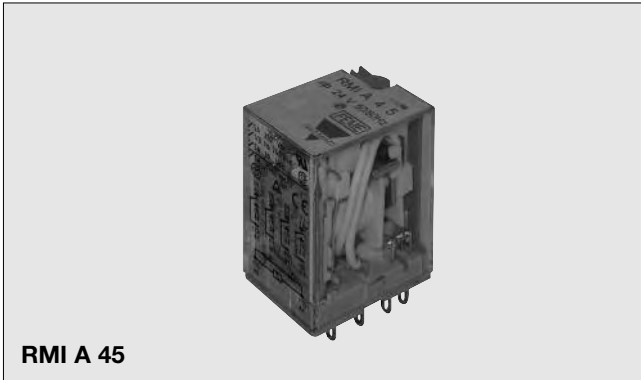


# Midi Industrial Relay Type RMI. 4-5 5A Monostable



- High switching power
- Small size
- 4 poles configuration
- AC coils 6 to 230VAC
- DC coils 5 to 110VDC
- 3750VAC dielectric coil to contacts
- Standard with LED, Push with arm and Flag
- IP 40
- Complain with the CE low voltage directive
- TÜV, UL, CSA, IMQ approved

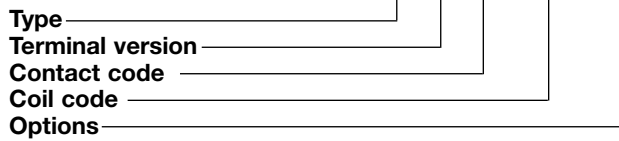
## Product Description

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.

## Ordering Key

**RMI A 45 12DC /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

## Approvals



## Type Selection

Contact configuration	Contact rating	Contact code
4 change over contacts (4PDT {4-form C})	5A	45

## Coil Characteristics, DC 0.9W

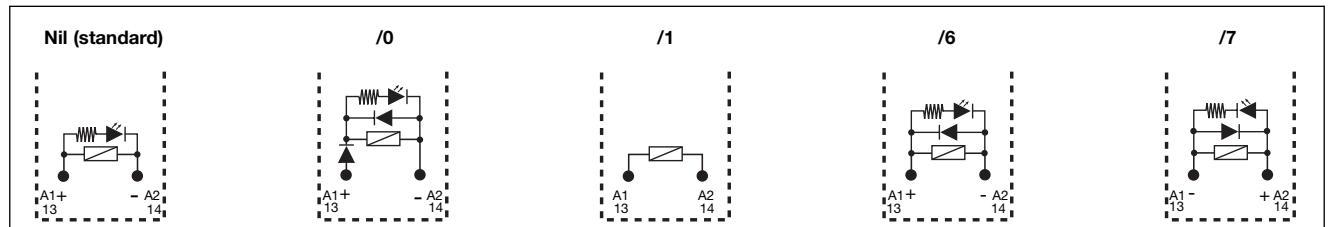
Coil Code	Nominal voltage VDC	@ +20°C (+68°F)		Coil resistance Ω
		Pick-up voltage VDC	Drop-out voltage VDC	
5VDC	5	4.0	0.5	27.5 ±10%
6VDC	6	4.8	0.6	40.0 ±10%
12VDC	12	9.6	1.2	160.0 ±10%
24VDC	24	19.2	2.4	650.0 ±10%
48VDC	48	38.4	4.8	2600.0 ±15%
60VDC	60	48.0	6.0	11000.0 ±15%
110VDC	110	88.0	11.0	11000.0 ±15%

## Coil Characteristics, AC 1.2VA

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	40.0 ±10%
12VAC	12	9.6	3.6	160.0 ±10%
24VAC	24	19.2	7.2	650.0 ±10%
48VAC	48	38.4	14.4	2600.0 ±10%
115/120VAC	110-120	96.0	36.0	11000.0 ±15%
230VAC	220-240	176.0	66.0	11000.0 ±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

