BISTABLE	

- DC coils. AC supply through rectifying diode
- Miniature size
- for PCB mounting
- High switching capacity
- · 2-coil bistable relays

Contacts

Contact number & arrangement	2C/O, 2NO		
Contact material	AgCdO, AgSnO ₂		
Max. switching voltage AC/DC	400 V / 250 V		
Min. switching voltage	24 V AgCdO, 24 V AgSnO ₂		
Rated load AC1	10 A / 250 V AC		
DC1	10 A / 24 V DC		
Min. switching current	100 mA AgCdO, 100 mA AgSnO ₂		
Max. inrush current	14 A		
Rated current	10 A		
Max. breaking capacity AC1	2 500 VA		
Min. breaking capacity	2,4 W AgCdO, 2,4 W AgSnO ₂		
Resistance	≤ 100 mΩ		
Max. operating frequency			
at rated load AC1	3 600 cycles/hour		
• no load	18 000 cycles/hour		
Coil			
Rated voltage AC	DC coil + diode D 🛈		
DC	336 V O		
Operating range of supply voltage	see Table 1		
Duration of supply voltage pulse	min. 10 ms; max. 230 s 20 °C, 120 s 40 °C 40 s 70 °C		
Insulation			
Insulation category	C250		
Insulation rated voltage	400 V AC		
Dielectric strength			
• coil - contact	5 000 V AC		
• contact - contact	1 000 V AC		
• pole - pole	4 000 V AC		
Contact - coil distance			
• clearance	> 8 mm		
• creepage	> 8 mm		
	10 ms		
Release time (typical value)	5 ms		
resistive AC1 1 000 cycles/hour	> 7,5 x 10 ⁴		
500 cycles/nour	> 8 X 104		
Mechanical life (cycles)	> 5 x 10 ⁷		
Dimensions (L x W x H)	29,4 x 12,5 x 25,2 mm for IP 67 H=26,5 mm		
Weight	1518 g		
Ambient temperature			
• storing	-40+80 °C		
• operating	-40+70 °C		
Cover protection category	IP 40 or IP 67		
Shock resistance	10 g		
Vibration resistance	2,5 mm 545 Hz		
	10 g 45200 Hz		
Solder bath temperature	max. 270 °C		
Soldering time	max. 5 s		

Standard contact material marked with bolt type.

• RMB642 bistable relays supply - see page 72
Note: At IP 67 version it is recommended that the vent pin is removed after soldering and washing process.

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Coil data - AC/DC voltage version

Coil code	Rated voltage V AC/DC	Coil 1-2 resistance at 20 °C	Coil 1-2 tolerance of resistance	Coil 2-3 resistance at 20 °C	Coil 2-3 tolerance of resistance	Coil operating range at 20 °C V AC/DC	
		Ω	±%	Ω	±%	min.	max.
1003	3	8,0	10	31,5	10	2,89	5,40
1006	6	23,5	10	115,0	15	4,85	9,35
1009	9	42,5	10	195,0	15	6,70	12,50
1012	12	89,0	10	435,0	15	8,82	18,00
1024	24	225,0	10	1 100,0	15	14,00	28,50
1036	36	605,0	15	2 620,0	15	22,50	45,50

Supplying mode: Magnetic circuit with high remanence allows the relays to remain in certain position independently from coil energizing. The realys are not allowed to be supplied continuesly. Only pulse supply is allowed. Pulse duration is between 10 ms and the time shown in **Coil Data** (depending on ambient temperature) on page 71.



2,5 x 2,5

AC supply through rectifying diode, built in supply circuit.



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Mounting

Relays RMB642 are mounted anly on PCBs.



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