
Earth leakage breaker factory in London

What is an earth leakage circuit breaker?

Figure 1: An earth leakage circuit breaker An Earth Leakage Circuit Breaker (ELCB) helps protect people and equipment from electrical shocks. It detects and stops an electrical current that leaks to earth, meaning the current diverts from its intended path and flows into the ground.

What is earth leakage?

Earth leakage describes an abnormal or unintended state when electrical current leaks from an electrical appliance or circuit to the earth. The following are the most common reasons why earth leakage occurs: Insulation failure: Insulation failure (Figure 2) can occur due to age, temperature, or physical damage to the insulation.

What causes earth leakage?

Human error: Improper installation can cause earth leakage. Earth leakage's potential consequences and dangers include electrical shock, fire, and other hazardous electrical incidents. Examples of appliances and circuits prone to earth leakage are refrigerators, washing machines, power tools, and lighting circuits.

This section provides an overview for earth-leakage circuit breakers as well as their applications and principles. Also, please take a look at the list of 22 earth-leakage circuit breaker ...

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