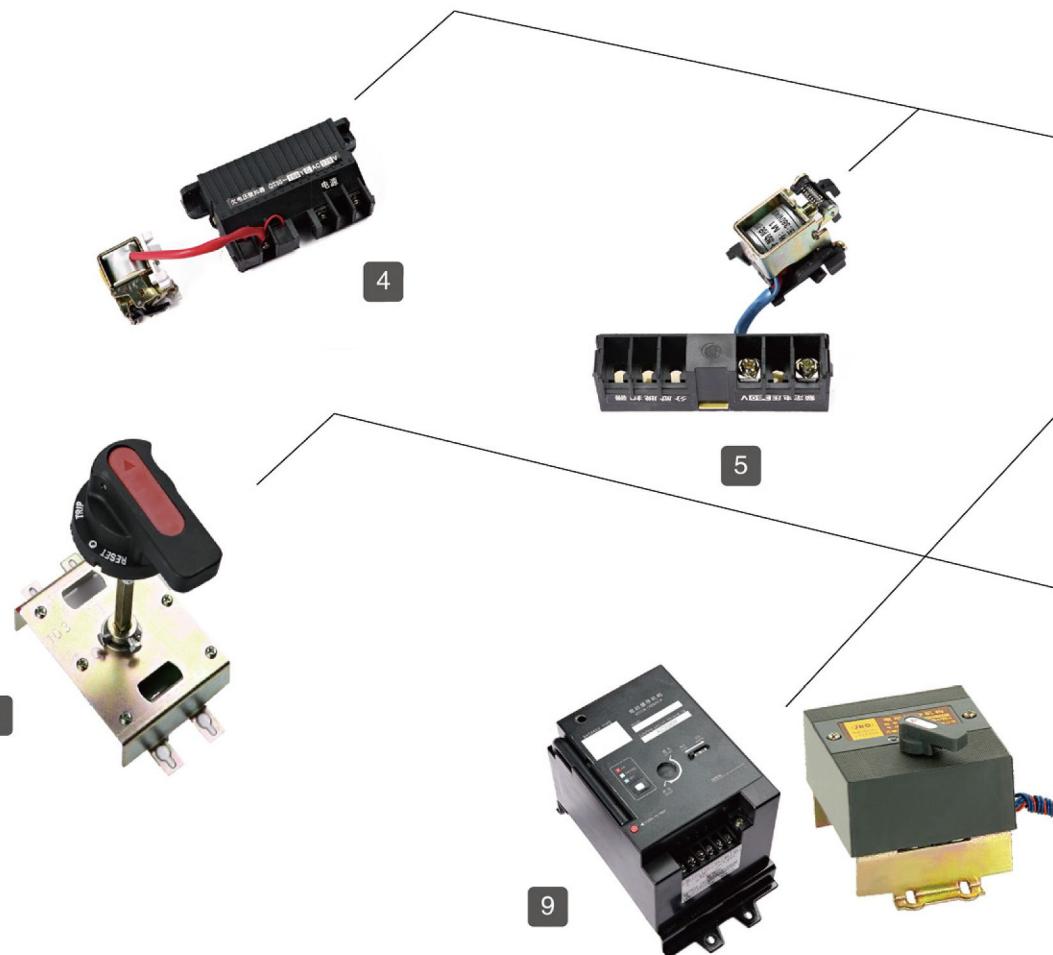


iALM1 Moulded Case Circuit Breaker

- | | |
|----|--|
| 1 | Switch body |
| 2 | Arc chute (standard) |
| 3 | Plug-in type (optional) |
| 4 | Undervoltage release (optional) |
| 5 | Shunt release (optional) |
| 6 | Alarm contact (optional) |
| 7 | Auxiliary contact (optional) |
| 8 | Rotary handle operating mechanism (optional) |
| 9 | Electric operating mechanism (optional) |
| 10 | Front wiring transition board (optional) |





iALM1 Molded Case Circuit Breaker

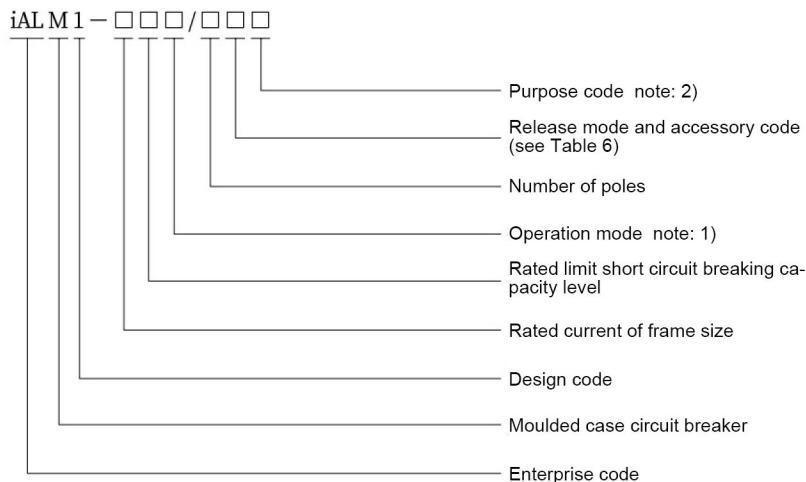


Product overview

iALM1 series moulded case circuit breaker (hereinafter referred to as circuit breaker) is one of the new circuit breakers developed by adopting international advanced design technology. It is classified into type L (standard type) according to its rated limit short-circuit breaking capacity (Icu), type M (high breaking type) and type H (high breaking type). The product has the characteristics of small volume, high breaking capacity, short arcing and anti vibration. It is an ideal product for land and ship use. Its rated insulation voltage is 800V (500V for iALM 1-63), which is suitable for infrequent line conversion and infrequent motor startup in circuits with AC 50Hz and rated working voltage of 690V and below. This series of circuit breakers have overload, short circuit and undervoltage protection devices, which can protect lines and power supply equipment from damage.

This series of circuit breakers can be installed vertically (i.e. upright) or horizontally (i.e. transversely).

Product naming rules



Note: 1) there is no code for direct operation; the manual operating mechanism is represented by Z; and the electric operating mechanism is represented by P.

