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





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

Ordering Key

RMI A 210 12VDC /1

Approvals











Terminal version: A = Soldering terminals B = PCB terminals

Box content: 20 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 code
PDT {2-form C})	10A	210
	PDT {2-form C})	Contact rating PDT {2-form C}) 10A

Coil Characteristics, DC

Coil Code	No maior al	@ +20°C	@ +20°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	4000.0 ±15%
110VDC	110	88.0	11.0	12250 ±15%



Coil Characteristics, AC

		@ +20		
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
	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

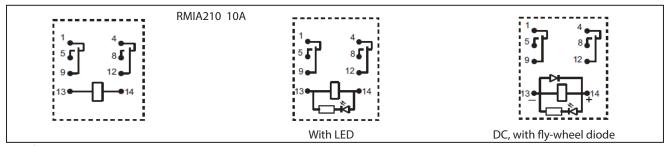
Dielectric strength (1min.) Between coil and contacts Between open contacts Contact/Contact	1500 VAC 1000 VAC 1500 VAC	Insulation according to EN61810-5 Rated insulation voltage Impulsive insulation voltage	250V 3.6kV
Insulation resistance	1.000MΩ - 500VAC	Pollution degree Overvoltage category	2 III

General Data

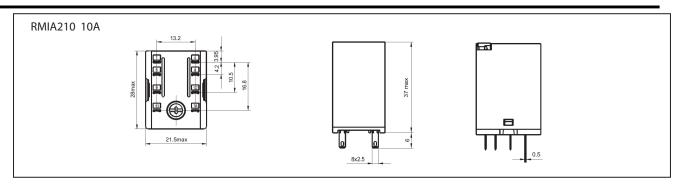
Nominal coil power	DC0.9~1.1W/AC0.9~1.4VA	Shock resistance	
Operating time (At nominal voltage)	20ms max.	Functional Destructive	100m/s²/10g 11ms 1000m/s²/100g
Release time		Humidity	35% to 95%
(At nominal voltage)	20ms max.		RH non-condensing
Ambient temperature	-55° to +70°C (-67° to +158°F)	Terminals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



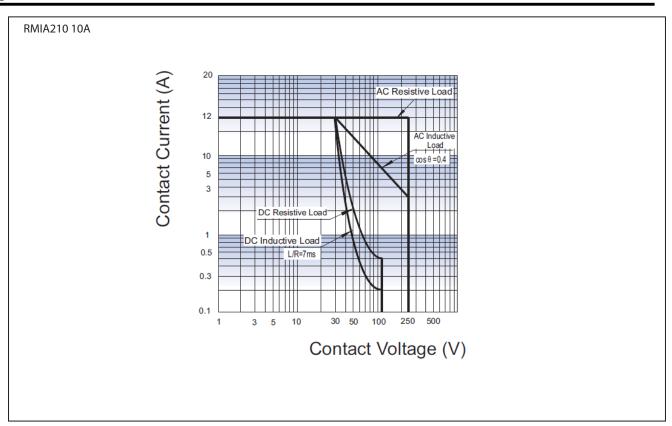
Wiring Diagram



Dimensions mm/inches



Diagrams



Bases and Sockets

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





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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

Type
Terminal version
Contact code
Coil code
Options

Terminal version: A = Soldering terminals

B = PCB terminals

Box content: 20 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

	Nominal @		C (+68°F)	
Coil Code	voltage VDC	Pick-up voltage VDC	Drop-out voltage VDC	Coil resistance Ω
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	4000.0 ±15%
110VDC	110	88.0	11.0	12250.0 ± 1 5%



Coil Characteristics, AC

Coil Code	Nominal	@ +20°C	Coil	
	voltage VAC	Pick-up voltage VAC	Drop-out voltage VAC	resistance Ω
6VAC	6	4.8	1.8	11 ±10%
12VAC	12	9.6	3.6	44 ±10%
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/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) UL rating				5mA @ 12VDC
		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	(5x10 ⁴ ops)	5A - 250VAC / 30VDC	Max. switch. power	1250VA / 150W @ 5A
Material		AgSn ₂ In ₂ O ₃	Life Electrical life Mechanical life	1x10 ^s cycles (1800 Ops/h) 1x10 ^r cycles (1800 Ops/h)

Insulation

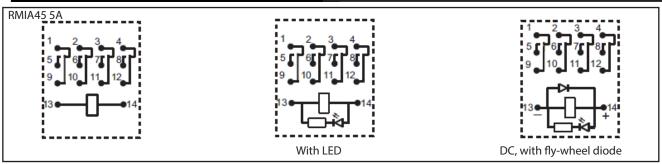
Dielectric strength (1min.)		Insulation	
Between coil and contacts	1500VAC	according to EN61810-5	
Between open contacts	1000VAC	Rated insulation voltage	250V
Contact/Contact	1500VAC	Impulsive insulation voltage	2.2kV
Initial insulation resistance	1.000M Ω - 500VAC	Pollution degree Overvoltage category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

General Data

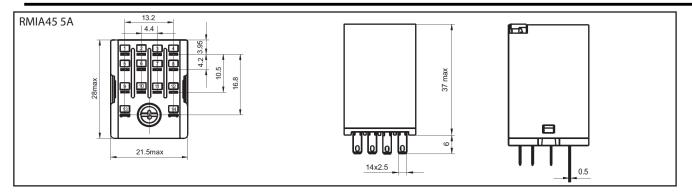
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Operating time (At nominal voltage)	25ms max.	Funktional Destructive	100m/s²/10g 1000m/s²/100g
Release time (At nominal voltage)	25ms max.	Humidity	35% to 95% RH non-condensing
Ambient temperature	-55° to +70°C (-67° to +158°F)	Terminals	PCB or Soldering Lugs
Vibration resistance	10 to 55Hz 1.5mm (0.06")		(Plug-in)
Construction	Dust cover	Weight	~37g (~1.30oz)



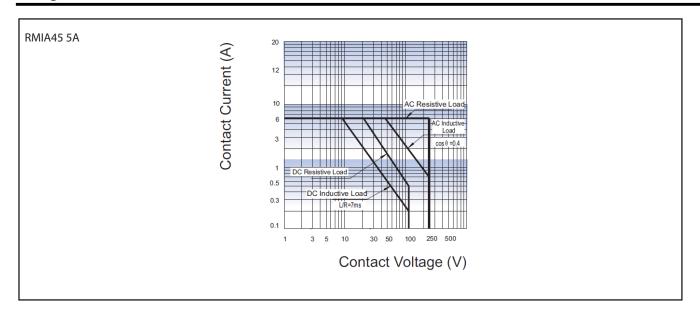
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