

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



RMI. 4-5 5A

- High switching power
- Small size
- Wide range of application
- 5 A switching capacity
- 4 poles configuration
- AC coils 6 to 230 VAC
- DC coils 5 to 110 VDC
- 1.5 KV dielectric coil to contacts
- Au-clad contact available
- Conform to the CE low voltage directive
- UL, VDE, CSA approved
- Standard with LED, Push with arm and Flag

Product Application

- Lift-Elevators
- Moving Stairs
- Textile machines
- Wood working machines
- Plastic molding machines
- Ceramic working machines

Ordering Key

RMI A 4-5 012 DC

Type _____
Terminal version _____
Contact code _____
Rated coil voltage _____
DC / AC _____

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 (20°C)

Nominal voltage VDC	Pick-up voltage VDC	Drop-out voltage VDC	Coil resistance Ω
5	4.0	0.5	27.5 $\pm$ 10%
6	4.8	0.6	40.0 $\pm$ 10%
12	9.6	1.2	160.0 $\pm$ 10%
24	19.2	2.4	650.0 $\pm$ 10%
48	38.4	4.8	2600.0 $\pm$ 15%
110	88.0	11.0	11000.0 $\pm$ 15%

Coil Characteristics, AC (20°C)

Nominal voltage VAC	Pick-up voltage VAC	Drop-out voltage VAC	Coil resistance Ω
6	4.8	1.8	11.5 $\pm$ 10%
12	9.6	3.6	46.0 $\pm$ 10%
24	19.2	7.2	184.0 $\pm$ 10%
48	38.4	14.4	735.0 $\pm$ 10%
115/120	96.0	36.0	4550.0 $\pm$ 15%
230	176.0	66.0	14400.0 $\pm$ 15%

Contact Characteristics

Contact rating (with resistive load)	5 A - 250 VAC	Current Max. switching current	5 A
Usually rating	5 A - 250 VAC / 30 VDC 1 x 10 ⁵ ops	Voltage Max. switching voltage Max. switching power	250 VAC / 30 VDC 150 W - 1250 VA
Max. rating	6 A - 250 VAC / 30 VDC 5 x 10 ⁴ ops	Life Electrical life Mechanical life	1x10⁵ ops (1800 ops/h) 1x10⁷ ops (18000 ops/h)
Material	Silver alloy		
Initial contact resistance	50 mΩ (at 1 A 6 VDC)		

Test Voltage (1 min.)
Between coil and contacts
Between open contacts

1000 VAC
1000 VAC

1500 VAC

Initial insulation resistance

1.000 M Ω - 500 VAC

Nominal coil power	0.9 W DC / 1.2 VA AC
Operating time (At nominal voltage)	25 ms
Release time (At nominal voltage)	25 ms
Ambient temperature	-55° C to +70° C
Vibration resistance	10 to 55 Hz 1.5 mm

Funktional
Destructive

100 m/s²
1000 m/s²

Humidity

35% to 95%

Termination

PCB and AMP

Construction

Dust cover

Weight

~ 37 g

RMI . 4-5 ...

Technical drawings showing dimensions and connection types for RMI 4-5 components.

Top View Dimensions:

- Width: 28
- Height: 21.5
- Mounting hole diameter: 4.5

Side View Dimensions:

- Total width: 36
- Terminal width: 5.3
- Terminal pitch: 2.2 x 0.5

PCB Terminal Dimensions:

- Terminal width: 3.5
- Terminal pitch: 1 x 0.5
- Mounting hole diameter: 4

Connection Types:

- Soldering Terminals
- PCB Terminals

RMI . 4-5 . . .

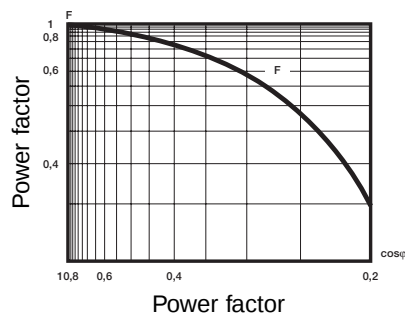
Technical drawing of a 4x5 grid of PCB terminals. The grid is 12.7 mm wide and 13.2 mm high. The distance between the first and last column is 16.8 mm, and between the first and last row is 4.4 mm. The distance from the left edge to the first column is 6.3 mm, and from the bottom edge to the first row is 6.4 mm. The diameter of each terminal is Ø 1.3 mm. A dashed rectangle encloses the grid.

Only for PCB terminals

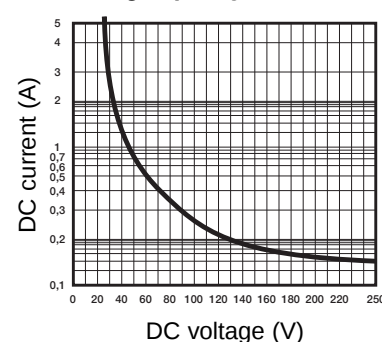
Diagram of a 28-pin DIP package showing pin numbers and RMI numbers:

- Pin 1: 1 (RMI 1)
- Pin 2: 2 (RMI 2)
- Pin 3: 3 (RMI 3)
- Pin 4: 4 (RMI 4)
- Pin 5: 5 (RMI 5)
- Pin 6: 6 (RMI 6)
- Pin 7: 7 (RMI 7)
- Pin 8: 8 (RMI 8)
- Pin 9: 9 (RMI 9)
- Pin 10: 10 (RMI 10)
- Pin 11: 11 (RMI 11)
- Pin 12: 12 (RMI 12)
- Pin 13: 13 (RMI 13)
- Pin 14: 14 (RMI 14)
- Pin 15: 15 (RMI 15)
- Pin 16: 16 (RMI 16)
- Pin 17: 17 (RMI 17)
- Pin 18: 18 (RMI 18)
- Pin 19: 19 (RMI 19)
- Pin 20: 20 (RMI 20)
- Pin 21: 21 (RMI 21)
- Pin 22: 22 (RMI 22)
- Pin 23: 23 (RMI 23)
- Pin 24: 24 (RMI 24)
- Pin 25: 25 (RMI 25)
- Pin 26: 26 (RMI 26)
- Pin 27: 27 (RMI 27)
- Pin 28: 28 (RMI 28)

1 Electrical life reduction factor at AC inductive load



2 Maximum DC resistive load breaking capacity



UL **CSA** **VDE** **CE**
U.S.A. CANADA GERMANY ITALY

The approvals stated are not generally applicable to all the relay versions.

For further information please apply
for relevant data sheets ref.
3.84.00.10.x