

FEATURES

- 100A Latching relay
- Making test 1500A 10ms short circuit without explosion
- 4KV dielectric strength between coil to contacts
- Heavy load up to 27.7KVA
- Micro switch on mounting board available
- Environmental friendly product (ROHS compliant)

CONTACT DATA

Contact form	1A, 1B
Contact resistance	Typ.: 0.35mΩ max. (at 100A) (1)
Contact rating (resistive load)	100A 277VAC/28VDC
Max. switching power	27700VA / 2800W
Max. switching voltage	440VAC
Max. switching current	100A
Contact material	AgSnO ₂

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

CHARACTERISTICS

Insulation resistance	1000MΩ (at 500VDC)
Dielectric strength	
- between coil to contacts	4000VAC, 1 min.
- between open contacts	2000VAC, 1 min.
Creepage distance	8mm
Set time	20 ms max. (at nomi. volt.)
Reset time	20 ms max.(at nomi. volt.)
Shock resistance	Functional: 294m/s ² Destructive: 980m/s ²
Vibration resistance	10-55Hz, 1.5mm DA
Humidity	5% - 85% RH
Ambient temperature	- 40°C to 70°C
Life expectancy	
- Electrical	1 x 10 ⁴ Ops (100A220VAC, Resistive load, Room temp., 1s on 9s off)
- Mechanical	1 x 10 ⁵ operations

COIL SPECIFICATIONS – 1 Coil latching

Nominal voltage (VDC)	Pick-up voltage (VDC)	Pulse duration s min.	Coil resistance (Ω±10%)	Power consumption (W)
6	4.8	100	16	2.4
12	9.6	100	60	2.4
24	19.2	100	250	2.4
48	38.4	100	1000	2.4

2 Coil Latching

Nominal voltage (VDC)	Pick-up voltage (VDC)	Pulse duration ms min.	Coil resistance (Ω±10%)	Power consumption (W)
6	4.8	100	8 + 8	4.8
12	9.6	100	30 + 30	4.8
24	19.2	100	125 + 125	4.8
48	38.4	100	500 + 500	4.8

ORDERING INFORMATION

ME-100 - A - 12 - D 1 T 1 2 R

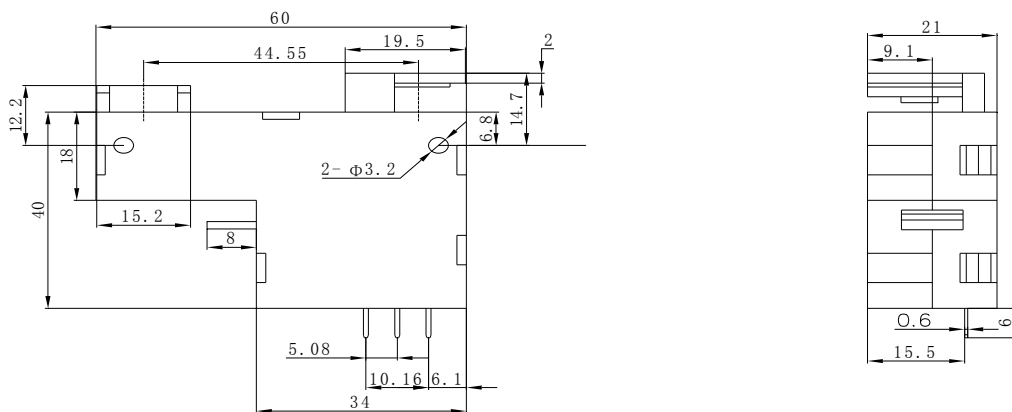
Model No.	Version / Contact terminal	Coil Voltage	Contact Form	Coil Terminal Type	Contact material	Sort	Mounting Board	Polarity
ME-100	A: Type A B: Type B C: Type C	6VDC - 48VDC	H: 1 Form A D: 1 Form B	1: Type 1 2: Type 2	T: AgSnO ₂	1: 1 coil Latching 2: 2 coil Latching	1: Without micro switch 2: With micro switch	Nil:Positive polarity R:Negative polarit

Notes: 1) H means that relay is on the “reset” status when delivery; D means that relay is on the “set” status when delivery. If no special required by custome, we will keep the relay on the “set” status when delivery.

