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



RMI A 210 12VDC /1



- High switching power
- Small size
- 2 poles configuration
- AC coils 6 to 230VAC
- DC coils 5 to 110VDC

Ordering Key

- 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 miniindustrial) can be used for a wide range of industrial applications. Available in 2 change-over contact configuration. PCB, solder and plug-in terminals.

nge-over **Type**

Type
Terminal version
Contact code
Coil code

Options —

Terminal version: A = Soldering terminals

B = PCB terminals

Approvals











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	@ ·		C (+68°F)	
	Nominal voltage VDC	Pick-up voltage VDC	Drop-out voltage DVC	Coil resistance Ω
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%



Coil Characteristics, AC

		@ +20°0		
Coil Code	Nominal voltage VAC	Pick-up voltage VAC	Drop-out voltage VAC	Coil resistance Ω
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-) /5 = Flash Gilded Contacts Au > 1µm /1 = Without LED /6 = Free-Wheeling Diode (A1+) (A2-) /2 = Without Flag /7 = Free-Wheeling Diode (A1-) (A2+)

/2 = Without Flag /3 = Without Push Arm

/4 = Plated Contacts Au > 5µm

Contact Characteristics

Contact rating (with resistive load) UL rating	10A - 250VAC / 30VDC 10A - 250VAC / 30VDC	Minimum Current Min. applicable load /4 and /5 versions	5mA @ 12VDC 1mA @ 6VDC
3	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

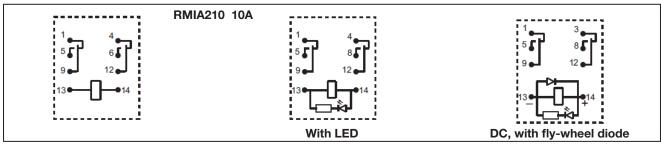
Dielectric strength (1min.) Between coil and contacts Between open contacts Contact/Contact	1500 VAC 1000 VAC 1500 VAC	Insulation according to EN61810-5 Rated insulation voltage Impulsive insulation voltage	250V 3.6kV
Insulation resistance	1.000MΩ - 500VAC	Pollution degree Overvoltage category	Z III

General Data

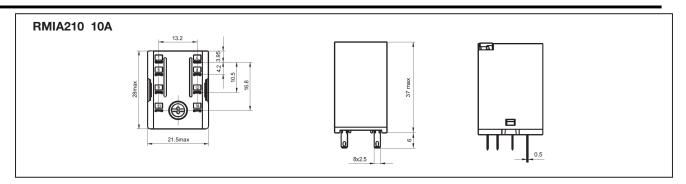
Nominal coil power	DC0.9~1.1W/AC0.9~1.4VA	Shock resistance	
Operating time (At nominal voltage)	20ms max.	Functional Destructive	100m/s²/10g 11ms 1000m/s²/100g
Release time (At nominal voltage)	20ms max.	Humidity	35% to 95% RH non-condensing
Ambient temperature	-55° to +70°C (-67° to +158°F)	Terminals	PCB or Soldering Lugs
Vibration resistance	10 to 55Hz 1.0mm (0.04")		(Plug-in)
Construction	Dust cover	Weight	~37g (~1.30oz)



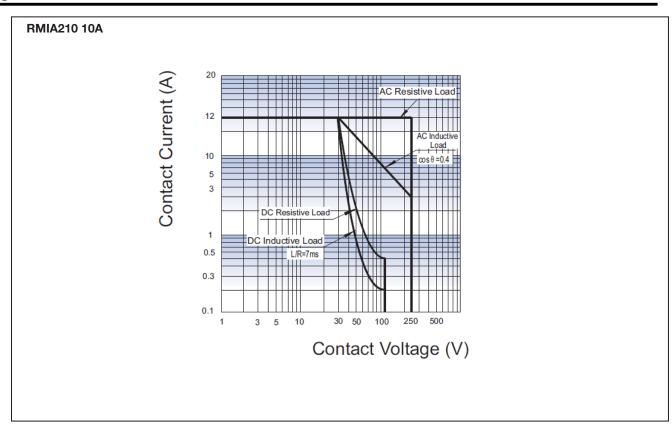
Wiring Diagram



Dimensions mm/inches



Diagrams



Bases and Sockets

DIN rail sockets codes are ZMI2NA, ZMI4NA, ZMI2SA, ZMI4SA, 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





