

1. The primary function of a fuse is to

- A. Open the circuit
- B. Protect the appliance
- C. Protect the line
- D. Prevent excessive currents from flow through the circuit

✓ View Answer

D. Prevent excessive currents from flow through the circuit

👤 Your Comments

Fuse

Advantages

- It is the cheapest protection in the electrical circuit.
- It can break heavy short-circuit current.
- Maintenance free device.
- Inverse time-current characteristics of a fuse to make over-load protection.
- Minimum time of operation.
- Its operation is completely automatic.
- Smaller in size.
- It can break high short-circuit current without any noise or smoke.

Disadvantages

- On heavy short-circuits, discrimination between fuses in series cannot be obtained unless there is sufficient difference in the sizes of the fuses concerned.
- Considerable time is lost in rewiring or replacing a fuse after replacing.
- The time-current characteristic of a fuse cannot always be co-related with that of the protected apparatus.

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2. The fuse rating is expressed in terms of

- A. Current
- B. Voltage
- C. VAR
- D. KVA

✓ View Answer

A. Current

👤 Your Comments

3. if use is never inserted in

- A. Neutral wire
- B. Negative of DC circuit
- C. Positive of DC circuit
- D. Phase line

✓ View Answer

A. Neutral wire

4. Fuses have got advantages of

- A. Cheapest type of protection
- B. Inverse time current characteristic
- C. No Maintenance
- D. Current limiting effect under short-circuit conditions
- E. All of the above

✓ View Answer

E. All of the above


👤 Your Comments

5. Protection by fuses is generally not used beyond

- A. 20 A
- B. 50 A
- C. 100 A
- D. 200 A

✓ View Answer

C. 100 A

 Your Comments

Q1. Fuse is a device which is used for _____.

- a. protection
- b. amplification
- c. impedance matching
- d. none of above

Answer: a

Q2. Fuse are connected in Parallel. True / False

Answer: False (Series)

Q3. Fuse are used in circuit for _____.

- a. Equipment Safety
- b. Human Safety
- c. None of Above
- d. a & b are correct

Answer: d

Q4. The best material used for Fuse is Copper. True / False

Answer: True

Q5. Fuse is an Electronic Component used for _____.

- a. current limiting
- b. power limiting
- c. a & b are correct
- d. none of above

Answer: a

Q6. HRC stands for High Rupturing Capacity. True / False

Answer: True

Q7. The melting point of Fuse element is _____.

- a. low
- b. medium
- c. high
- d. all are correct

Answer: c

Q8. HRC Fuse works better on Short Circuit. True / False

Answer: True

Q9. HRC Fuse used in _____.

- a. industrial motors
- b. domestic wiring
- c. distribution system
- d. all are correct

Answer: **a**

Q10. Fuse operates when current and temperature increases. True / False

Answer: **True**

Q11. Fuse wire are always connected with _____.

- a. Phase
- b. neutral
- c. earth
- d. all are correct

Answer: **a**

Q12. The body of Rewirable fuse is made up of Bakelite. True / False

Answer: **True**

Q13. The part of fuse where the fuse wire is installed are called _____.

- a. fuse link
- b. fuse base
- c. none of above
- d. a & b are correct

Answer: **a**

Q14. Fuse works as result of heating effect of current. True / False

Answer: **True**

Q18. The fuse used on both high and low current is called HRC Fuse. True / False

Answer: **True**

Q19. The operating time of HRC fuse is _____.

- a. 0.01 sec
- b. 0.001 sec
- c. 0.1 sec
- d. 1 sec

Answer: **b**

Q1. The device used for operating the electrical devices is_____.

- a. circuit breaker
- b. switch
- c. transformer
- d. all are correct

Answer: **a**

Q2. The pulse for operating the circuit breaker is come from Relay. True / False

Answer: **True**

Q3. In oil circuit breaker, the oil is used for _____.

- a. cooling
- b. quenching
- c. insulation
- d. All are correct

Answer: **d**

Q4. Circuit breaker is a device used On and Off operation during normal and abnormal condition.

True / False

Answer: **True**

Q5. In bulk oil circuit breaker the quantity of oil is _____.

- a. high
- b. zero
- c. low
- d. a & b are correct

Answer: **a**

Q6. The resistance of motor starter is connected in series with armature. True / False

Answer: **True**

Q7. In low oil circuit breaker the quantity of oil is _____.

- a. low
- b. high
- c. zero
- d. all are incorrect

Answer: **a**

Q8. The motor stator works to decreases starting current. True / False

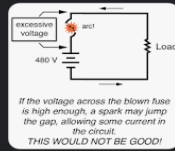
Answer: **True**

The main difference between fuse and circuit breakers is that **fuses cannot be reused while circuit breakers can be reused over and over again**. Circuit breakers are used to protect homes and devices against overloading and short-circuiting while fuses protect devices and homes against overloading only.

Fuses and circuit breakers are **both designed to interrupt the flow of electricity**. ... The fuse works as a piece of metal that melts down when overheated. While a circuit breaker works by operating a switching mechanism when an overflow of electricity is detected.

How are fuses and circuit breakers connected?

Fuses are **always connected in series with the component(s) to be protected from overcurrent**, so that when the fuse blows (opens) it will open the entire circuit and stop current through the component(s). ... The most common device in use for overcurrent protection in high-current circuits today is the circuit breaker.



<https://www.allaboutcircuits.com> > direct-current > chpt-12

Fuses | Physics Of Conductors And Insulators | Electronics Textbook

Search for: How are fuses and circuit breakers connected?

What is the difference between circuit breaker and short circuit?

A short circuit is an abnormal connection between **two nodes** of an electric circuit intended to be at different voltages. ... Similar to a short circuit, large amounts of current are forced to flow through the fuse or circuit breaker, causing a fuse to blow or a circuit breaker to trip.

What is the difference between a switch and circuit breaker?

Simply put, a switch is designed to switch power on and off, a **circuit breaker "breaks" the circuit in an overload or fault condition**. Switches switch and breakers break. These differences are crucial to understanding their safety and practicality.

Circuit Breaker vs. Switch:
Can You Use a Circuit Breaker as a Switch?

What is difference between switch and fuse fuse?

In Switch-Fuse Unit, **fuses are fixed**, but in Fuse-Switch Unit fuses are fixed on the moveable part or arm of the switch, so during isolation fuses are also disconnected from the circuit.

Which is better MCB or fuse?

MCB is more sensitive to current than the fuse. It detects any abnormality in the current flow and automatically switches off the electrical circuit. In the case of MCB, the fault zone of the electrical circuit can be easily identified. ... MCB provides a better interface with the help of knob than a fuse.