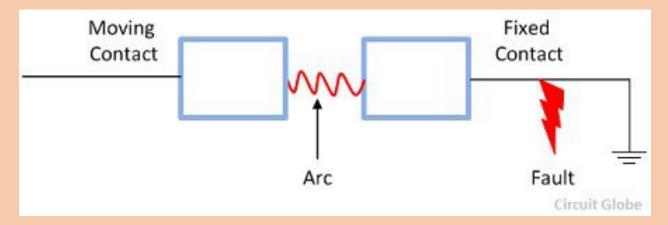
Circuit Breakers

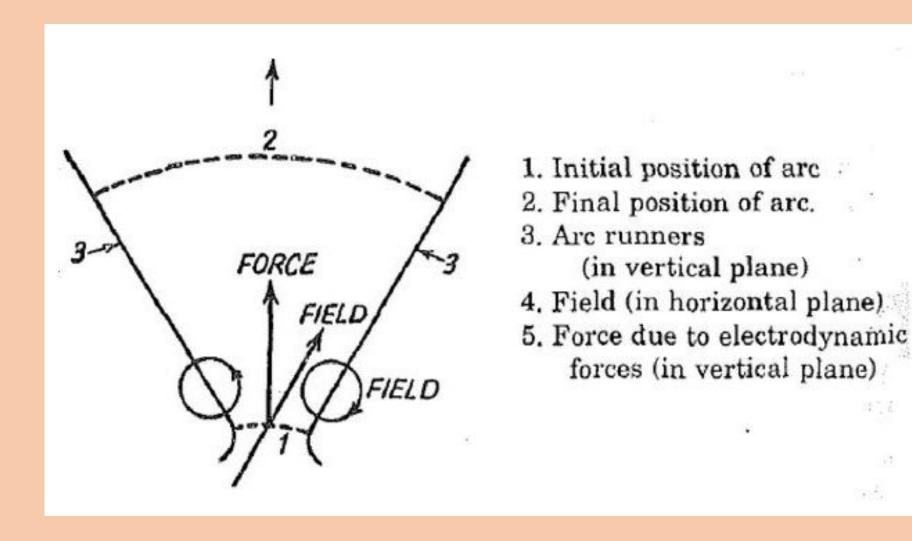
- •CBs are automatic switches which can interrupt fault currents.
- •The operation of automatic opening and closing the contacts is achieved by means of operating mechanism of CBs.
- •As the contacts of CB open, an arc is drawn between them.



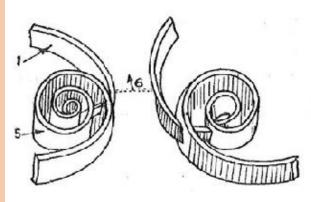
Techniques for Arc Interruption

- High Resistance Interruption
- Current Zero Interruption
- Artificial Current Zero Interruption

