

# Midi Industrial Relay

## Type RMI. 4-5 5A

### Monostable



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

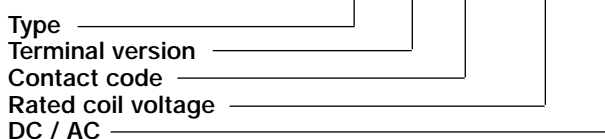
### Product Description

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 4-5 012 DC**



Terminal version: A = Soldering terminals  
B = PCB terminals

### Type Selection

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

### Coil Characteristics, DC

Nominal voltage VDC	At 20°C		At 40°C		Coil resistance Ω
	Pick-up voltage VDC	Drop-out voltage VDC	Pick-up voltage VDC	Drop-out voltage VDC	
5	4.0	0.5	4.3	0.5	27.5 ±10%
6	4.8	0.6	5.2	0.6	40.0 ±10%
12	9.6	1.2	10.3	1.3	160.0 ±10%
24	19.2	2.4	20.7	2.6	650.0 ±10%
48	38.4	4.8	41.5	5.1	2600.0 ±15%
60	48.0	6.0	51.8	6.5	11000.0 ±15%
110	88.0	11.0	95.0	11.8	11000.0 ±15%

### Coil Characteristics, AC

Nominal voltage VAC	At 20°C		At 40°C		Coil resistance Ω
	Pick-up voltage VAC	Drop-out voltage VAC	Pick-up voltage VAC	Drop-out voltage VAC	
6	4.8	1.8	5.2	2.0	40.0 ±10%
12	9.6	3.6	10.3	3.8	160.0 ±10%
24	19.2	7.2	20.7	7.7	650.0 ±10%
48	38.4	14.4	41.4	15.5	2600.0 ±15%
115/120	96.0	36.0	103.6	38.8	11000.0 ±15%
230	176.0	66.0	190.0	71.2	11000.0 ±15%

Coil operating range: see diagram n° 1 pag. 15

## Contact Characteristics

<b>Contact rating</b> (with resistive load)	5 A - 250 VAC	Min. applicable load	100 mA at 5 VDC/12 VAC
<b>UL rating</b>	5 A - 250 VAC/30VDC 1/6 HP at 240 VAC	<b>Initial contact resistance</b>	50 mΩ (at 1 A 6 VDC)
<b>Usually rating</b> (1x10 <sup>5</sup> ops)	5 A - 250 VAC / 30 VDC	<b>Max. switch. voltage</b>	250 VAC / 30 VDC at 10 A
<b>Max. rating</b> (5x10 <sup>4</sup> ops)	6 A - 250 VAC / 30 VDC	<b>Max. switch. power</b>	1250 VA / 150 W at 10 A
<b>Material</b>	Silver alloy	<b>Life</b>	1x10 <sup>5</sup> cycles (1800 ops/h) 1x10 <sup>7</sup> cycles (18000 ops/h)
<b>Current</b> Max. switching current	5 A	Electrical life Mechanical life	

