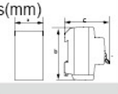
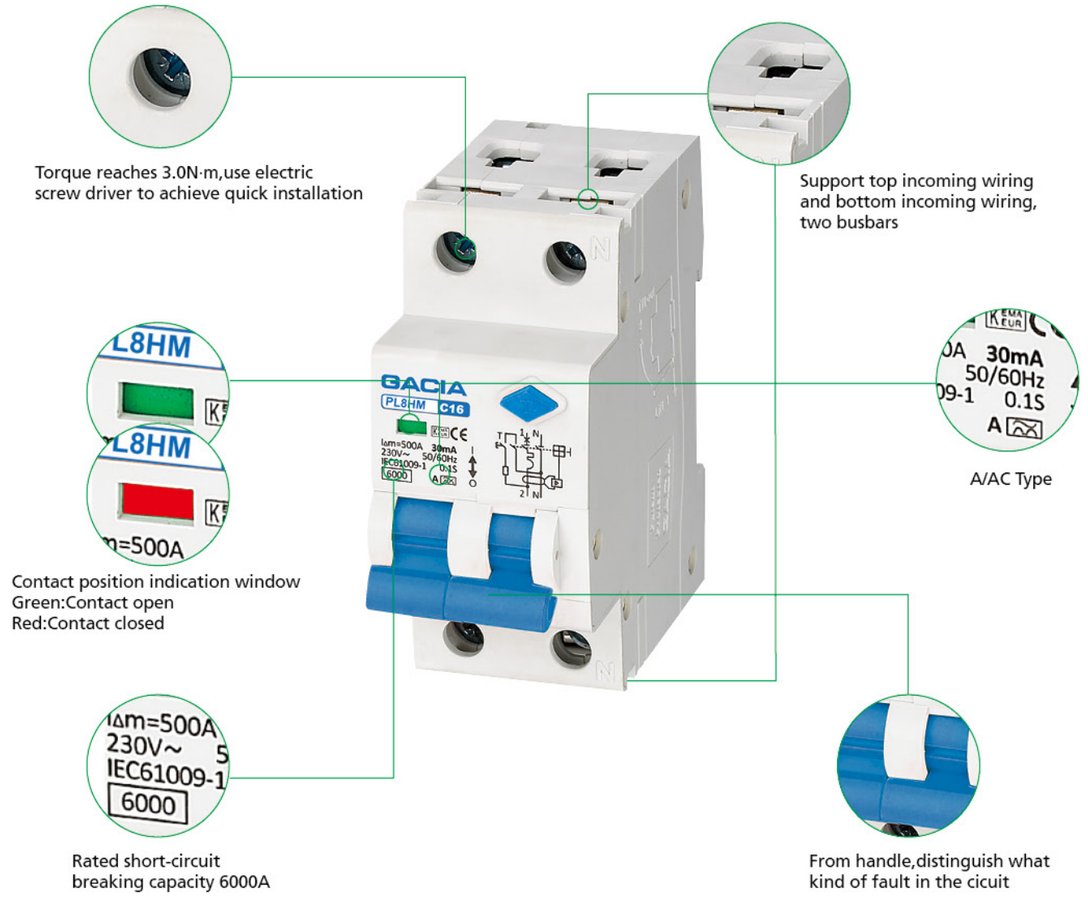
| Model | | | PL8HM | PL8HE | PL8NT |
|---|---|---|---|---|---|
| IEC/EN 61009-1 | | |  |  |  |
| Poles | | | 1P+N | 1P+N | 1P+N |
| Certification | | | KEMA CE | KEMA CE | KEMA CE |
| **Electrical Specifiction** | | | | | |
| Rated current(A) | | In | 6-32 | 6-32 | 6-32 |
| Rated frequency(Hz) | | | 50/60 | 50/60 | 50/60 |
| Rated working voltage(V) | | Ue | 230 | 230 | 230 |
| Rated insulated voltage(V) | | Ui | 400 | 400 | 400 |
| Rated impulse withstand voltage(kV) | | Uimp | 4 | 4 | 4 |
| Rated short-circuit breaking capacity(KA) | | Ics | 6 | 6 | 4.5 |
| Rated Residual current(mA) | | IΔn | 30,100,300 | 30,100,300 | 30,100,300 |
| Thermo-magnetic release characteristic | | | B,C,D | B,C,D | B,C |
| Residual current protection type | | | Electromagetic | Electronic | Electronic |
| Residual current working type | | | A,AC | A,AC | A,AC |
| Rated residual making and breaking capacity(A) | | Im/I Δ m | 500 | 500 | 500 |
| Dielectric test voltage(kV) | | | | 2.5 | |
| Service life (O-C) | Mechanical | Standard value | 4000 | 4000 | 400 |
| | Electrical | Standard value | 2000 | 2000 | 2000 |
| **Control And Indication** | | | | | |
| Shunt release(SHT) | | | | ■ | |
| Undervoltage release(UVT) | | | | ■ | |
| Auxiliary contact(AUX) | | | | ■ | |
| Alarm contact(ALT) | | | | ■ | |
| Contact position indicator | | | | ■ | |
| Fault indication | | | | - | |
| **Connection And Installation** | | | | | |
| Ambient temperature(with daily average≤35℃) | | | | -5℃ ~+40℃ | |
| Protection degree | ALL sides | | | IP40 | |
| | Connection terminal | | | IP20 | |
| Wire($mm^2$) | | | 1-16 | 1-16 | 1-6 |
| busbar($mm^2$) | | | 16 | 16 | - |
| Mounting | | | Cable/Busbar | Cable/Busbar | Cable |
| Pollution degree | | | | 2 | |
| Reference temperature for setting of thermal element(℃) | | | | 30 | |
| Storage temperature(℃) | | | | -25℃ ~+70℃ | |
| Tightening torque | | | 3.0 | 3.0 | 2.0 |
| Connection | | | Top and bottom | Top | Top |
| Dimensions(mm) (WxHxL)  | a(2P) | | | 35.7 | 17.7 |
| | b(2P) | | | 87 | 87 |
| | c(2P) | | | 77.5 | 77.5 |
| Weight(kg) | 2P | | | 0.18 | 0.11 |

