

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

CARLO GAVAZZI



- High switching power
- Small size
- Wide range of application
- 12 A switching capacity (5×10^4 cycles)
- 2 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 2 change-over contact configuration. PCB, solder and plug-in terminals.

Ordering Key

RMI A 2-10 012 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
2 change over contacts (DPDT {2-form C})	10 A	2-10

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 $\pm 10\%$
6	4.8	0.6	5.2	0.6	40.0 $\pm 10\%$
12	9.6	1.2	10.32	1.3	160.0 $\pm 10\%$
24	19.2	2.4	20.7	2.6	650.0 $\pm 10\%$
48	38.4	4.8	41.5	5.1	2600.0 $\pm 15\%$
60	48.0	6.0	51.8	6.5	11000.0 $\pm 15\%$
110	88.0	11.0	95.0	11.8	11000.0 $\pm 15\%$

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 $\pm 10\%$
12	9.6	3.6	10.3	3.8	160.0 $\pm 10\%$
24	19.2	7.2	20.7	7.7	650.0 $\pm 10\%$
48	38.4	14.4	41.4	15.5	2600.0 $\pm 15\%$
115/120	96.0	36.0	103.6	38.8	11000.0 $\pm 15\%$
230	176.0	66.0	190.0	71.2	11000.0 $\pm 15\%$

Coil operating range: see diagram n° 1 pag. 12

Contact Characteristics

Contact rating (with resistive load)	10 A - 250 VAC	Min. applicable load	100 mA at 5 VDC/12 VAC
UL rating	10 A - 250 VAC/30VDC 1/3 HP at 240 VAC	Initial contact resistance	50 mΩ (at 1 A 6 VDC)
Usually rating (1x10 ⁵ ops)	10 A - 250 VAC / 30 VDC	Max. switch. voltage	250 VAC / 30 VDC at 10 A
Max. rating (5x10 ⁴ ops)	12 A - 250 VAC / 30 VDC	Max. switch. power	2500 VA / 300 W at 10 A
Material	Silver alloy	Life	1x10⁵ cycles (1800 ops/h) 1x10⁷ cycles (18000 ops/h)
Current Max. switching current	10 A	Electrical life	
		Mechanical life	

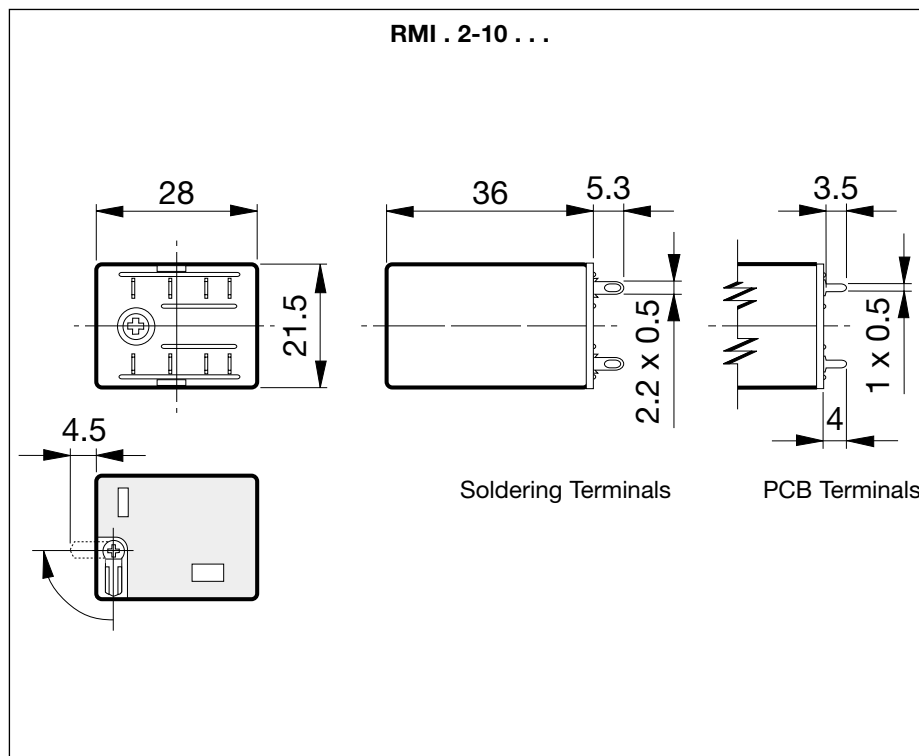
Insulation

Test Voltage (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	Insulation according to EN61810-5 Rated insulation voltage Impulsive insulation voltage Pollution degree Overvoltage category	250 V 3.6 KV 2 III
Initial insulation resistance	1.000 MΩ - 500 VAC		

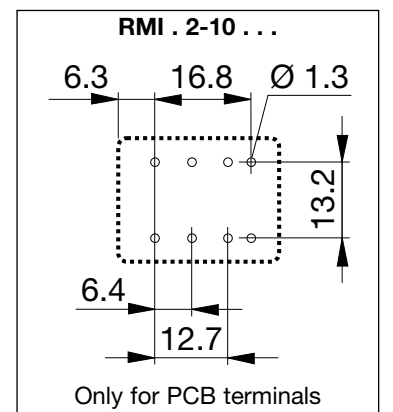
General Data

Nominal coil power	0.9 W DC / 1.2 VA AC	Shock resistance	100 m/s² / 10 g 1000 m/s² / 100 g
Operating time (At nominal voltage)	25 ms max.	Funktional Destructive	
Release time (At nominal voltage)	25 ms max.	Humidity	35% to 95%
Ambient temperature	-55° C to +70° C	Termination	PCB and AMP
Vibration resistance	10 to 55 Hz 1.5 mm	Construction	Dust cover
		Weight	~ 37 g

