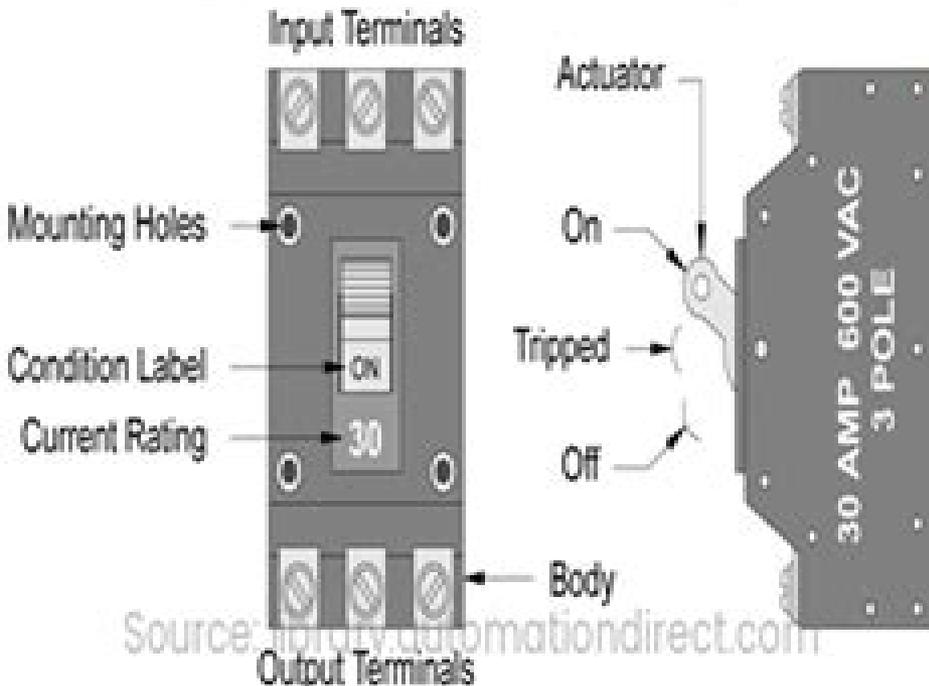


# How Do Fuses And Circuit Breakers Work?

- Fuses and circuit breakers are essential components in electrical systems, serving to protect equipment and enhance safety by preventing overloads, short circuits, and other electrical faults
- Fuses are one-time-use devices that use a metal strip, which melts under excessive current, thereby disconnecting the circuit
- In contrast, circuit breakers are reusable, automatically interrupting current flow when a fault is detected using thermal, magnetic, or a combination of both mechanisms
- While both serve the same purpose, fuses need to be replaced after use, while circuit breakers can be reset



## DIFFERENCE BETWEEN FUSE AND CIRCUIT BREAKER



FUSE

- Works on the thermal and electrical properties of the conducting materials



CIRCUIT BREAKER

- Works on the switching principle and electromagnetism

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# Fuses Circuit Breakers Lecture Notes

**Shasha Hu**



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