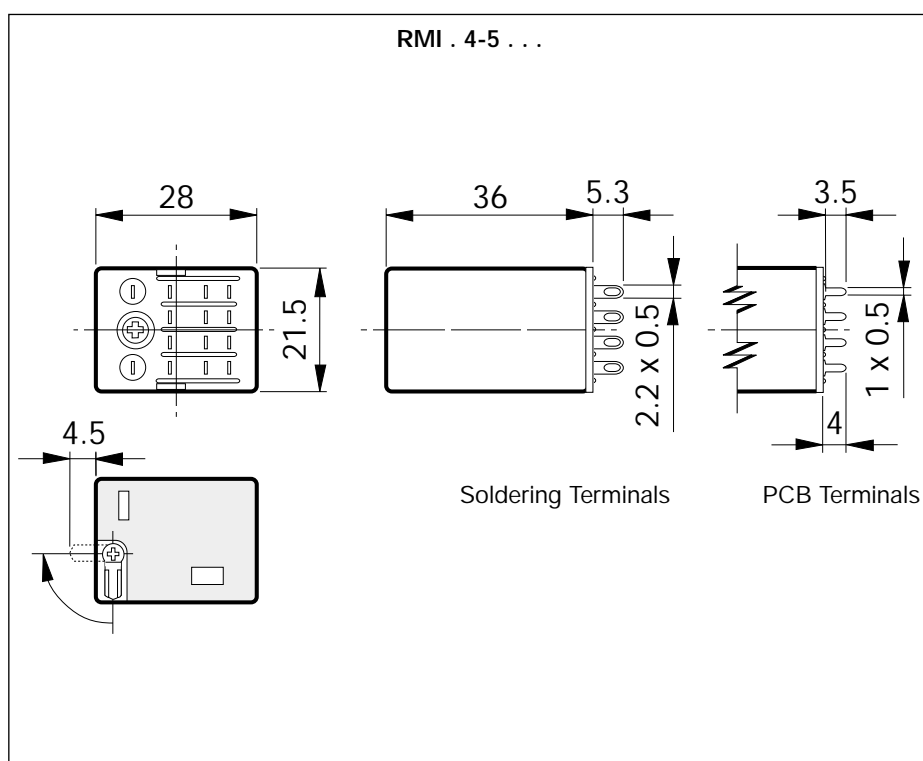
## Insulation

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

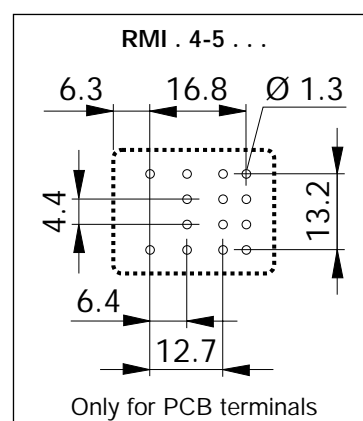
## General Data

<b>Nominal coil power</b>	0.9 W DC / 1.2 VA AC	<b>Shock resistance</b> Funktional Destructive	100 m/s <sup>2</sup> / 10 g 1000 m/s <sup>2</sup> / 100 g
<b>Operating time</b> (At nominal voltage)	25 ms max.	<b>Humidity</b>	35% to 95%
<b>Release time</b> (At nominal voltage)	25 ms max.	<b>Termination</b>	PCB and AMP
<b>Ambient temperature</b>	-55° C to +70° C	<b>Construction</b>	Dust cover
<b>Vibration resistance</b>	10 to 55 Hz 1.5 mm	<b>Weight</b>	~ 37 g

