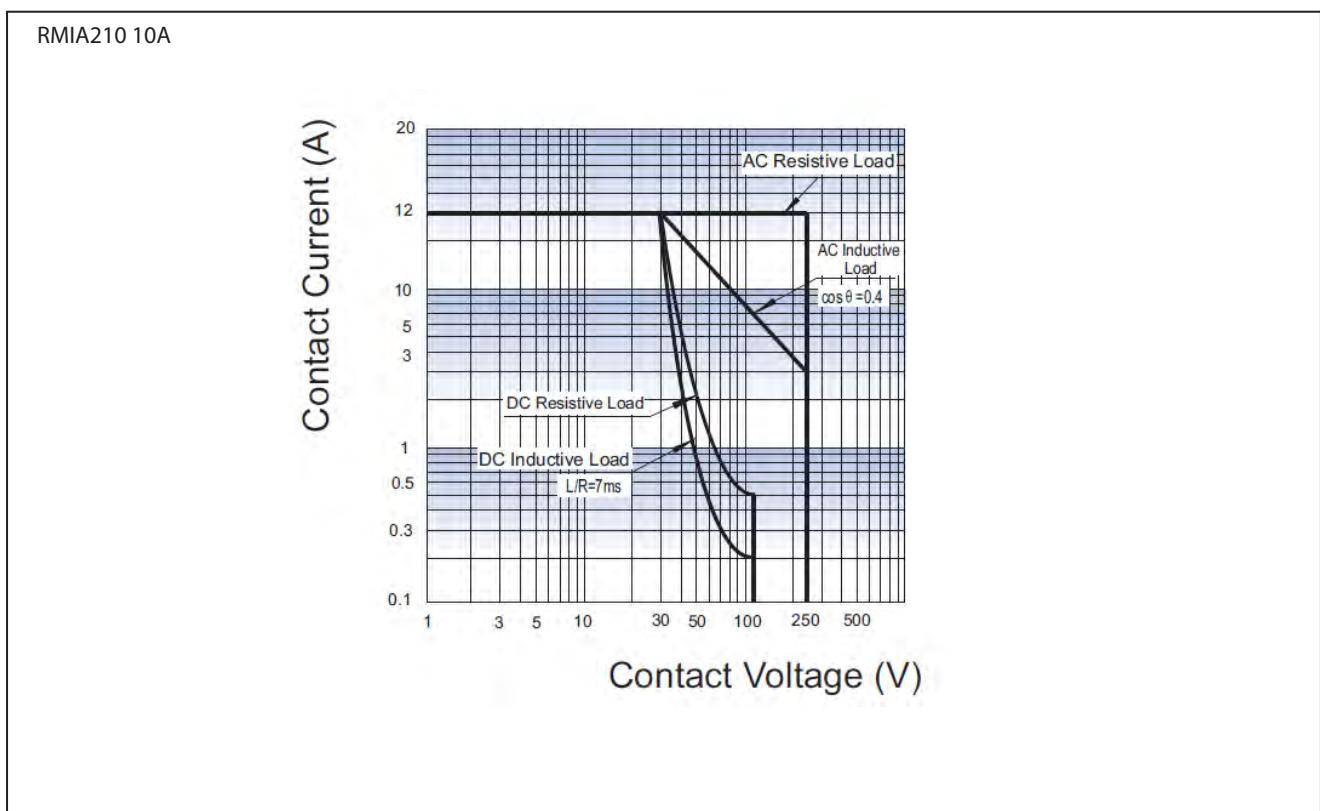
Wiring Diagram



Dimensions mm/inches



Diagrams



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.

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

Midi Industrial Relay

Type RMI. 4-5 5A

Monostable

CARLO GAVAZZI



RMI A 45

- High switching power
- Small size
- 4 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
- Complain 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 4 change-over contact configuration. PCB, solder and plug-in terminals.

Approvals



Ordering Key

RMI A 45 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

4 change over contacts (4PDT {4-form C})

Contact rating

5A

Contact code

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%
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	4000.0 ±15%
110VDC	110	88.0	11.0	12250.0 ±15%

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%
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Options

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/0 = Diode against polarity reverse + free-wheeling Diode (A1+) (A2-)
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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	Minimum Current	5mA @ 12VDC 1mA @ 6VDC
UL rating	5A - 250VAC/30VDC 1/6HP @ 240VAC	/4 and /5 versions	
Usually rating (1x10 ⁵ ops)	5A - 250VAC / 30VDC	Initial contact resistance	50mΩ (@ 1A 6VDC)
Max. rating (5x10 ⁴ ops)	5A - 250VAC / 30VDC	Max. switch. voltage	250VAC / 30VDC @ 5A
Material	AgSn ₂ In ₂ O ₃	Max. switch. power	1250VA / 150W @ 5A
		Life	1x10 ⁵ cycles (1800 Ops/h) 1x10 ⁷ cycles (1800 Ops/h)
		Electrical life	
		Mechanical life	