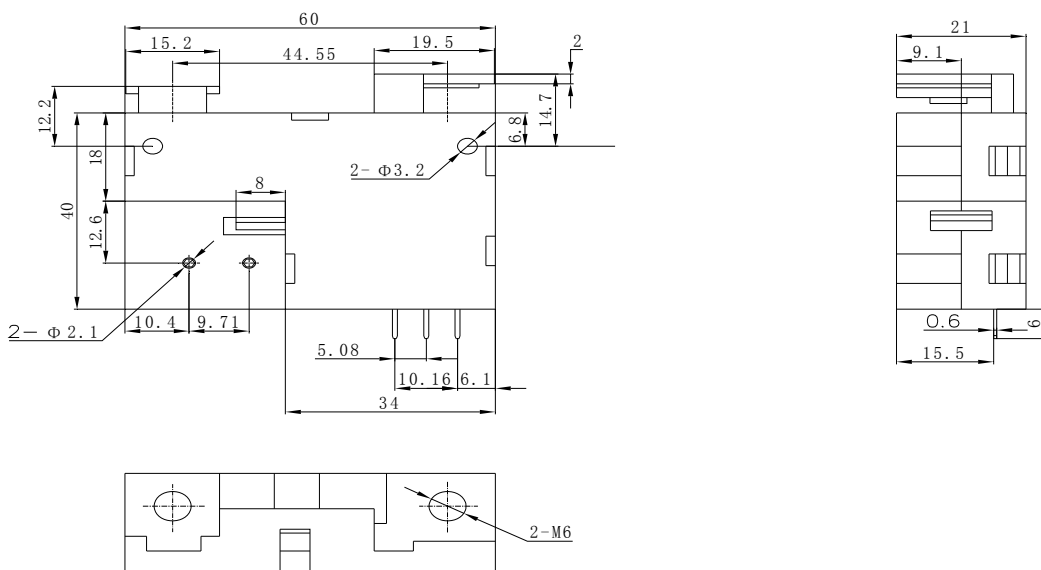
2) The customer special requirement express as special code after evaluating by Massuse.

Dimensions(unit:mm)

Type A terminal, No mounting board

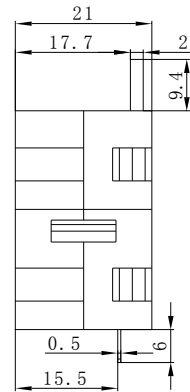
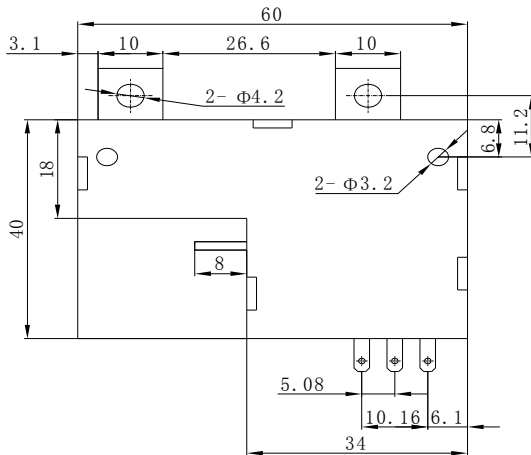


Type A terminal, with micro-switch mounting board

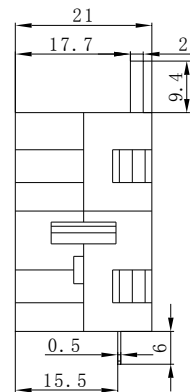
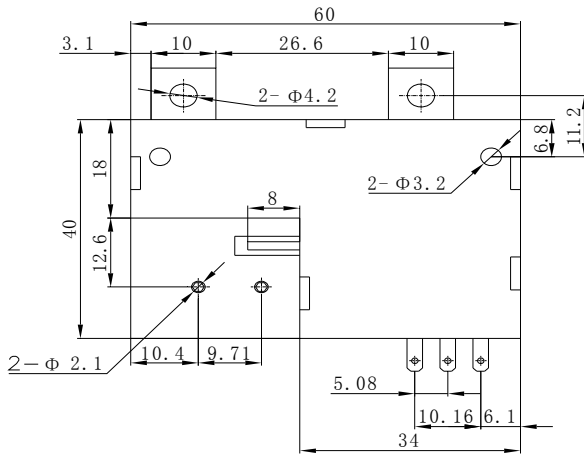