2) No code for circuit breaker for power distribution; the circuit breaker for protecting motor is represented by 2.

iALM1 Moulded Case Circuit Breaker

Tripping mode and accessory code

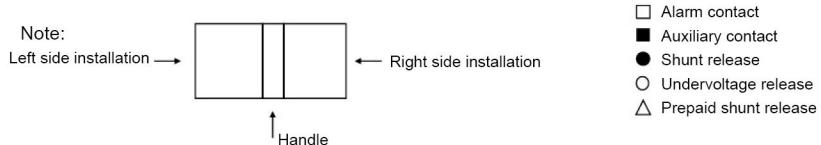


Table 2 Tripping mode and accessory code

| Accessory code Number of poles | Model | iALM1-63L、M iALM1-125L、M、H iALM1-250L、M、H | | iALM1-400L、M、H iALM1-630L、M、H | iALM1-800L、M | iALM1-1250/1600 |
|-----------------------------------|---|---|-------|----------------------------------|--------------|-----------------|
| | | 3P、4P | 3P、4P | 3P | 3P | |
| 00 | No accessories | □□ | □□ | □□ | □□ | |
| 08 | Alarm contact | □□ | □□ | □□ | | |
| 10 | Shunt release | ●□ | ●□ | □□● | □● | |
| 10F | Prepaid shunt release | △□ | △□ | | | |
| 20 | Auxiliary contact | ■□ | ■□ | □□■ | ■□ | |
| 30 | Undervoltage release | □○ | □○ | □○ | | |
| 40 | Shunt release auxiliary contact | ●■ | ●■ | ■● | ■● | |
| 40F | Prepaid shunt release auxiliary contact | △■ | △■ | | | |
| 50 | Shunt release, undervoltage release | ●○ | ●○ | ○● | | |
| 60 | Two sets of auxiliary contacts | ■■ | ■■ | ■■ | ■■ | |
| 70 | Auxiliary contact, undervoltage release | ■○ | ■○ | ■○ | | |
| 18 | Shunt release, alarm contact | ●□ | □● | □● | | |
| 18F | Prepaid shunt release, alarm contact | △□ | △□ | | | |
| 28 | Auxiliary contact, alarm contact | ■□ | ■□ | ■□ | | |
| 38 | Under voltage release, alarm contact | □○ | □○ | □○ | | |
| 48 | Shunt release, alarm contact, auxiliary contact | ■● | ■● | ■● | | |
| 48F | Prepaid shunt release, auxiliary contact, alarm contact | ■△ | | | | |
| 68 | Two sets of auxiliary contacts, alarm contacts | ■■ | ■■ | ■■ | | |
| 78 | Auxiliary contact, undervoltage release, alarm contact | ■○ | ■○ | ■○ | | |

The first digit of release mode and internal accessory code "2" represents electromagnetic (instantaneous) release, "3" represents thermal electromagnetic (compound) release.

Only 63, 125, 250, 400 and 630 types can be used as prepaid shunt release. There are only 08, 10, 20, 28 and 30 for accessories of 125 and 250 type 2P products.

iALM1 Moulded Case Circuit Breaker

Product parameters

◆ Product parameters

Table 3

| essential information | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------|---------------|----------|------------|--|------|
| Rated current of frame size | 63 | | 125 | | | 250 | | | 400 | | | 630 | | | 800 | | 1250 | | 1600 |
| Number of poles | 3P 3P+N、4P | 2P、3P 3P+N、4P | 2P、3P 3P+N、4P | 3P 3P+N、4P | 3P 3P+N、4P | 3P 3P+N、4P | | | | |
| Frequency (Hz) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | | |
| Rated working voltage Ue (V) | 400/415 | 400/415 660/690 | 400 | 400 | 400/690 | | | | | |
| Rated insulation voltage Ui (V) | 500 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 800 | 800 | 800 | | | | | |
| Rated impulse withstand voltage Uimp(kV) | 6 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 8 | 8 | 8 | | | | | |
| Rated working current In(A) | 10、16 | 16、20 | 100、125 | 225 | | | | | | | | 630 | 700 | | | | | | |
| | 20、25 | 25、32 | 160、180 | 250 | 400 | 630 | 700 | 800 | 800 | 800 | 800 | 800 | 800 | 1000 | | | | | |
| Rated working current In(A) | 32、40 | 40、50 | 200、225 | 315 | 500 | 700 | 800 | 800 | 800 | 800 | 800 | 1000 | 1250 | 1250 | | | | | |
| | 50、63 | 63、80 | 250 | 350 | 630 | 800 | 800 | 800 | 800 | 800 | 800 | 1000 | 1250 | 1400 | | | | | |
| Rated working current In(A) | 100、125 | 100、125 | 250 | 400 | 630 | 800 | 800 | 800 | 800 | 800 | 800 | 1000 | 1250 | 1600 | | | | | |
| Breaking capacity level | L | M | L | M | H | L | M | H | L | M | H | L | M | / | | | | | |
| Rated limit short circuit breaking capacity Icu (kA) | AC400/415V AC660/690V | 25 / | 50 / | 35 5 | 50 20 | 85 / | 35 5 | 50 20 | 85 / | 50 20 | 65 10 | 100 / | 50 10 | 65 30 | 100 30 | 50 / | 85 35 | | |
| Rated service short-circuit breaking capacity Ics (kA) | AC400/415V AC660/690V | 18 / | 25 / | 25 10 | 35 / | 55 / | 25 10 | 35 / | 55 / | 35 15 | 42 5 | 65 / | 35 5 | 45 20 | 65 / | 35 15 | 37.5 22 | | |
| Isolation function | Provided | Provided | | | | | |
| Usage category | Class A | Class A | | | | | |
| Service life | Mechanical | 20000 | 20000 | 20000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 5000 | 5000 | 2500 | | | | | |
| | Electrical | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 800 | 800 | 500 | | | | | |
| Arc distance (mm) | ≤ 50 | ≤ 50 | ≤ 50 | ≤ 100 | ≤ 100 | ≤ 100 | ≤ 100 | ≤ 100 | ≤ 100 | ≤ 100 | ≤ 120 | ≤ 120 | ≤ 120 | | | | | | |
| Accessory information | | | | | | | | | | | | | | | | | | | |
| Handle direct operation | <input checked="" type="checkbox"/> (Standard) | | | | | | |
| Extended rotary handle | <input type="checkbox"/> (Optional) | — | — | | | | | | |
| Electric operating mechanism | <input type="checkbox"/> (Optional) | | | | | | |
| Shunt release | <input type="checkbox"/> (Optional) | | | | | | |
| Undervoltage release | <input type="checkbox"/> (Optional) | — | — | | | | | | |
| Auxiliary contact | <input type="checkbox"/> (Optional) | | | | | | |
| Alarm contact | <input type="checkbox"/> (Optional) | | | | | | |
| Fixed type back panel | <input type="checkbox"/> (Optional) | — | — | | | | | | |
| Plug in type front panel | <input type="checkbox"/> (Optional) | — | — | | | | | | |
| Plug in type back panel | <input type="checkbox"/> (Optional) | — | — | | | | | | |
| Transition bar | <input type="checkbox"/> (Optional) | <input checked="" type="checkbox"/> (Standard) | <input checked="" type="checkbox"/> (Standard) | | | | | | |
| Interphase partition | <input checked="" type="checkbox"/> (Standard) | | | | | | |