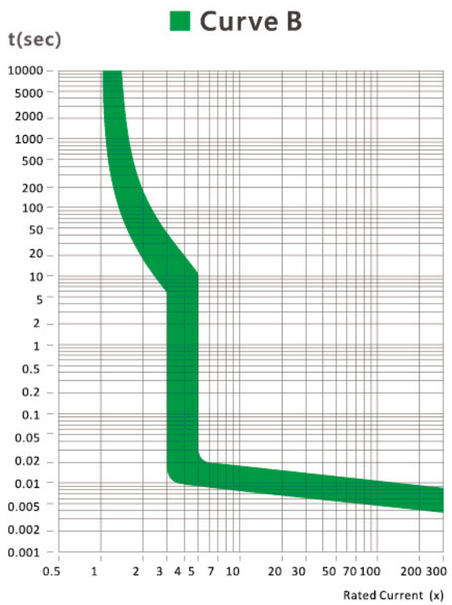
■ Default □ Optional – None

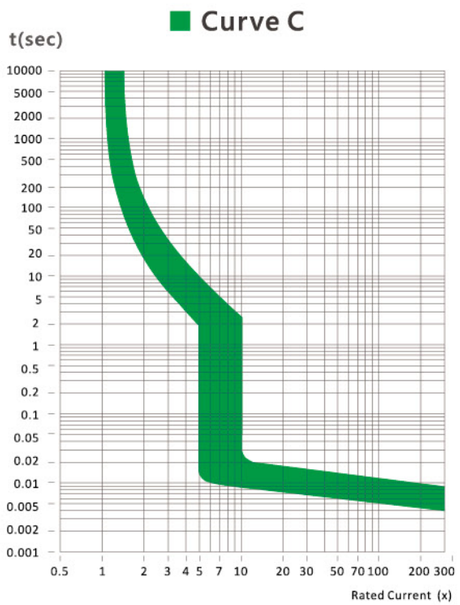


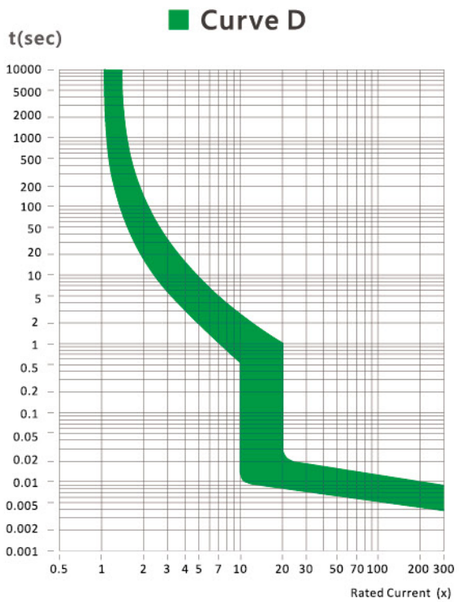

## Normal Working Conditions and Installation Conditions

- Ambient Temperature: -5℃ ~+40℃ .
- Height above Sea Level: ≤ 2000m
- Installation Category: II, III
- Pollution Degree: 2
- The installation type adopts standard steel guide rail installation (TH35-7.5).
- Installation Conditions: The external magnetic field of the installation site shall not exceed 5 times of the earth's magnetic field in any direction. When over voltage residual current moves, the circuit breaker shall be installed vertically, and the upward position of the handle shall be connected to the power. The installation should be free from obvious impact and vibration.
- Mode of Connection: Use screws to press the wiring.

