

FEATURES

- Electrical endurance 10000ops
- 120A switching capability
- 4kV dielectric strength (between coil and contact)
- Environmental friendly product (ROHS compliant),According to IEC62052-31:UC3
- Contact resistance $\leq 0.35\text{m}\Omega$

CONTACT DATA

Contact form	1A,1B
Contact resistance (Initial)	Typ:0.35 m Ω max. (at 100A) ¹⁾
Contact rating(Res.load)	100A 240VAC COS ϕ =1
Max. switching power	33120W
Max. switching voltage	276VAC
Max. switching current	120A
Contact material	AgSnO ₂
Weight	75g

- 1) Typical value: Sampling quantity for contact resistance shall not less than 20pcs, take the average value from 5 continuous measurements for each sample.

CHARACTERISTICS

Insulation resistance	1000M Ω min (at 500VDC)
Dielectric strength	
- between coil to contacts	4000VAC 1min
- between open contacts	2000VAC 1min
Creepage distance	8mm
Operate time	≤ 20 ms
Release time	≤ 20 ms
Shock resistance	Functional: 98m/s ² Destructive: 980m/s ²
Vibration resistance	10-55Hz, 1.5mm DA
Humidity	5%~85% RH
Ambient temperature	- 40°C to 85°C
Life expectancy	
- Electrical	1 x 10 ⁴ operations
- Mechanical	1 x 10 ⁵ operations

COIL SPECIFICATIONS – 1 COIL LATCHING

Nominal voltage (VDC)	Max. Set/Reset voltage ¹⁾ (VDC)	Pulse Duration (Recommended) (ms)	Coil resistance ($\Omega \pm 10\%$)	Power consumption (W)
6	4.8	50~100	12	3
9	7.2	50~100	27	3
12	9.6	50~100	48	3
24	19.2	50~100	192	3
48	38.4	50~100	768	3

COIL SPECIFICATIONS – 2 COIL LATCHING

Nominal voltage (VDC)	Max. Set/Reset voltage ¹⁾ (VDC)	Pulse Duration (Recommended) (ms)	Coil resistance ($\Omega \pm 10V\%$)	Power consumption (W)
6	4.8	50~100	6+6	6
9	7.2	50~100	13.5+13.5	6
12	9.6	50~100	24+24	6
24	19.2	50~100	96+96	6
48	38	50~100	384+384	6

ORDERING INFORMATION

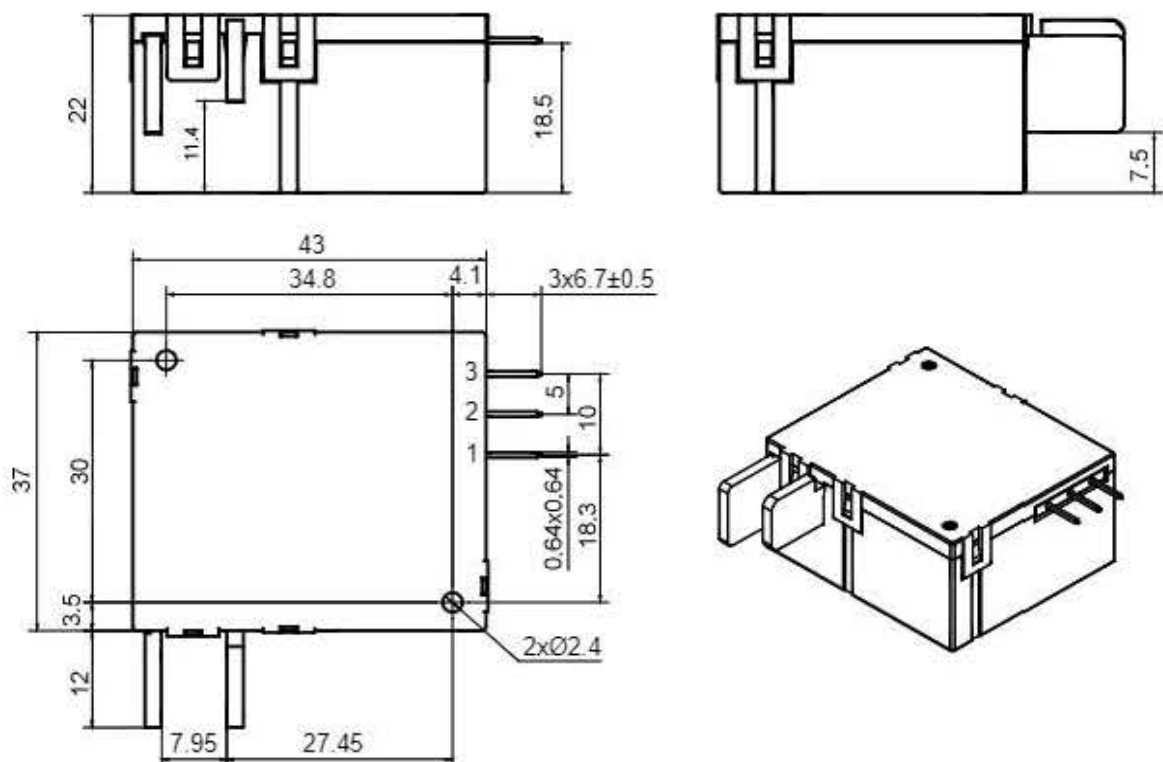
ME-121 - **L1** - **12** - **120** **A** **T** **R**