iALM1 Molded Case Circuit Breaker

◆ Protection characteristics of overcurrent release

◇ Inverse time limit breaking action characteristics of circuit breaker overcurrent release for distribution when each pole is energized at the same time.

Table 4

| No. | Test current name | I/In | Conventional time | Initial state |
|-----|-----------------------------------|------|---|------------------------------------|
| 1 | Conventional non-tripping current | 1.05 | $\geq 2h$ ($In > 63A$), $\geq 1h$ ($In \leq 63A$) | Cold state |
| 2 | Conventional tripping current | 1.3 | $< 2h$ ($In > 63A$) $< 1h$ ($In \leq 63A$) | Start immediately after test No. 1 |

◇ Inverse time limit breaking action characteristics of overcurrent release of circuit breaker for motor protection when each pole is energized at the same time.

Table 5

| No. | I/In | Conventional time | Initial state | Remarks |
|-----|------|----------------------|------------------------------------|-----------------------|
| 1 | 1.0 | $\geq 2h$ | Cold state | |
| 2 | 1.2 | $< 2h$ | Start immediately after test No. 1 | |
| 3 | 1.5 | $\leq 4min$ | Cold state | $10 \leq In \leq 250$ |
| | | $\leq 8min$ | Cold state | $250 < In \leq 630$ |
| 4 | 7.2 | $4s \leq T \leq 10s$ | Cold state | $10 \leq In \leq 250$ |
| | | $6s \leq T \leq 20s$ | Cold state | $250 < In \leq 630$ |

◆ Protection characteristics of instantaneous overcurrent release

◇ The instantaneous action characteristic of the circuit breaker for distribution is set to $10In \pm 20\%$.

◇ The instantaneous action characteristic of the circuit breaker for motor protection is set to $12In \pm 20\%$.

Normal working and installation conditions

◆ Ambient air temperature

The upper limit of ambient air temperature is $+40^{\circ}\text{C}$; the lower limit of ambient air temperature is -5°C ; the average value of ambient air temperature for 24h shall not exceed $+35^{\circ}\text{C}$.

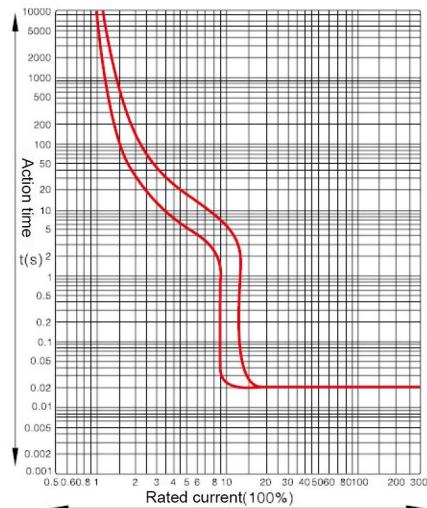
Altitude: the altitude of the installation site shall not exceed 2000m.

The relative humidity of the atmosphere shall not exceed 50% when the ambient air temperature is $+40^{\circ}\text{C}$; it can have higher relative humidity at lower temperature;

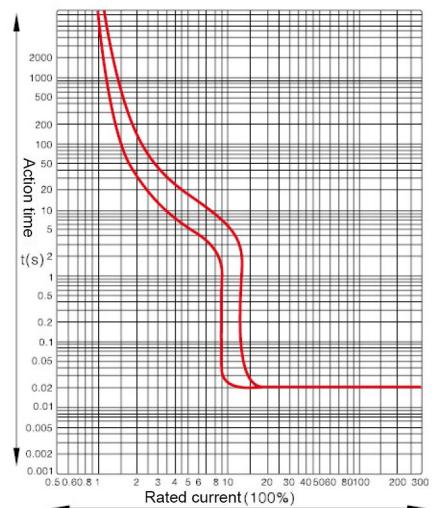
The monthly average maximum relative humidity in the wettest month is 90%, and the monthly average minimum temperature in that month is $+25^{\circ}\text{C}$, and the condensation on the product surface due to temperature change should be taken into.

Pollution level: Level 3.