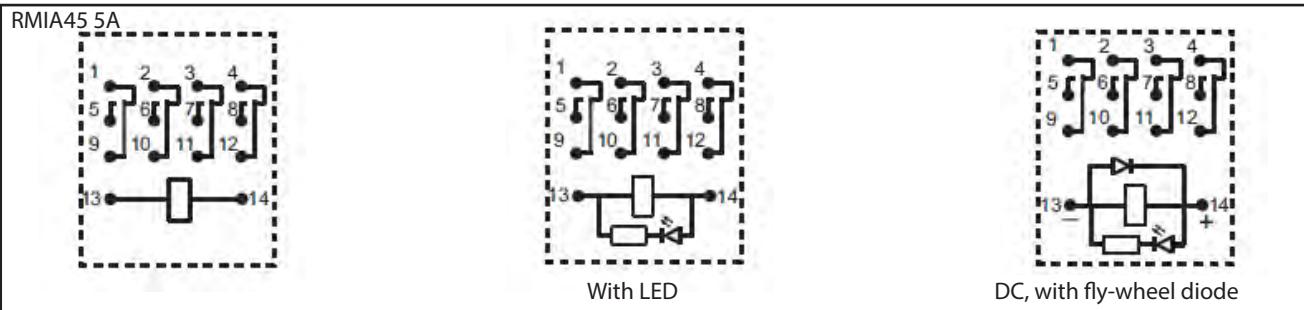
Insulation

Dielectric strength (1min.)	1500VAC	Insulation	according to EN61810-5
Between coil and contacts	1000VAC	Rated insulation voltage	250V
Between open contacts	1500VAC	Impulsive insulation voltage	2.2kV
Contact/Contact		Pollution degree	2
Initial insulation resistance	1.000MΩ - 500VAC	Overvoltage category	II

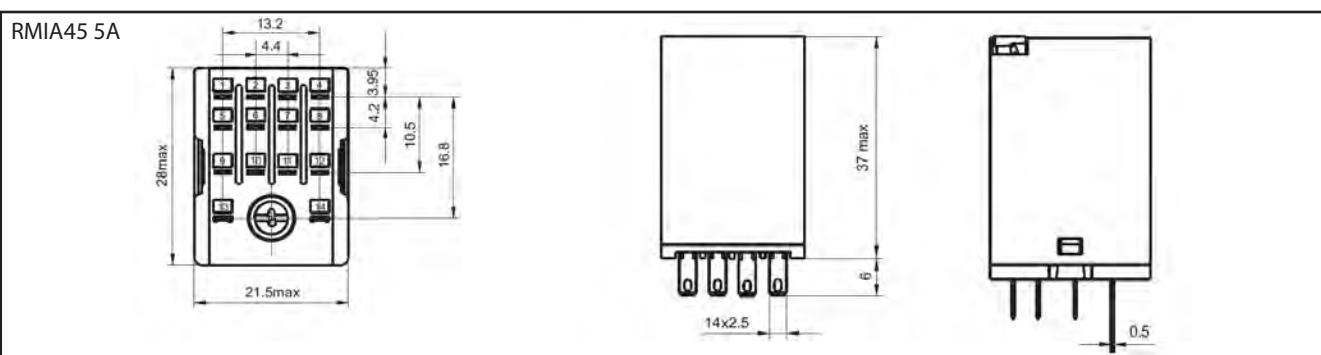
General Data

Nominal coil power	DC0.9~1.1W/AC0.9~1.4VA	Shock resistance	100m/s ² /10g 1000m/s ² /100g
Operating time (At nominal voltage)	25ms max.	Funktional	
Release time (At nominal voltage)	25ms max.	Destructive	
Ambient temperature	-55° to +70°C (-67° to +158°F)	Humidity	35% to 95% RH non-condensing
Vibration resistance	10 to 55Hz 1.5mm (0.06")	Terminals	PCB or Soldering Lugs (Plug-in)
Construction	Dust cover	Weight	~37g (~1.30oz)

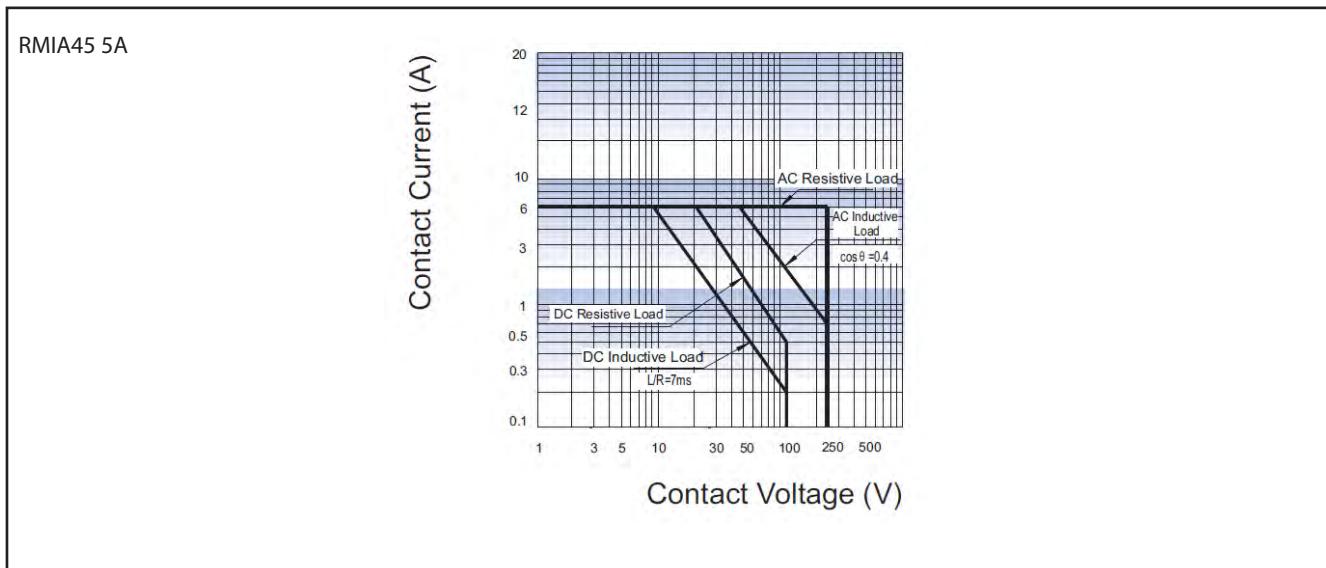
Wiring Diagram



Dimensions mm/inches



Diagrams



Bases and Sockets

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