Model No.	Coil type	Coil Voltage	Contact rating	Contact form	Contact material	Polarity
ME-121	L1: 1 coil latching L2: 2 coil latching	6VDC – 48VDC	120:120A	A: 1Form A(Double-contact of 1 Form A) B: 1Form B(Double-contact of 1 Form B)	T: AgSnO ₂	Nil: Positive polarity R: Negative polarity

Note: (922):Stands for the relay microswitch

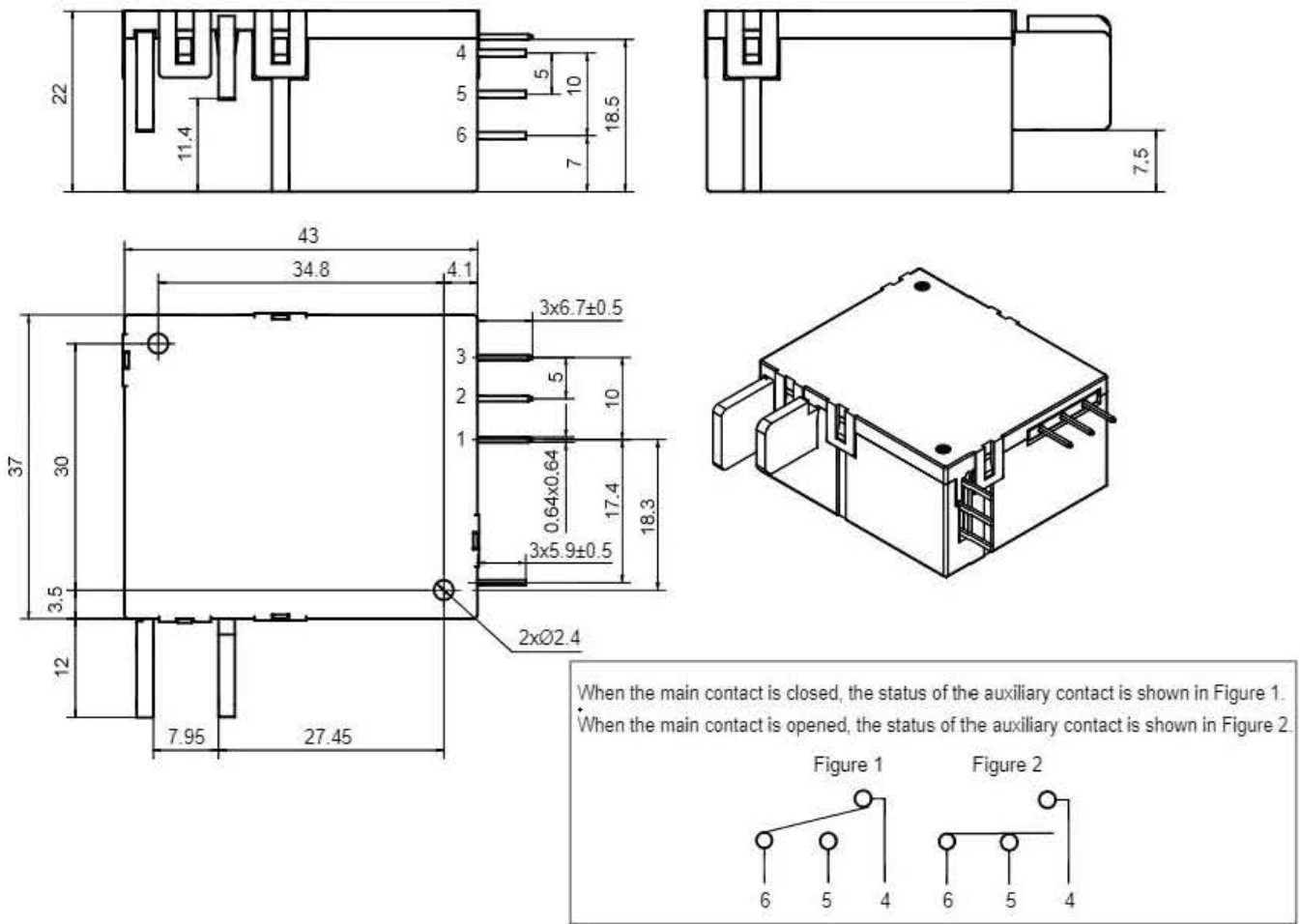
Dimensions(unit:mm)