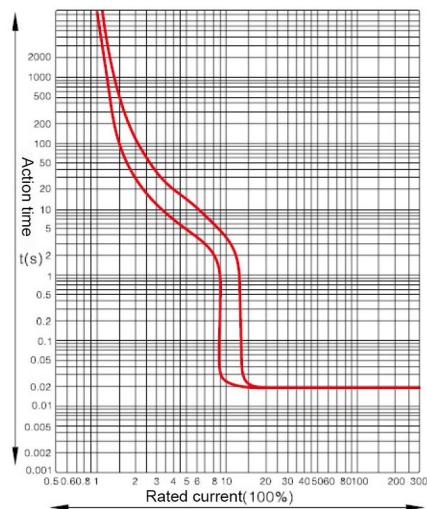
Installation category: II.

iALM1 Moulded Case Circuit Breaker**Circuit breaker characteristic curve**

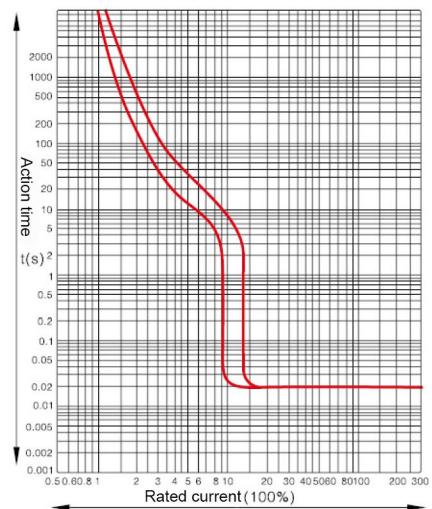
iALM1-63



iALM1-125



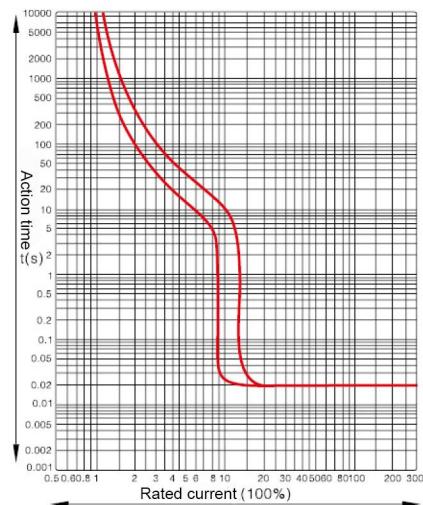
iALM1-250



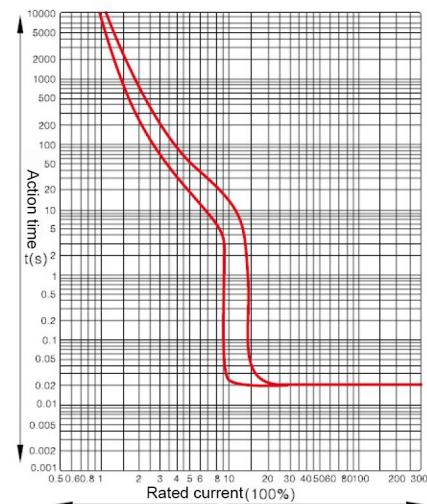
iALM1-400

iALM1 Moulded Case Circuit Breaker

Circuit breaker characteristic curve



iALM1-630

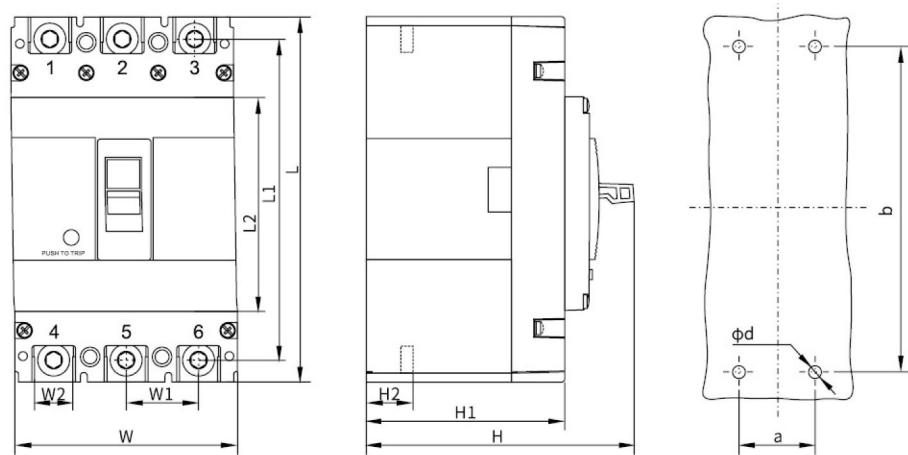


iALM1-800

iALM1 Moulded Case Circuit Breaker

Outline and installation dimensions

◆ Outline and installation dimension of front panel wiring of circuit breaker



M1-63~800 outline and installation drawing

(unit: mm)

| Product model | Number of poles | Overall dimension | | | | | | | | | Mounting dimension | | |
|---------------|-----------------|-------------------|-------|------|-----|------|----|------|-----|--------------------|--------------------|-------|-----|
| | | L | L1 | L2 | W | W1 | W2 | H | H1 | H2 | a | b | φd |
| M1-63L | 3 | 136 | 117 | 85 | 78 | 25 | 14 | 89 | 65 | 19 | 25 | 116.5 | 3.5 |
| | 4 | 136 | 117 | 86 | 102 | 25 | 14 | 89 | 65 | 19 | 50 | 116.5 | 3.5 |
| M1-63M | 3 | 136 | 117 | 85 | 78 | 25 | 14 | 98 | 74 | 27 | 25 | 116.5 | 3.5 |
| | 4 | 136 | 117 | 86 | 102 | 25 | 14 | 98 | 74 | 27 | 50 | 116.5 | 3.5 |
| M1-125L | 3 | 150 | 133.5 | 88.5 | 92 | 30.5 | 18 | 88.5 | 62 | 23.5 | 30 | 129 | 4.5 |
| | 4 | 150 | 133.5 | 88.5 | 122 | 30.5 | 18 | 88.5 | 62 | 23.5 | 60 | 129 | 4.5 |
| M1-125M | 3 | 150 | 133.5 | 88.5 | 92 | 30.5 | 17 | 105 | 79 | 23 | 30 | 129 | 4.5 |
| | 4 | 150 | 133.5 | 88.5 | 122 | 30.5 | 17 | 105 | 79 | 23 | 60 | 129 | 4.5 |
| M1-250L | 3 | 165 | 144 | 102 | 107 | 35.5 | 23 | 110 | 80 | 23 | 35 | 126 | 4.5 |
| | 4 | 165 | 144 | 102 | 142 | 35.5 | 23 | 110 | 81 | 23 | 70 | 126 | 4.5 |
| M1-250M | 3 | 165 | 144 | 102 | 107 | 35.5 | 23 | 126 | 99 | 24 | 35 | 126 | 4.5 |
| | 4 | 165 | 144 | 102 | 142 | 35.5 | 23 | 126 | 99 | 24 | 70 | 126 | 4.5 |
| M1-400L | 3 | 257 | 225 | 174 | 150 | 48 | 30 | 153 | 98 | Upper40 Lower38 | 44.5 | 194 | 7 |
| | 4 | 257 | 225 | 174 | 198 | 48 | 30 | 153 | 98 | Upper40 Lower38 | 94 | 194 | 7 |
| M1-630L | 3 | 270 | 237 | 185 | 180 | 58 | 44 | 160 | 104 | Upper45 Lower42 | 58 | 200 | 7 |
| | 4 | 270 | 237 | 185 | 240 | 58 | 44 | 160 | 104 | Upper45 Lower42 | 116 | 200 | 7 |
| M1-800M | 3 | 280 | 243 | 205 | 210 | 70.5 | 46 | 155 | 96 | Upper30 Lower35 | 70 | 243 | 7 |
| | 4 | 280 | 243 | 205 | 280 | 70.5 | 46 | 155 | 96 | Upper30 Lower35 | 140 | 243 | 7 |