## Characteristics Curve

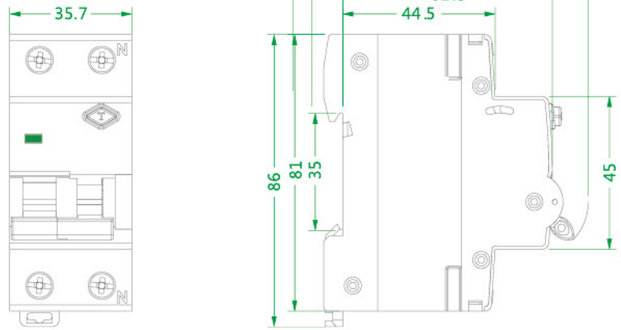


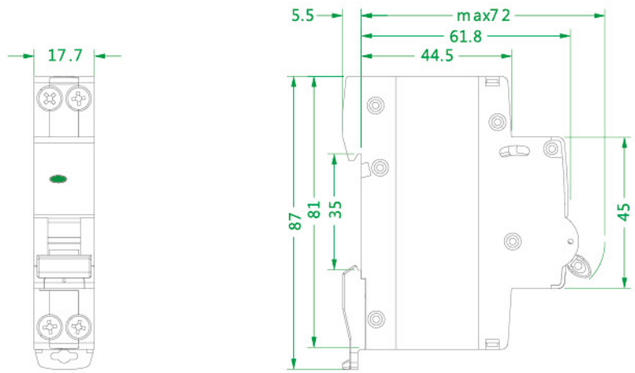



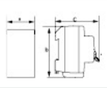

## Dimensions

◆ PL8HM/PL8HE

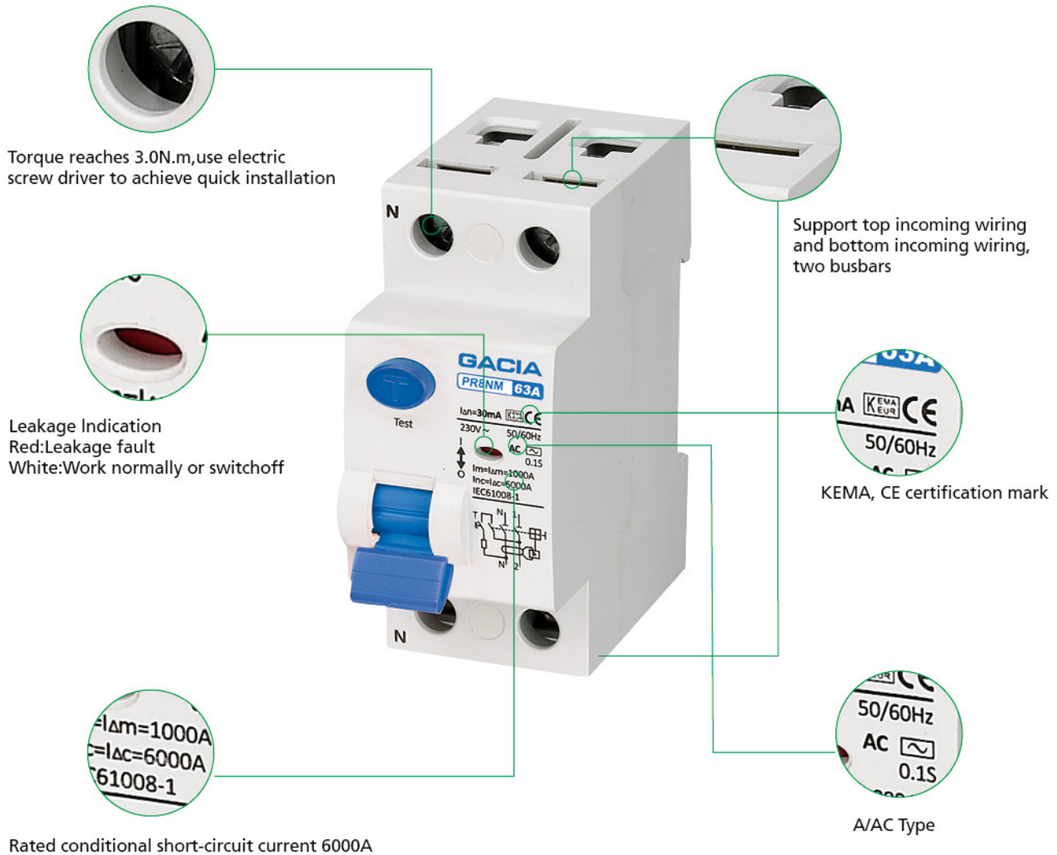



◆ PL8NT



| Model | | | PR8NM | PR8HM | PR8NE | PR8HE |
|---|---|---|---|---|---|---|
| IEC/EN 61008-1 | | |  |  |  |  |
| Poles | | | 2P,4P | 2P,4P | 2P,4P | 2P,4P |
| Certification | | | KEMA CE | KEMA CE | KEMA CE | KEMA CE |
| Electrical Specifiction | | | | | | |
| Rated current(A) | | In | 16-100A | 16-100A | 16-100A | 16-100A |
| Rated working voltage(V) | | ue | 2P:230,4P:400 | 2P:230,4P:400 | 2P:230,4P:400 | 2P:230,4P:400 |
| Rated insulated voltage(V) | | ui | 500 | 500 | 500 | 500 |
| Impulse withstand voltage(kV) | | uimp | 6 | 6 | 6 | 6 |
| Rated conditional short-circuit current(kA) | | Inc | 6 | 10 | 6 | 10 |
| Rated Residual current(mA) | | I △ n | 10,30,100,300 | 10,30,100,300 | 10,30,100,300 | 10,30,100,300 |
| Rated Residual making and breaking capacity(A) | | I △ m | 1000 | 1000 | 1000 | 1000 |
| Residual current working type | | | AC,AC+S,A,A+S | AC,AC+S,A,A+S | AC,AC+S,A | AC,AC+S,A |
| Residual current Protection type | | | Electromagnetic | Electromagnetic | Electronic | Electronic |