Dimensions(unit:mm)

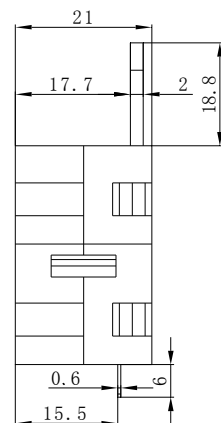
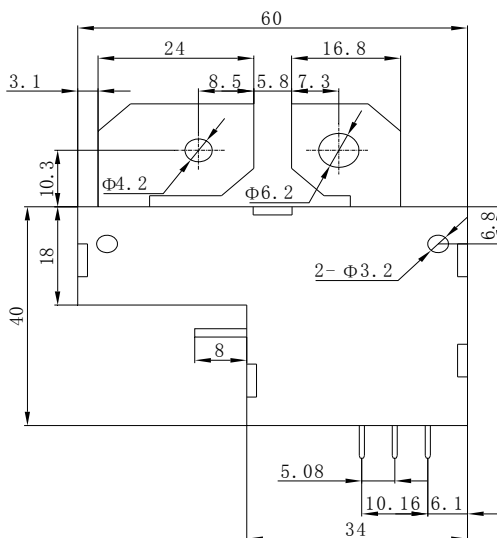
Type B terminal, No mounting board



Type B terminal, with micro-switch mounting board

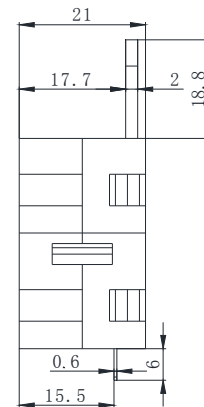
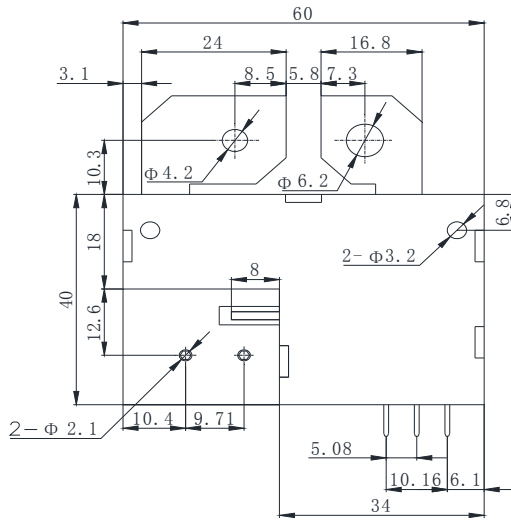


Type C terminal, No mounting board



Dimensions(unit:mm)

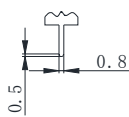
Type C terminal,with micro-switch mounting board



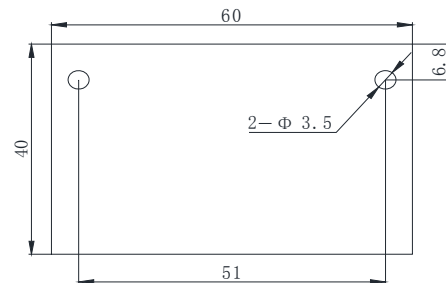
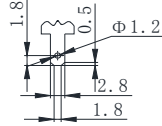
PCB LAYOUT

COIL TERMINALS

Type 1

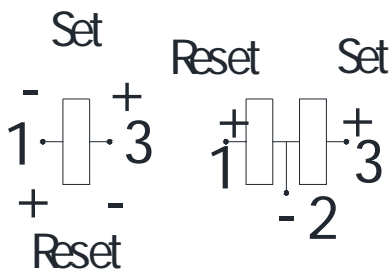


Type 2



Coil WIRING DIAGRAM

Positive Polarity



Negative Polarity



Notice:

1. Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen 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. In order to maintain "set" or "reset" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "set" or "reset" time, Do not energize voltage to "set" coil and "reset" coil simultaneously. And also long energized time (more than 1 min) should be avoided.
3. The terminals of relay without twisted copper wire cannot be tin-soldered, cannot be moved willfully.
4. Relays used for metering measuring applications are usually made with dust proof structure, while most relays could be made specially per customer's 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 closed when delivery if no special required by customer.