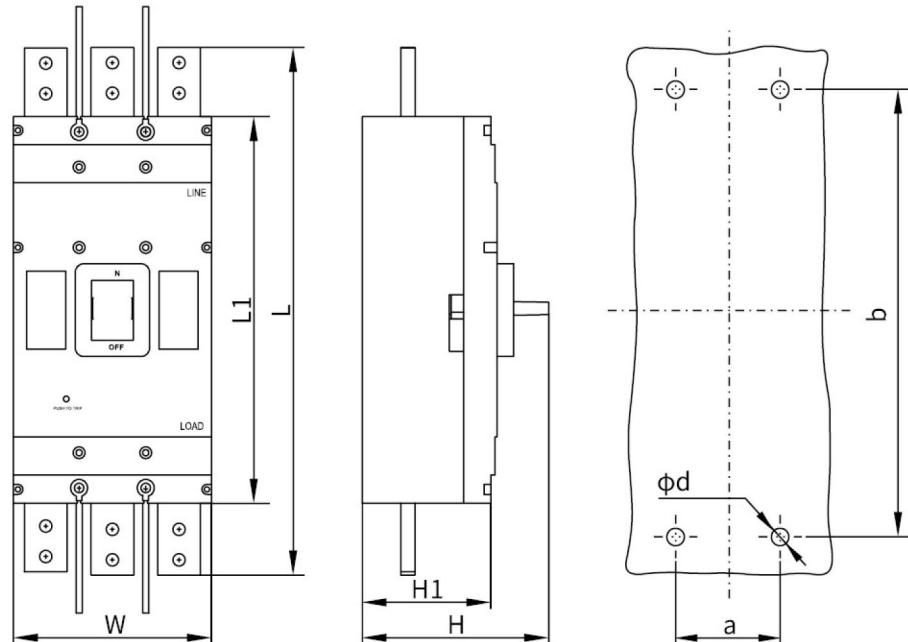
Note: 1 If any of shunt, auxiliary and alarm accessories is installed in the product, the width dimension on the installation side shall be increased by 18mm. If undervoltage release accessories are installed, the width dimension on the installation side shall be increased by 21mm.

2. Dimensions prefixed with "M" indicate threaded holes.

iALM1 Molded Case Circuit Breaker

Outline and installation dimensions

- ◆ Outline and installation dimension of front panel wiring of circuit breaker board



M1-1250、1600 outline and installation drawing

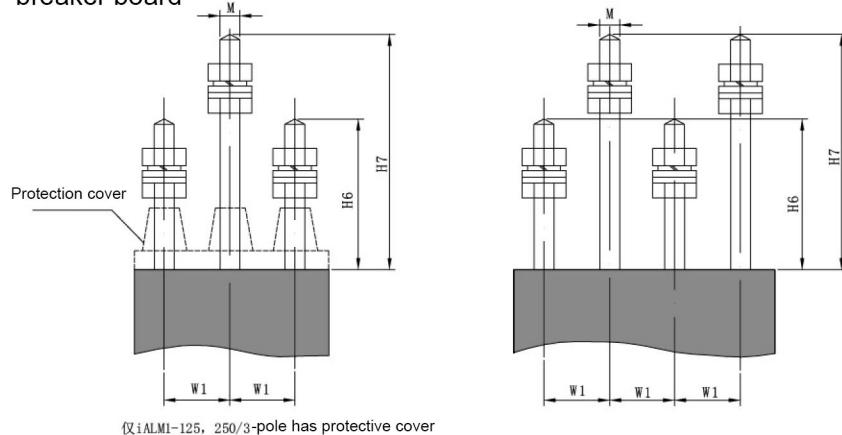
(unit: mm)

| Product model | Number of poles | Overall dimension | | | | | Mounting dimension | | |
|---------------|-----------------|-------------------|-----|-----|-----|-----|--------------------|-----|----|
| | | L | L1 | W | H | H1 | a | b | φd |
| M1-1250 | 3 | 470 | 330 | 210 | 191 | 137 | 70 | 299 | 9 |
| | 4 | 470 | 330 | 280 | 191 | 137 | 140 | 299 | 9 |

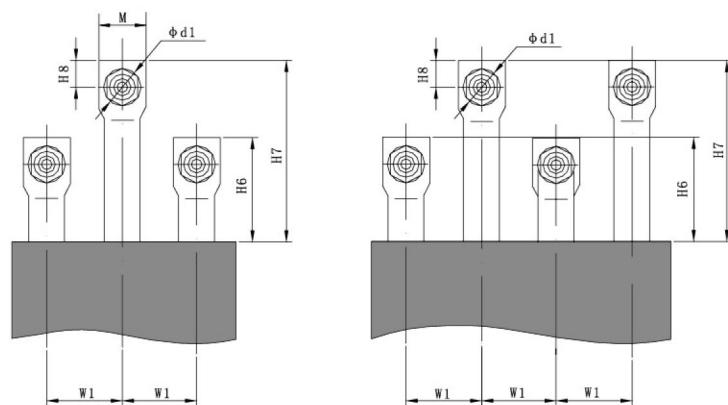
Note: the size of 1600A body is the same as that of 1250A model, and the total length of connecting plate (L) is 510mm.