| Dielectric test voltage(kV) | | | 2.5 | | | |
| Service life (O-C) | Mechanical Standard value | | 4000 | | | |
| | Electrical Standard value | | 2000 | | | |
| Control And Indication | | | | | | |
| Shunt release(SHT) | | | - | | | |
| Undervoltage release(UVT) | | | - | | | |
| Auxiliary contact(AUX) | | | - | | | |
| Alarm contact(ALT) | | | - | | | |
| Contact position indicator | | | - | | | |
| Fault indication | | | □ | | | |
| Connection And Installation | | | | | | |
| Ambient temperature(with daily average≤35℃) | | | -5℃ ~+40℃ | | | |
| Protection degree | ALL sides | | IP40 | | | |
| | Connection terminal | | IP20 | | | |
| Wire($mm^2$) | | | 35 | | | |
| busbar($mm^2$) | | | 35 | | | |
| Mounting | | | Cable/Busbar | | | |
| Pollution degree | | | 30 | | | |
| Reference temperature for setting of thermal element(℃) | | | 2 | | | |
| Storage temperature(℃) | | | -25℃ ~+70℃ | | | |
| Tightening torque | | | Top and bottom | Top and bottom | Top | Top |
| Connection | | | 36/72 | | | |
| Dimensions(mm) (WxHxL) |  | a(2P) | 87/87 | | | |
| | | b(2P) | 79.5/79.5 | | | |
| | | c(2P) | 0.17 | | | |
| Weight(kg) | | 2P | 0.34 | | | |