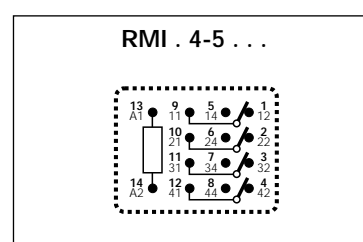
## Dimensions



## Pin View

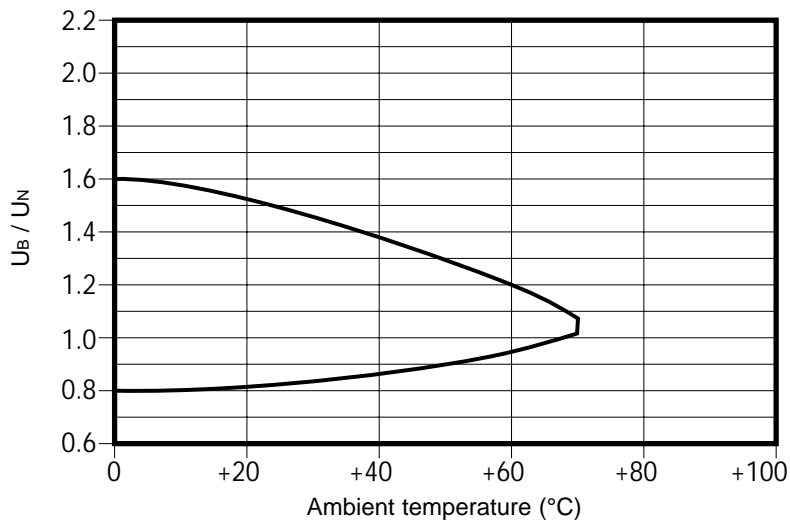


## Wiring Diagram

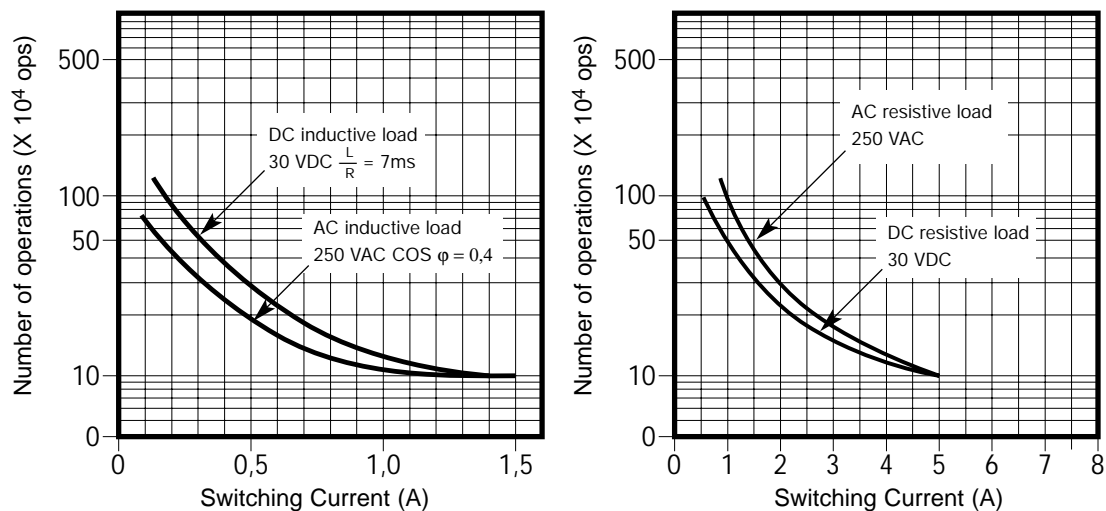


## Diagrams

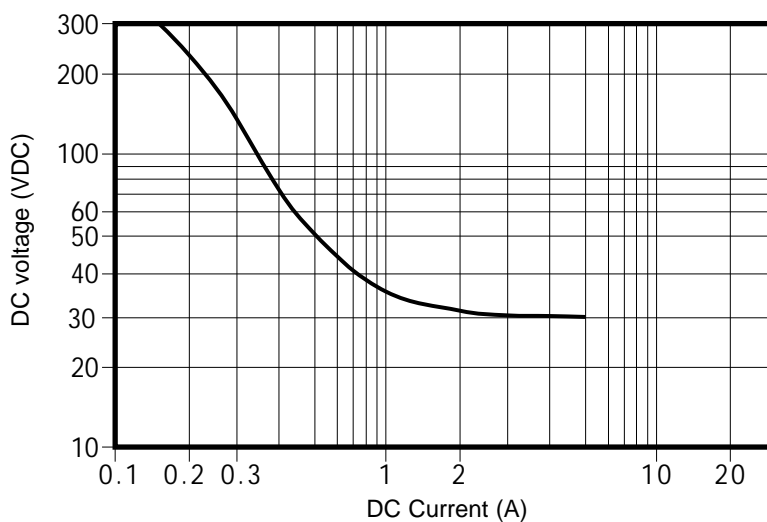
1 Coil Operating Range



2 Electrical life



3 Max. DC load breaking capacity



## Approvals