iALM1 Moulded Case Circuit Breaker

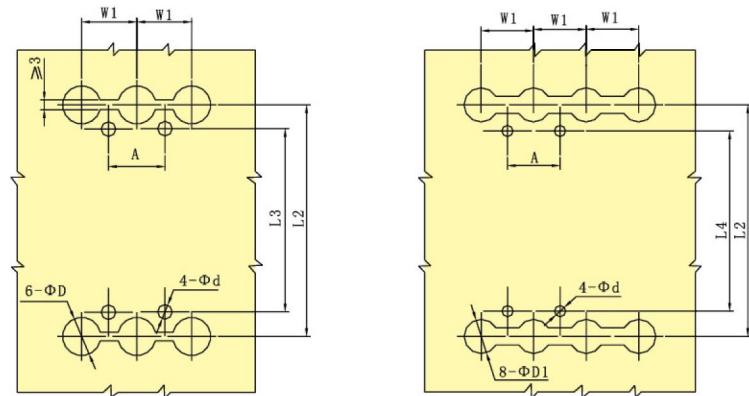
◆ Outline and installation dimensions of back-panel wiring of circuit breaker board



iALM1-63、125、250



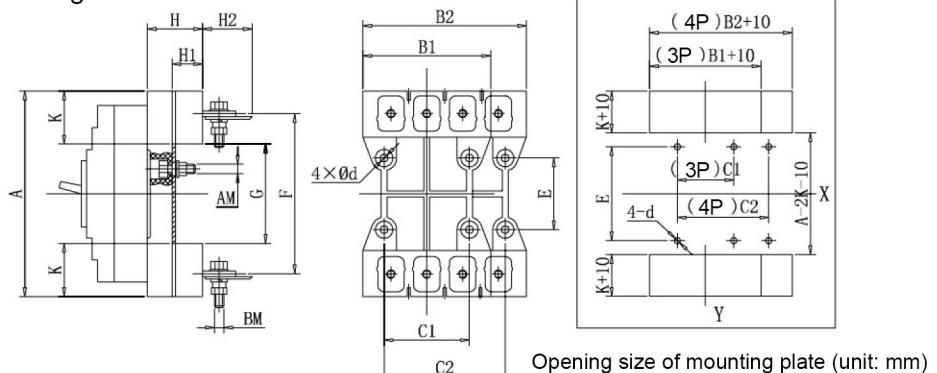
iALM1-400、630



Outline and installation dimensions of back-panel wiring

iALM1 Moulded Case Circuit Breaker

- ◆ Outline and installation dimensions of plug-in type back-panel wiring of circuit breaker



Outline and installation dimensions of iALM1 plug-in type back-panel wiring

Table 8

| Product model | Plug-in type overall installation dimension (mm) | | | | | | | | | | | | | Overall installation dimension of back-panel wiring (mm) | | | | | | | | | | | | | | |
|---------------|--|----------------|----------------|----------------|----------------|-----|-----|-----|----|----|----------------|----------------|-----|--|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|-----|----------------|-----|
| | A | B ₁ | B ₂ | C ₁ | C ₂ | E | F | G | K | H | H ₁ | H ₂ | AM | BM | 4-d | H ₆ | H ₇ | H ₈ | L ₂ | L ₃ | L ₄ | W ₁ | A | D | D ₁ | d | d ₁ | M |
| iALM1-63 | 135 | 75 | 100 | 50 | 75 | 60 | 117 | 100 | 18 | 28 | 18 | 16 | M5 | M5 | Φ5.5 | 34 | 53 | — | 117 | 100 | — | 25 | 25 | 7 | 7 | 4.5 | — | M6 |
| iALM1-125 | 168 | 91 | 125 | 60 | 90 | 56 | 132 | 92 | 38 | 50 | 33 | 28 | M6 | M8 | Φ6.5 | 50 | 80.5 | — | 132 | 129 | 129 | 30 | 30 | 23 | 10 | 4 | — | M8 |
| iALM1-250 | 186 | 107 | 145 | 70 | 105 | 54 | 145 | 94 | 46 | 50 | 33 | 37 | M6 | M8 | Φ6.5 | 59 | 89 | — | 144 | 126 | 126 | 35 | 35 | 24 | 12 | 5 | — | M10 |
| iALM1-400 | 281 | 144 | 188 | 88 | 132 | 145 | 224 | 181 | 50 | 60 | 38 | 46 | M8 | M12 | Φ8.5 | 58 | 87 | 19.5 | 224 | 215 | — | 44 | 44 | 30 | 30 | 6 | 12.4 | 30 |
| iALM1-630 | 300 | 182 | 242 | 100 | 158 | 123 | 234 | 170 | 65 | 60 | 39 | 50 | M8 | M12 | Φ8.5 | 65 | 65 | 21.5 | 234 | 200 | — | 58 | 58 | 36 | 36 | 7 | 16 | 36 |
| iALM1-800 | 305 | 210 | 280 | 90 | 162 | 143 | 243 | 178 | 62 | 87 | 60 | 22 | M10 | M14 | Φ11 | | | | | | | | | | | | | |

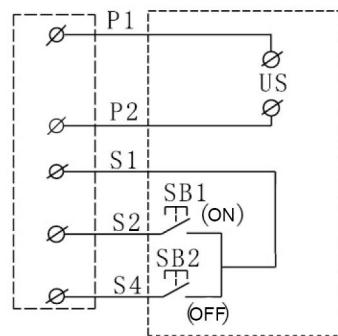
Note: dimensions prefixed with "M" are thread dimensions.