■ Default □ Optional – None




## Normal Working Conditions and Installation Conditions

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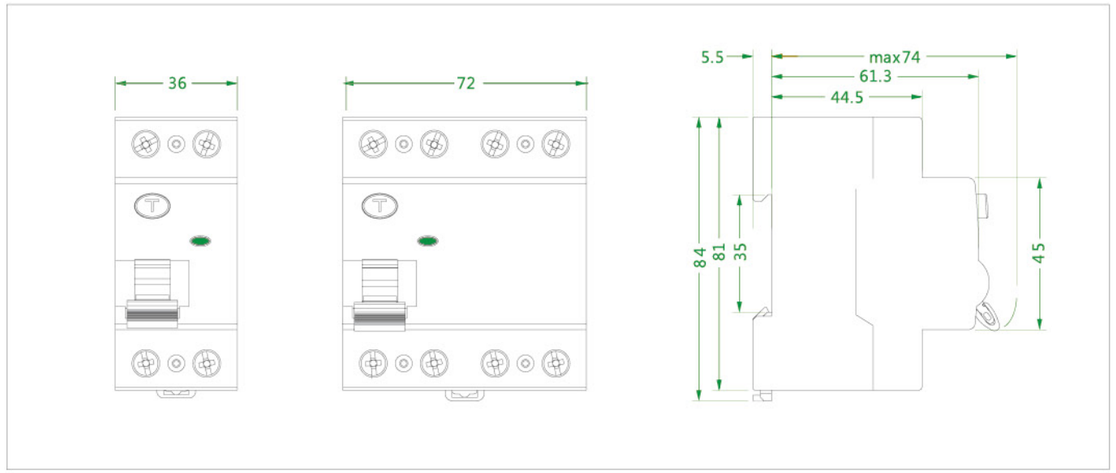
- Height above Sea Level: ≤ 2000m
- Installation Category: II, III
- Pollution Degree: 2
- The installation type adopts standard steel guide rail installation (TH35-7.5).
- Installation Conditions: The external magnetic field of the installation site shall not exceed 5 times of the earth's magnetic field in -any direction. When over voltage residual current moves, the circuit breaker shall be installed vertically, and the upward position of -the handle shall be connected to the power. The installation should be free from obvious impact and vibration.
- Mode of Connection: Use screws to press the wiring.

## Dimensions

◆ PR8NM/PR8HM/PR8NE/PR8HE




## The combination of electrical accessory devices.

AUX
Auxiliary contact

ALT
Alarm contact

SHTA
Shunt release+aux

OUVT
Over&under-voltage release

Mini circuit breaker

## Remote indicating accessories

### AUX auxlilary contact

Function:indicate the open and close state of circuit breaker.
Application:distant indication of circuit breaker state.

### ALT Alarming contact

Function:send signal at the time of fault tripping of circuit breaker. On the front panel,there is mechanical indication which can indicate fault tripping.

### AUX+ALT/AUX double switching contact

Function: two switching contact can
Indicate the "open" or "closed" state of circuit breaker with OFF.
Indicate the failure trip of circuit breaker.
Application: two loops Up :AUX
Down: ALT and AUX
Select functions with the rotating switch on the right.
Selecting function indicated on the front cover of the device.
Be a red indicator on the front cover of the pevice when failure trips.

## Tripping accessories

Red tripping indicator on the front cover of the device.

### SHT shunt release, SHTA shunt release+aux

Function: when it gets signal, it triggers the circuit breaker to trip.
SHTA: it includes a condition indication contact to indicate the on/off state of circuit breakers.
Application: distant control can achieve emergency breaking.
Distant indication of circuit breaker state.

### UVT under-voltage release

Function: when power voltage lowers(35%~70%Un), it makes circuit breaker trip; when power is not supplied normally, it prevents circuit breaker from reconnecting to the circuit.
0.2S time delay prevents the temporary lowering of voltage from causing mistrip.
Application: preventing machine from restarting without control signal, ensuring safety.

### OVT over-voltage release

Function: monitor voltage between phase line and neutral line. When voltage rises( for example, neutral line is broken), it triggers circuit breakers to trip.
Rated tripping voltage range:280vac+/-5%.
Application: preventing over-voltage from damaging circuit and equipement.

### OUVT Over&under-voltage release

Function: it has function of over-voltage release, and function of making circuit breaker trip when power voltage lowers.
Rated tripping voltage range:280vac+/-5%.
Rated under-voltage tripping range: 55 ~160v.
Application: preventing over-voltage and under-voltage from damaging circuit and equipment.