<b>Contact rating</b> (with resistive load)	<b>5A - 250VAC</b>	<b>Minimum Current</b> Min. applicable load /4 and /5 versions	<b>5mA @ 12VDC</b> <b>1mA @ 6VDC</b>
<b>UL rating</b>	<b>5A - 250VAC/30VDC</b> <b>1/6HP @ 240VAC</b>	<b>Initial contact resistance</b>	<b>50mΩ (@ 1A 6VDC)</b>
<b>Usually rating</b> (1x10 <sup>5</sup> ops)	<b>5A - 250VAC / 30VDC</b>	<b>Max. switch. voltage</b>	<b>250VAC / 30VDC @ 5A</b>
<b>Max. rating</b> (5x10 <sup>4</sup> ops)	<b>5A - 250VAC / 30VDC</b>	<b>Max. switch. power</b>	<b>1250VA / 150W @ 5A</b>
<b>Material</b>	<b>AgSn<sub>2</sub>In<sub>2</sub>O<sub>3</sub></b>	<b>Life</b> Electrical life Mechanical life	<b>1x10<sup>5</sup> cycles (1800 Ops/h)</b> <b>1x10<sup>7</sup> cycles (1800 Ops/h)</b>

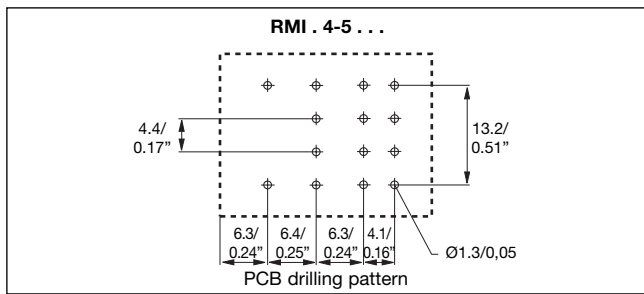
## Insulation

<b>Test Voltage</b> (1 min.) Between coil and contacts Between open contacts Contact/Contact	<b>3750VAC Vr.m.s</b> <b>750VAC Vr.m.s</b> <b>1250VA Vr.m.s</b>	<b>Insulation according to EN61810-5</b> Rated insulation voltage Impulsive insulation voltage Pollution degree Overvoltage category	<b>250V</b> <b>2.2kV</b> <b>2</b> <b>II</b>
<b>Initial insulation resistance</b>	<b>1.000MΩ - 500VAC</b>		

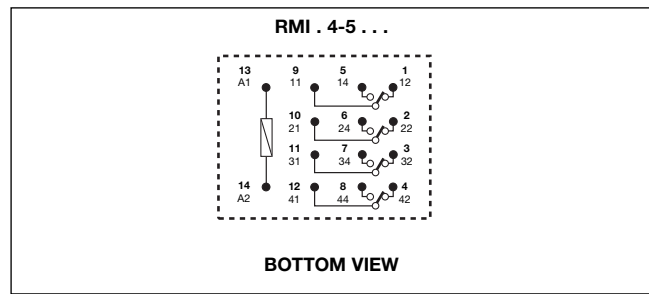
## General Data

<b>Nominal coil power</b>	<b>0.9W DC / 1.2VA AC</b>	<b>Shock resistance</b> Funktional Destructive	<b>100m/s<sup>2</sup> /10g</b> <b>1000m/s<sup>2</sup> /100g</b>
<b>Operating time</b> (At nominal voltage)	<b>25ms max.</b>	<b>Humidity</b>	<b>35% to 95%</b> <b>RH non-condensing</b>
<b>Release time</b> (At nominal voltage)	<b>25ms max.</b>	<b>Terminals</b>	<b>PCB or Soldering Lugs</b> <b>(Plug-in)</b>
<b>Ambient temperature</b>	<b>-55° to +70°C (-67° to +158°F)</b>	<b>Weight</b>	<b>~37g (~1.30oz)</b>
<b>Vibration resistance</b>	<b>10 to 55Hz 1.5mm (0.06")</b>		
<b>Construction</b>	<b>Dust cover</b>		

