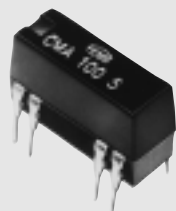


Reed Relays Type CM Monostable

CARLO GAVAZZI



CM/CMD

- Reed relay
- PCB mounting
- Dual-in-line terminals
- Switching capacity 0.11 / 0.25 / 0.5 A
- DC coils 5 to 24 VDC
- Up to 2 normally open / 1 change over contacts
- General purpose, electronics
- Types: CM / CMD

Product Description

Option

—: Without diode

D: With diode

High quality components, suitable for use in professional electronics, telecommunications, digital technology

and industrial control. These reed relays can be driven directly by integrated circuits, to which they are compatible for pin connections and sizes (dual-in-line), pitch 2.54 mm.

Ordering Key

CM D A 100 12

Type

Option

Version (A = Standard sealed)

Contact code

Coil rated voltage

Type Selection

Contact configuration		Contact rating	Contact rating
1 normally open contact	(SPST {1-form A})	0.5 A	100
1 change over contact	(SPDT {1-form C})	0.25 A	001
2 normally open contacts	(DPST {2-form A})	0.11 A	200

Coil Characteristics, DC (20°C)

Contact code 100 Rated voltage VDC	Winding Resistance $\Omega \pm 10\%$	Operating range		Must release VDC(min.)
		Min. VDC	Max. VDC	
5	500	3.8	22	0.5
12	1000	8	31	1
24	2150	16	46	2

Contact code 001 Rated voltage VDC	Winding Resistance $\Omega \pm 10\%$	Operating range		Must release VDC(min.)
		Min. VDC	Max. VDC	
5	200	3.8	14	0.5
12	500	8	22	1
24	2000	16	44	2

Contact code 200 Rated voltage VDC	Winding Resistance $\Omega \pm 10\%$	Operating range		Must release VDC(min.)
		Min. VDC	Max. VDC	
5	150	3.8	12	0.5
12	500	8	22	1
24	2150	16	46	2

Contact Characteristics

	Contact code 100	Contact code 001	Contact code 200
Rating	0.5 A	0.25 A	0.5 A
Material	Rhodium	Rhodium	Rhodium
Current			
Rated current	0.5 A	0.25 A	0.5 A
Initial contact resistance (200 mA - 5 V)	200 mΩ	200 mΩ	200 mΩ
Voltage			
Rated voltage	200 VDC	175 VDC	200 VDC
Min. breakdown volt.	250 VDC	200 VDC	250 VDC
Max. switching power with resistive load	10 W	3 W	10 W
Life			
Exp. life at 28 VDC / 0,25 A	5 x 10 ⁶ cycles	-	5 x 10 ⁶ cycles
Expected life at low level (10 mVDC 10 mA)	10 ⁸ cycles	10 ⁸ cycles	10 ⁸ cycles

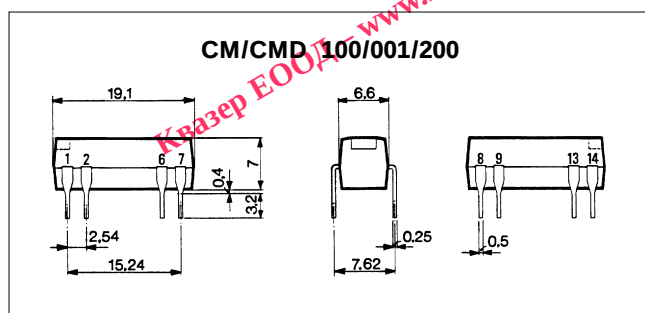
Insulation

Test voltage (1min.) Coil/Contacts	500 VAC	500 VAC	500 VAC
Capacitance Across open cont.	< 0.5 pF	< 0.5 pF	< 0.5 pF
Between contacts + coil	< 2 pF	< 2 pF	< 2 pF
Min. insulation resistance	10 ⁴ M Ω	10 ³ M Ω	10 ⁴ M Ω

General Data

Operating time (incl. bounces)	1 ms	3 ms	1 ms
Release time (with diode)	0.5 ms	3 ms	0.5 ms
Bounces	0.2 ms	0.2 ms	0.2 ms
Ambient temp. Operating	-40 to +85°C	-40 to +85°C	-40 to +85°C
Storage	-40 to +105°C	-40 to +105°C	-55 to +120°C
Vibration resistance (6 h)	20 g 10 to 2000 Hz	20 g 10 to 2000 Hz	20 g 10 to 2000 Hz
Shock resistance	50 g - 11 ms	50 g - 11 ms	50 g - 11 ms
Max. operating frequency	650 Hz	650 Hz	650 Hz
Coil inductance (μ H)	1.5 x by coil resis. value	1.5 x by coil resis. value	1.5 x by coil resis. value
Pins. material	Fe Ni (Monel)	Fe Ni (Monel)	Fe Ni (Monel)
Max. sold. time (at 260°C)	5 s	5 s	5 s

Dimensions



Wiring Diagrams