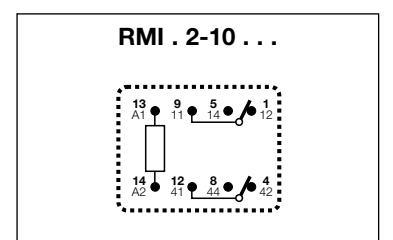
Dimensions



Pin View

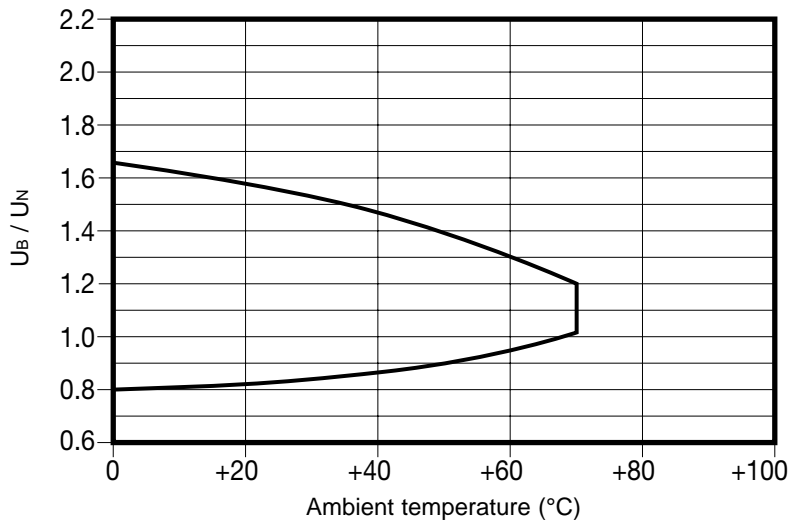


Wiring Diagram

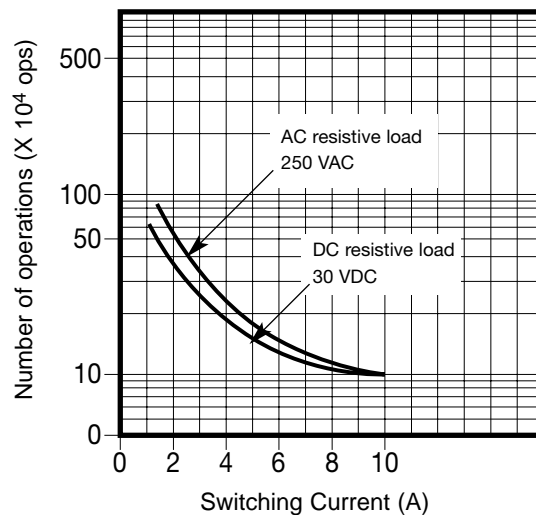
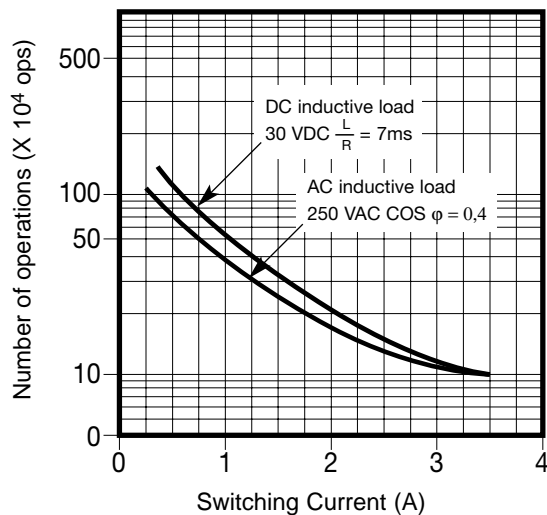


Diagrams

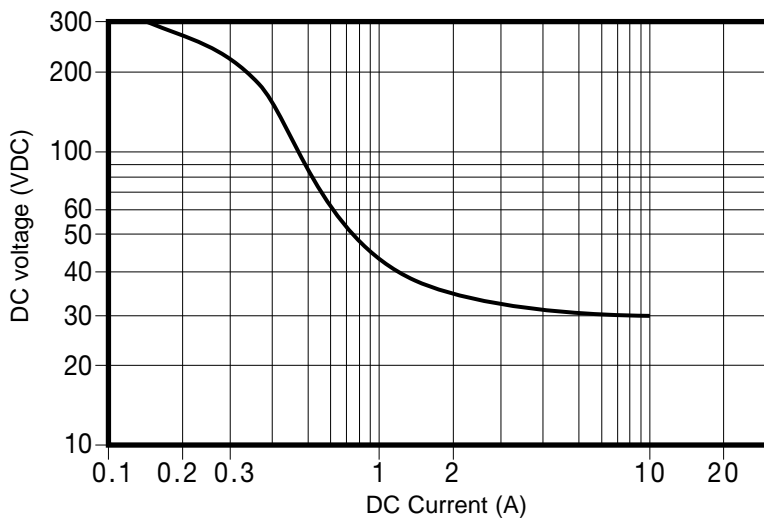
1 Coil Operating Range



2 Electrical life



3 Max. DC load breaking capacity



Approvals