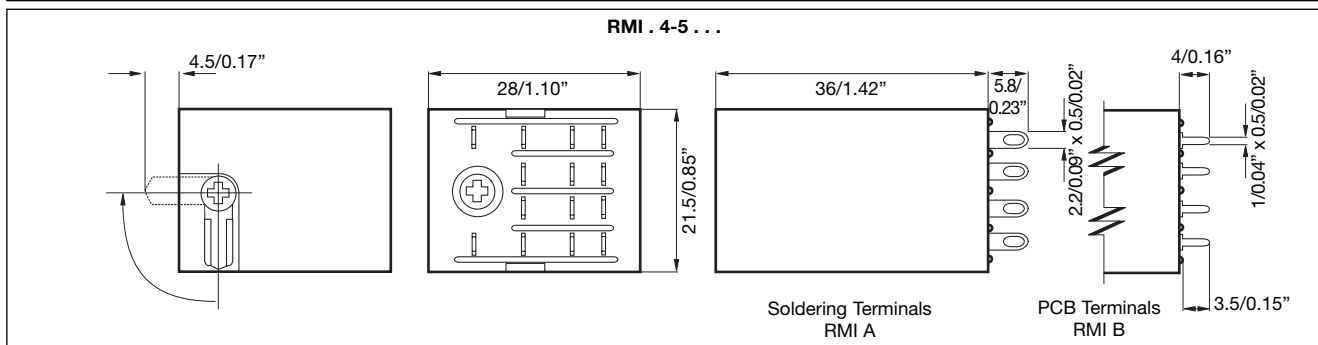
### Pin View mm/inches



### Wiring Diagram

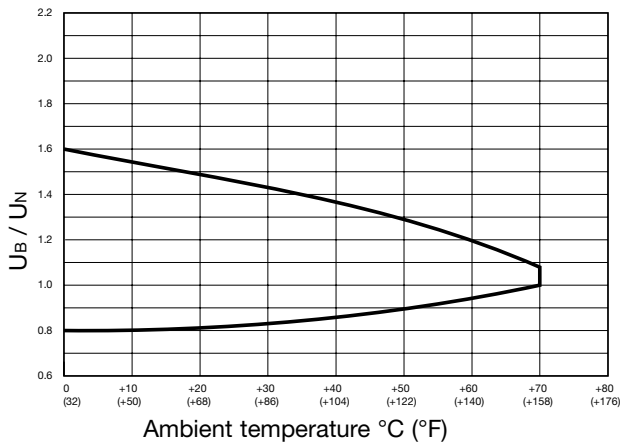


### Dimensions mm/inches

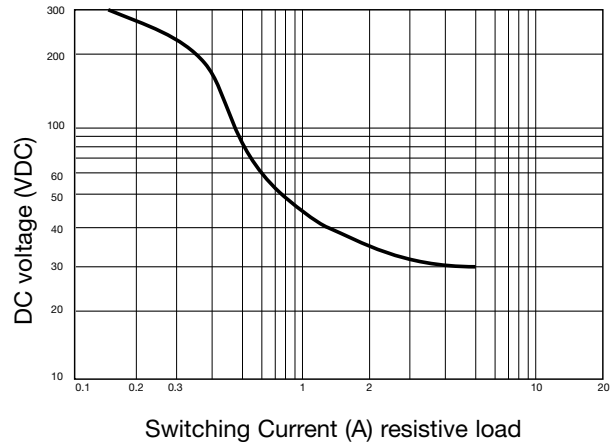


### Diagrams

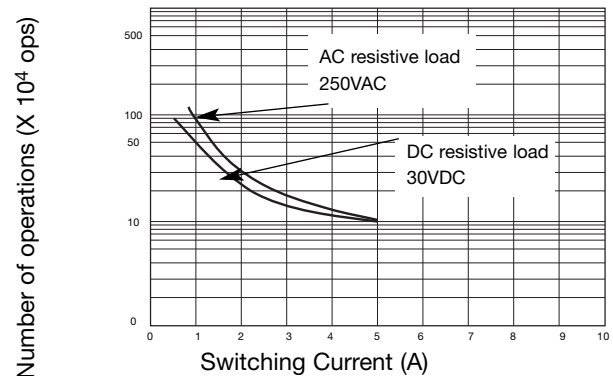
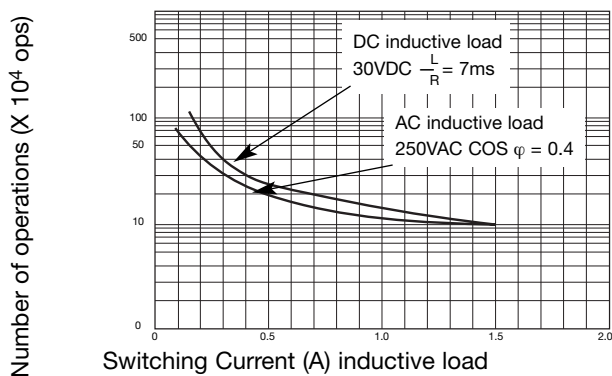
#### 1 Coil Operating Range



#### 2 Max. DC load breaking capacity



#### 3 Electrical life



### 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.

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