- ◆ Installation and electrical wiring diagram of motor operating mechanism
◇ iALM1-63, 125, 250, 400, 630, 800-CD2 electric operation



iALM1 Moulded Case Circuit Breaker

◇ Wiring diagram of ordinary electric operating mechanism (voltage: AC230V, AC4000V)



◇ Overall dimensions of electric operating mechanism

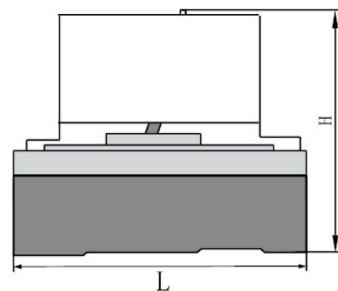


Table 9

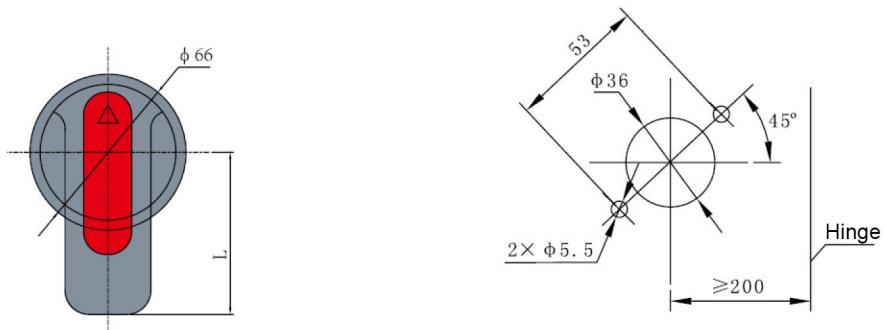
| Electric operation model | Size (mm) | Product model | | | | | | | | | | |
|--------------------------|-----------|---------------|-----|------|------|------|---------|------------|------------|---------|------|------|
| | | 63L | 63M | 125L | 125M | 250L | 250M, H | 400L, M, H | 630L, M, H | 800L, M | 1250 | 1600 |
| CD2 | L | 135 | 135 | 150 | 150 | 165 | 165 | 257 | 270 | 280 | 552 | 506 |
| | H | 158 | 164 | 157 | 173 | 174 | 192 | 250 | 250 | 250 | 312 | 253 |

Note: CD2 electric operation connecting plate is an optional accessory.

◆ Installation of rotary handle operating mechanism

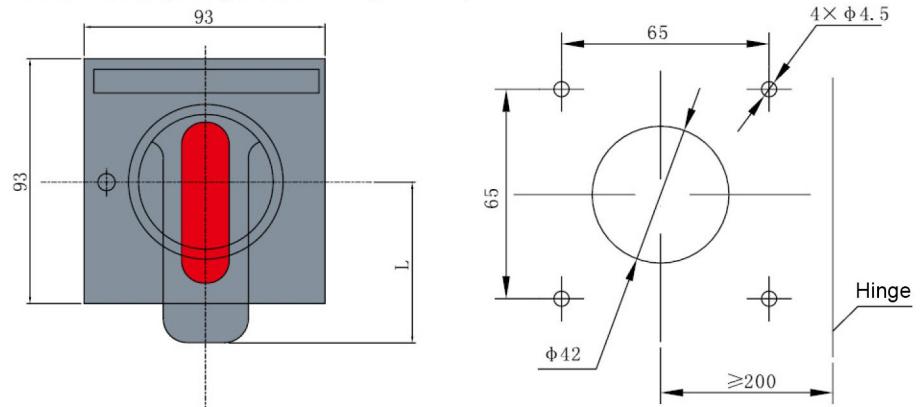
◇ Outline and opening schematic diagram of circular handle

Unit: mm



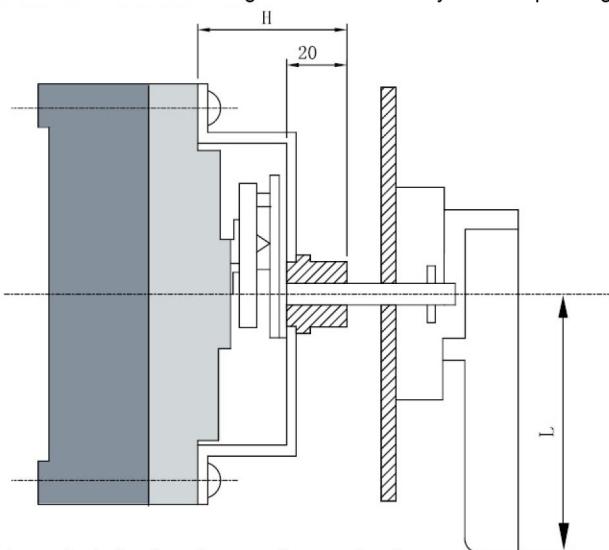
iALM1 Moulded Case Circuit Breaker

◇ Outline and opening schematic diagram of square handle



Installation of rotary handle operating mechanism

◇ Outline and installation schematic diagram of central rotary handle operating mechanism



Overall dimensions of rotating handle operating mechanism

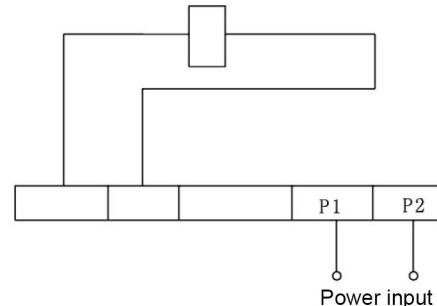
Table 10

| Circuit breaker model | H (mm) | L (mm) |
|-----------------------|--------|--------|
| iALM1-63 | 51 | 65 |
| iALM1-125 | 52 | 65 |
| iALM1-250 | 56 | 95 |
| iALM1-400 | 78.5 | 125 |
| iALM1-630 | 88 | 125 |
| iALM1-800 | 87 | 125 |

iALM1 Moulded Case Circuit Breaker

Internal accessories

- ◆ Undervoltage release

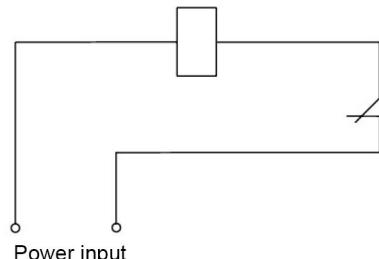


Rated working voltage Ue: AC220V/230V, AC380V/400V

When the voltage drops (even slowly) to 70%-35% of the rated voltage, the undervoltage release shall act; when the supply voltage of the undervoltage release is lower than 35% of the release voltage, the undervoltage release shall prevent the circuit breaker from closing; when the supply voltage is equal to or greater than 85%, the circuit breaker shall be able to be closed.

