LONGJING® Electric

# LM1L Series Earth Leakage Circuit Breaker

Rotary handle operation device

## Rotary handle operation device

The mechanism is used in moulded case circuit breaker to operate the draw-out panel. Power distribution panel and supply box outside the panel by turning the handle, and to ensure the door of panel would not be openned when the breaker being on.

The hand-drive mechanism can be equiped with two types of operation one is"A" model square handle, the other is "B" model round handle.

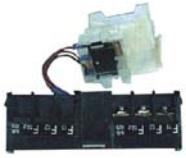
## The internal accessories of the breaker

**Release pattern and accessories code see following table**

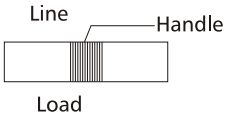
Under-voltage release

Shunt release

Alarm contact



Auxiliary contact




SHT: Shunt release; UVR: Under-voltage release;
AX: Auxiliary contact; AL: Alarm contact

| Release pattern and accessories code | Type / Name | LM1L-100,225 | LM1L-400 | LM1L-630 |
|---|---|---|---|---|
| 200,300 | No accessories | 200: Magnetic release (only short circuit protection)<br>300: Thermal magnetic release(both overload and short circuit protection) | | |
| 208,308 | Alarm contact | AL | AL | AL |
| 210,310 | Shunt release | SHT | SHT | SHT |
| 220,320 | Auxiliary contact | AX | AX | AX |
| 230,330 | Under-voltage release | UVR | UVR | UVR |
| 228,328 | Auxiliary contact<br>Alarm contact | AL<br>AX | AL<br>AX | AL<br>AX |

**The technical parameter and functions of the accessories**

| Accessory | Rated operating voltage(V) | | | |
|---|---|---|---|---|
| | AC50Hz | | DC | |
| Shunt Release Us | 220(230) | 380(400) | 110 | 220 |
| Under-voltage Release Us | 220(230) | 380(400) | | |

Auxiliary contact and Alarm contact: Auxiliary contact is as some as Alarm contact, the technical parameter see following table

| Rated heating current Ith(A) | Rated operating current Ie(A) | | Suited Frame Inm(A) |
|---|---|---|---|
| | AC380V | DC220V | |
| 3 | 0.3 | 0.15 | 100,225 |
| 3 | 0.4 | 0.15 | 400,630 |

| Accessories name | Function | Wiring connection diagram |
|---|---|---|
| Alarm contact | Indicate circuit breaker at tripping | B14, B12, B11<br>The position of breaker at opening and closing |
| Auxiliary contact | Indicate circuit breaker at opening or closing | B14, B12, F11<br>The position of breaker at opening |
| Shunt release | The shunt release should make the breaker trip reliably when the operation voltage is 70%-110% of rated control voltage | The microswitch will cut by itself when breaker open<br>K, A1, A2 |
| Under-voltage | When Ue is 35%-70% of the rated control voltage, the under voltage release should make the breaker trip correctly<br>When Ue is 85%-110% of the rated control voltage, the under voltage release should make the breaker close<br>In case of Ue less than 35% of the rated control voltage should prevent the breaker from closing | K<br>P1 P2 |