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- Complain with the CE low voltage directive
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Product Description

The RMI relay (relay miniindustrial) 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

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

	Naminal	@ +20°C	@ +20°C (+68°F)		
Coil Code	Nominal voltage VDC	Pick-up voltage VDC	Drop-out voltage VDC	Coil resistance Ω	
5VDC	5	4.0	0.5	28 ±10%	
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Coil Characteristics, AC

Coil Code	Nominal	@ +20°C	@ +20°C (+68°F)	
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/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)				5mA @ 12VDC
UL rating		5A - 250VAC/30VDC	/4 and /5 versions	1mA @ 6VDC
•		1/6HP @ 240VAC	Initial contact resistance	50m Ω (@ 1A 6VDC)
Usually rating	(1x10 ⁵ ops)	5A - 250VAC / 30VDC	Max. switch. voltage	250VAC / 30VDC @ 5A
Max. rating	(5x10⁴ ops)	5A - 250VAC / 30VDC	Max. switch. power	1250VA / 150W @ 5A
Material		AgSn ₂ In ₂ O ₃	Life Electrical life Mechanical life	1x10⁵ cycles (1800 Ops/h) 1x10⁵ cycles (1800 Ops/h)

Insulation

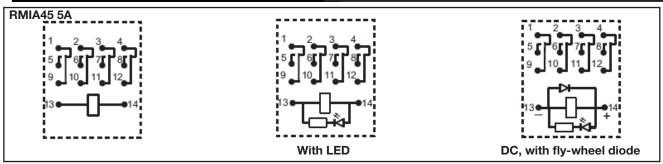
Dielectric strength (1min.) Between coil and contacts Between open contacts Contact/Contact	1500VAC 1000VAC 1500VAC	Insulation according to EN61810-5 Rated insulation voltage Impulsive insulation voltage	250V 2.2kV
Initial insulation resistance	1.000M Ω - 500VAC	Pollution degree Overvoltage category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

General Data

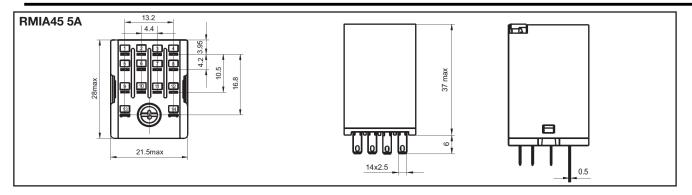
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Release time (At nominal voltage)	25ms max.	Humidity	35% to 95% RH non-condensing
Ambient temperature	-55° to +70°C (-67° to +158°F)	Terminals	PCB or Soldering Lugs
Vibration resistance	10 to 55Hz 1.5mm (0.06")		(Plug-in)
Construction	Dust cover	Weight	~37g (~1.30oz)



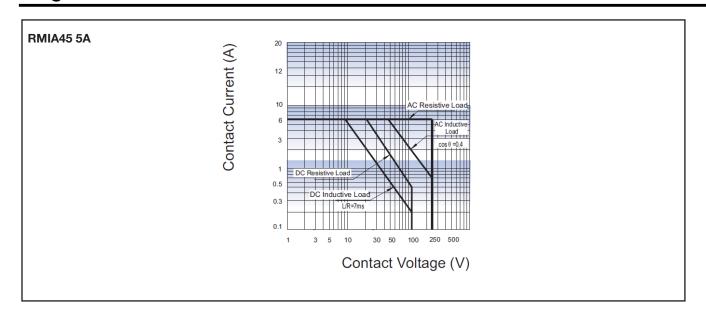
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