ME-4 MASSUSE RELAY

FEATURES

- High sensitivity type and standard type available
- 2C configurations
- Low profile 20.2 x 10 x 10.6(L x W x H)
- 1 coil latching and 2 coil latching is available
- UL and CUL approval, File No.: E179936

CONTACT DATA

Contact form	2C
Max. contact resistance	50mΩ
Rated load	2A/30VDC;1A /125VAC
Max. carrying current	5A
Max. switching capacity	60W or 125VA
Max. switching voltage	220VDC / 250VAC
Max. switching current	2A
Contact material	Silver Alloy, Gold Clad
Capacitance - Contact to contact - Contact set to contact - Contact to coil	 2.0p 1.5p 5.0p
Solder temp. time	Max. 270℃ at 5 sec.
Solvent temp. time	Max. 80℃ at 30 sec.

CHARACTERISTICS

Min. insulation resistance	1000MΩ at 500VDC
Dielectric strength	1500VAC, 1 min, coil to contacts (1 coil) 1000VAC, 1min, coil to contacts (2 coil) 1000VAC, 1 min. between open contacts
Operate time	4 ms
Release time	3 ms
Set time (Latching)	3 ms
Reset time (Latching)	3 ms
Bounce time	1.5 ms
Vibration resistance	10 – 55Hz, 20g
Shock resistance	Functional:50G ; Destructive: 100G
Ambient temperature	- 40℃ to + 85℃
Temperature rise	Max. 65℃
Humidity	5% to 85% RH
Life expectancy - Electrical - Mechanical	 1 x 10^5 operations (2A/30VDC) 5 x 10^5 operations (1A/30VDC) 1 x 10^8 operations

COIL SPECIFICATIONS - 1. Single side sable (Standard)

Nominal voltage (VDC)	Pick-up voltage VDC(Max.)	Drop-out voltage VDC(Min.)	Nominal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption(mW)	Max. allow voltage(VDC)
3	2.1	0.3	66.7	45	200	6
5	3.5	0.5	40	125	200	10
6	4.2	0.6	33.3	180	200	12
9	6.3	0.9	22.2	405	200	18
12	8.4	1.2	16.7	720	200	24
15	10.5	1.5	13.3	1125	200	30
24	16.8	2.4	8.3	2880	200	48
48	36	4.8	4.2	11520	200	96

2. Single side stable (Sensitive)

Nominal voltage (VDC)	Pick-up voltage VDC(Max.)	Drop-out voltage VDC(Min.)	Nominal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption(mW)	Max. allow voltage (VDC)
3B	2.4	0.3	50	60	150	6.9
5B	4	0.5	30	167	150	11.5
6B	4.8	0.6	25	240	150	13.8
9B	7.2	0.9	16.7	540	150	20.8
12B	9.6	1.2	12.5	960	150	27.7
15B	12	1.5	10	1500	150	34.6
24B	19.2	2.4	6.3	3840	150	55.4

3. Latching (2 coils) - Standard type

Nominal voltage (VDC)	Set, reset voltage (VDC)	Nominal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption (mW)	Max. allow voltage (VDC)
3	2.25	66.7	45	200	6
5	3.75	40	125	200	10
6	4.5	33.3	180	200	12
9	6.75	22.2	405	200	18
12	9	16.7	720	200	24
15	11.25	13.3	1125	200	30
24	18	8.3	2040	200	48

4. Latching (2 coils) - Sensitive type

Nominal voltage (VDC)	Set, reset voltage (VDC)	Nominal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption (mW)	Max. allow voltage (VDC)
3B	2.4	50	60	150	6.9
5B	4	30	167	150	11.5
6B	4.8	25	240	150	13.8
9B	7.2	16.7	540	150	20.8
12B	9.6	12.5	960	150	27.7
15B	12	10	1500	150	34.6
24B	19.2	6.3	3840	150	55.4

5. Latching (1 coils) - Standard type

Nominal voltage (VDC)	Set, reset voltage (VDC)	Nominal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption (mW)	Max. allow voltage (VDC)
3	2.25	33.3	90	100	8.5
5	3.75	20	250	100	14
6	4.5	16.7	360	100	17
9	6.75	11.1	810	100	25
12	9	8.3	1440	100	34
15	11.25	6.7	2220	100	42
24	18	4.2	4000	100	56

6. Latching (1 coils) - Sensitive type

Nominal voltage (VDC)	Set, reset voltage (VDC)	Nominal current (mA ± 10%)	Coil resistance (Ω ± 10%)	Power consumption (mW)	Max. allow voltage (VDC)
3B	2.4	25	120	75	9.6
5B	4	15	330	75	16
6B	4.8	12.5	480	75	19
9B	7.2	8.3	1080	75	29
12B	9.6	6.25	1920	75	39
15B	12	5	3000	75	43
24B	19.2	3.1	7680	75	78

ORDERING INFORMATION

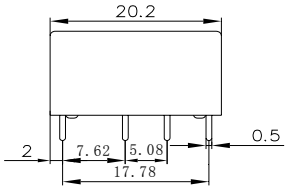
ME-4 - L2 - 12 - B

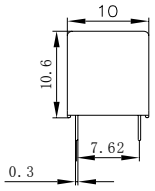
Model No.	Sort	Coil Voltage	Sensitivity
ME-4	Nil: Single side stable L1: 1 Coil Latching L2: 2 Coil Latching	3 – 48VDC	Nil: Standard B: Sensitive

Dimensions(unit:mm)

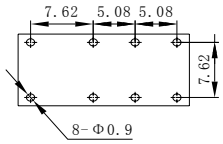
Tolerance:±0.3

Single side stable or Latching(1 coil)





PCB LAYOUT



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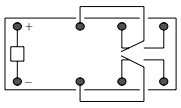
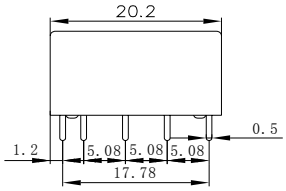
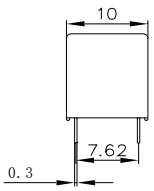


Latching(2 coil)





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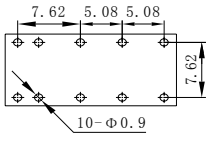

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