Outline Dimensions



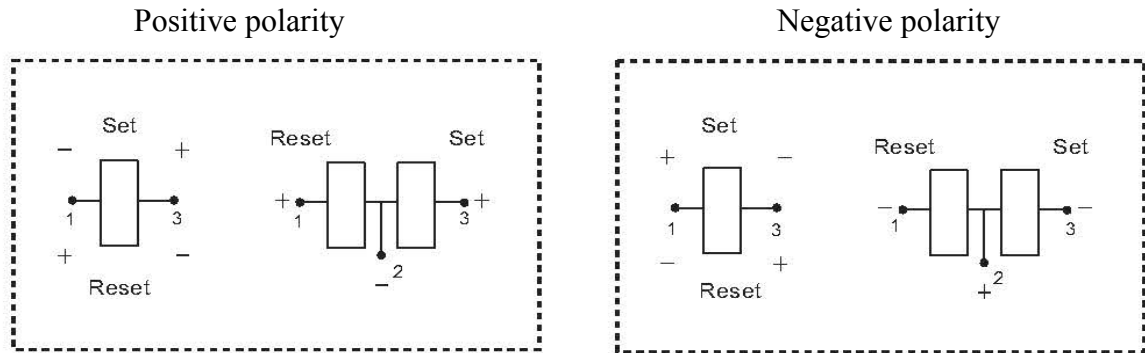
Dimensions(unit:mm)

Outline Dimensions(Stands for the relay microswitch)



- Remark: 1)The dimension of the load terminals as well as the sampling resistance can be made per customer request.
- 2) In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm,tolerance should be ± 0.2 mm ; outline dimension > 1 mm and ≤ 5 mm,tolerance should be ± 0.3 mm;outline dimension > 5 mm.tolerance should be ± 0.4 mm.

Coil Wiring Diagram



Notice:

1. Relay is on the “reset” or “set” status when being released from stock, with the consideration of shock arisen from transit and relay mounting, relay would be changed to “set” or “reset” status, therefore, when application (connecting the power supply), please reset the relay to “set” or “reset” status on request.
2. Do not energize voltage to “set” coil and “reset” coil simultaneously. And also long energized time (more than 1 min) should be avoided.
3. Normally the load terminals are not suitable for reflow solder, wave solder or tin solder, we suggest use spot welding. Load terminals shall be prevented from assembly stress, or freely move.
4. Relays used for metering measuring applications are usually made with dust proof structure, while most relays could be made specially per customers specific requirements. No longer than 6 months storage time is recommended for this kind of relay, and please pay attention to the storage environment. To ensure contact reliability, we will keep contact status be close when delivery if no special required by customer.

Disclaimer: All the specifications are subject to change without notice.