Special reminder: for the circuit breaker with undervoltage release, the circuit breaker can be opened and closed normally only when the undervoltage release is connected with the rated voltage, otherwise the circuit breaker will be damaged.

- ◆ Shunt release



Rated control supply voltage Us: AC220V / 230V, AC380V / 400V,
DC24V, dc110v

The circuit breaker shall open at 70% - 110% of the rated voltage.

Note: when the voltage specification is DC24V, the rated current of the control circuit must reach 5A.

iALM1 Molded Case Circuit Breaker

◆ Auxiliary contact

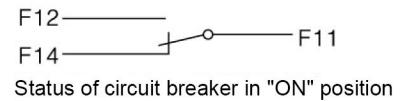
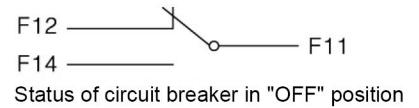


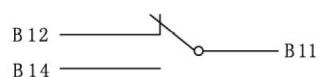
Table 11

| Frame size | Conventional heating current Ith (3A) | Rated current of AC400 Ie (A) | Rated current of DC230 Ie (A) |
|--|---------------------------------------|-------------------------------|-------------------------------|
| $I_{thm} \leqslant 63A$ | 3A | 0.4A | 0.15A |
| $125 \leqslant I_{thm} \leqslant 250A$ | | 0.3A | 0.15A |
| $400 \leqslant I_{thm} \leqslant 630A$ | | 3A | 0.2A |
| $I_{thm} \geqslant 800A$ | | 0.4A | 0.15A |

◆ Alarm contact



Status of circuit breaker in free tripping (alarm)



Status of circuit breaker in "OFF" and "ON" positions

When the circuit breaker is normally closed and opened, the alarm contact does not act. Only after tripping (or fault tripping), the contact changes its original position, that is, normally open to closed and normally closed to open. After the circuit breaker re-trips, the alarm contact will return to the original state.

iALM1 Moulded Case Circuit Breaker

Standard cross-sectional area of copper conductor used for connection

Table 12

| Rated current (A) | 10 20 | 16 25 | 25 32 | 32 40 | 40 50 | 63 | 80 | 100 | 125 | 160 | 180 225 | 250 | 315 350 | 400 |
|---|----------|----------|----------|----------|----------|----|----|-----|-----|-----|------------|-----|------------|-----|
| Conductor cross-sectional area (mm ²) | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 185 | 240 |

| Rated current (A) | Copper conductor | | | Copper busbar | |
|-------------------|------------------|-----------------------------------|--|---------------|-----------------------------------|
| | Qty. | Sectional area (mm ²) | | Qty. | Sectional area (mm ²) |
| 500 | 2 | 150 | | 2 | 30×5 |
| 630 | 2 | 185 | | 2 | 40×5 |
| 800 | 2 | 240 | | 2 | 50×5 |
| 1250 | — | — | | 2 | 80×5 |
| 1600 | — | — | | 2 | 50×10 |

Ordering instructions

The user must specify the following items when ordering:

- Model, name and number of poles of circuit breaker.
- Rated current of circuit breaker.
- Name, specification and combination code of accessories of circuit breaker; when using under-voltage release and shunt release, the voltage value of working voltage (or control supply voltage) shall be indicated.
- Purpose: for power distribution (delivery as power distribution use if not indicated), for motor protection (represented by 2).
- Wiring mode: front-panel wiring (delivery as front-panel wiring if not indicated), back-panel wiring and plug-in type.
- Quantity.

For example:

iALM1-125, standard L, three pole, circuit breaker current (rated current) 100A, with shunt release of AC 380V and alarm contact, external terminal for power distribution, front-panel wiring, quantity: 20 sets. It shall be written as: iALM1-125L/ 3318, 100A, AC380V, external terminals, 20sets.

iALM1 Molded Case Circuit Breaker

iALM1 series moulded case circuit breaker quick selection table

| iALM1 | - | 125 | 1 | Z | / | 4 | 3 | 10 | 2 | B | T | 125 | AC230V | B | | | | | |
|-------------------------------|---|-----|---|---|---|---|---|----|---|---|---|-----|--------|---|--|--|--|--|--|
| Product model | iALM1 Molded Case Circuit Breaker | | | | | | | | | | | | | | | | | | |
| Frame size rated current code | 63 : 63A 125 : 125A 250 : 250A 400 : 400A | | | | | | | | | | | | | | | | | | |
| Operation mode | L: Standard M: Higher H: High break | | | | | | | | | | | | | | | | | | |
| Number of poles | Z: Tripping mode 2: Short circuit protection 3: Overload + short circuit 4: 2.2P 5: 3.3P 6: 4.4P | | | | | | | | | | | | | | | | | | |
| Tripping mode | Default: direct operation Z: Rotary handle operation P: Electric operation | | | | | | | | | | | | | | | | | | |
| Purpose | 1: no accessory 10 - shunt release 10 - load release 20 - auxiliary contact | | | | | | | | | | | | | | | | | | |
| Internal accessories | 2: Short circuit protection 3: Overload + short circuit 4: 2.2P 5: 3.3P 6: 4.4P | | | | | | | | | | | | | | | | | | |
| N-pole code | T: Transparent cover B: Fixed back-panel C: After the default is plug-in type back-panel, it is available in standard for the plug-in type front-panel | | | | | | | | | | | | | | | | | | |
| Additional info | A: The three protective poles and zero line are connected and not disconnected from other poles. B: The three protective poles, zero line and other contacts are connected together. C: The four protective poles are connected together. D: The four protective poles and zero line and other poles are connected with other poles. | | | | | | | | | | | | | | | | | | |
| Accessory voltage | AC380/400V AC220/230V DC24V | | | | | | | | | | | | | | | | | | |
| Installation mode | Default: general application Fixed front-panel Fixed back-panel | | | | | | | | | | | | | | | | | | |
| Accessory voltage | Default: interphase partition Mechanical interlocking | | | | | | | | | | | | | | | | | | |