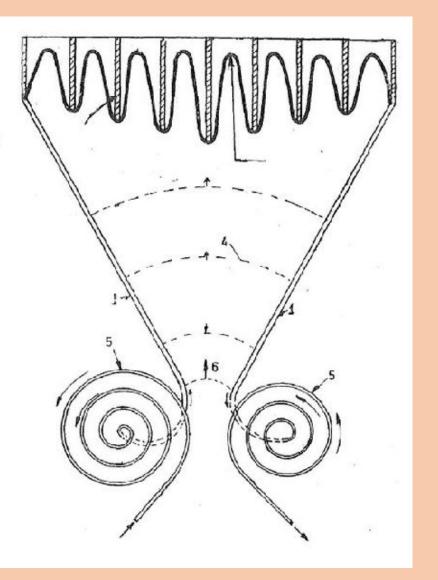
Arc Runners



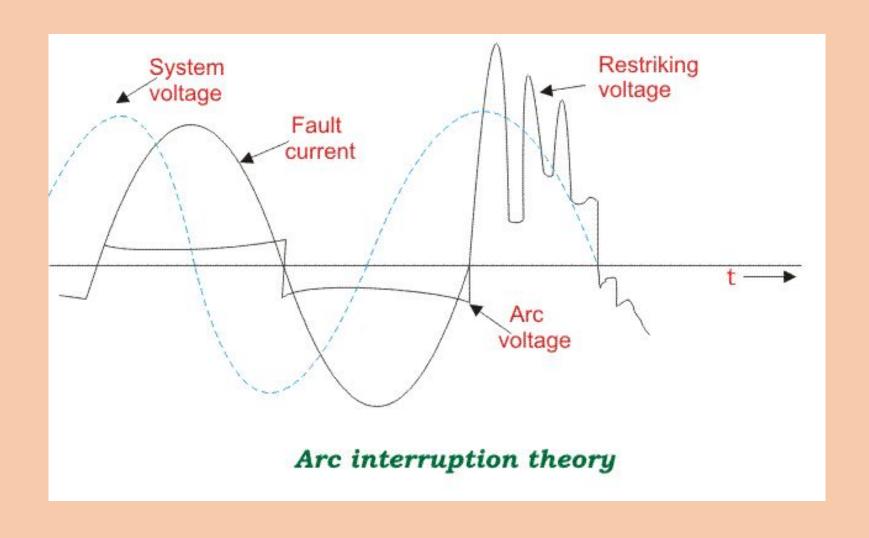
Blow Out Coil and Cooling of Arc



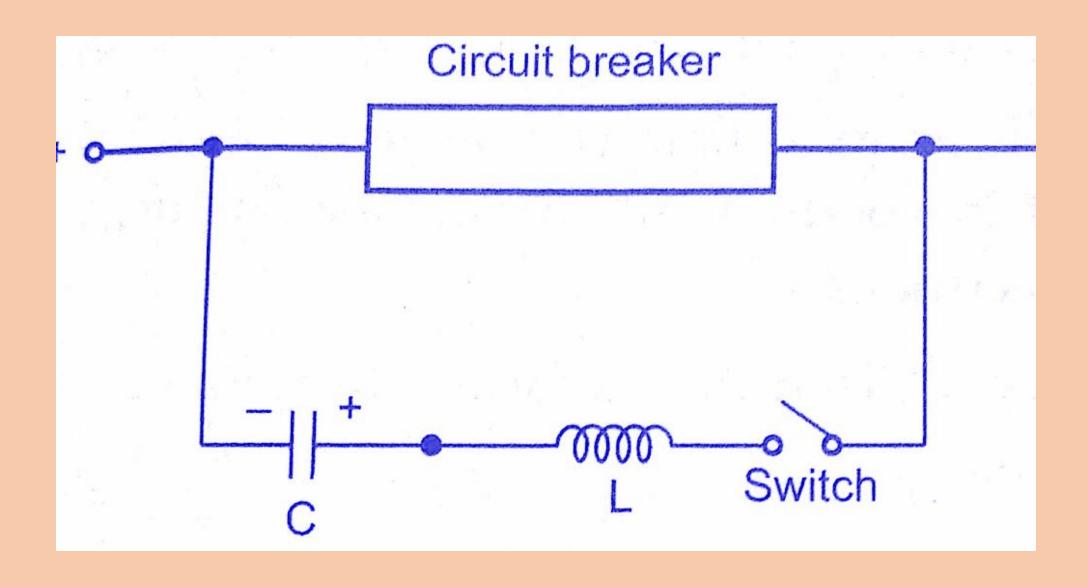
- 1. Arc runners (metallic)
- 2. Arc splitters
- 3. Elongated arc
- 4. Arc in process of travelling
- 5. Blow-out coils (metallic)
- 6. Origin of Arc



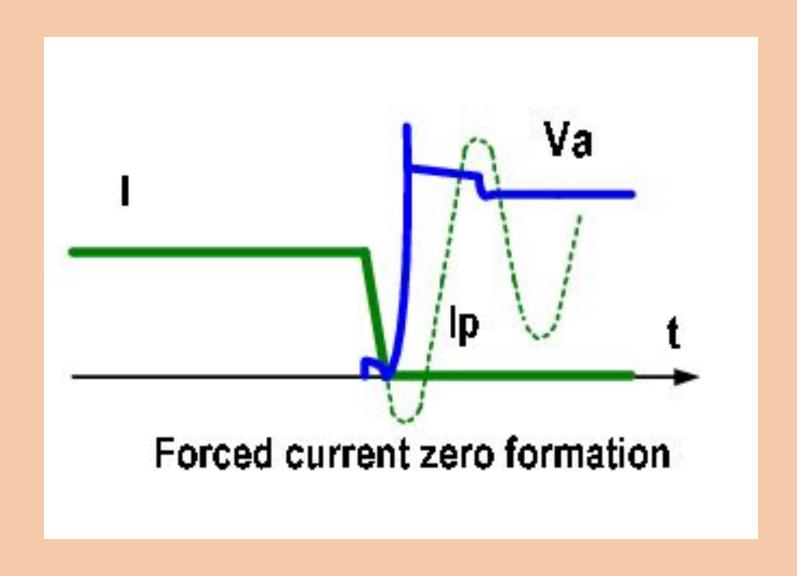
Current Zero Arc Interruption



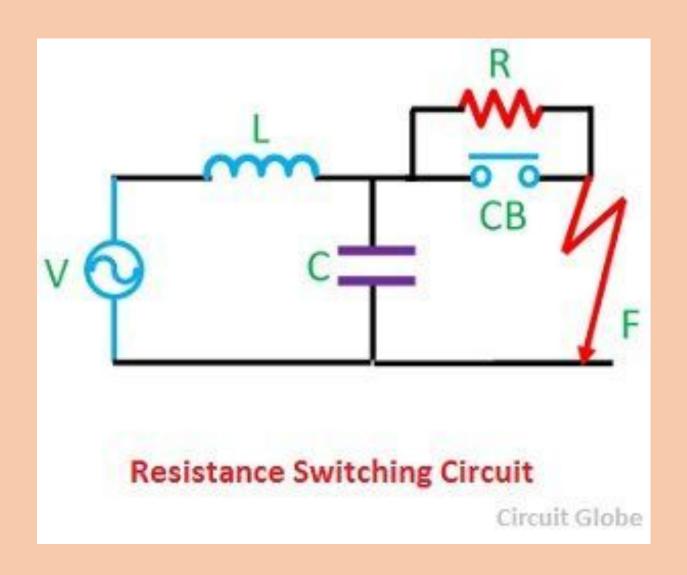
Arrangement for DC Arc Interruption



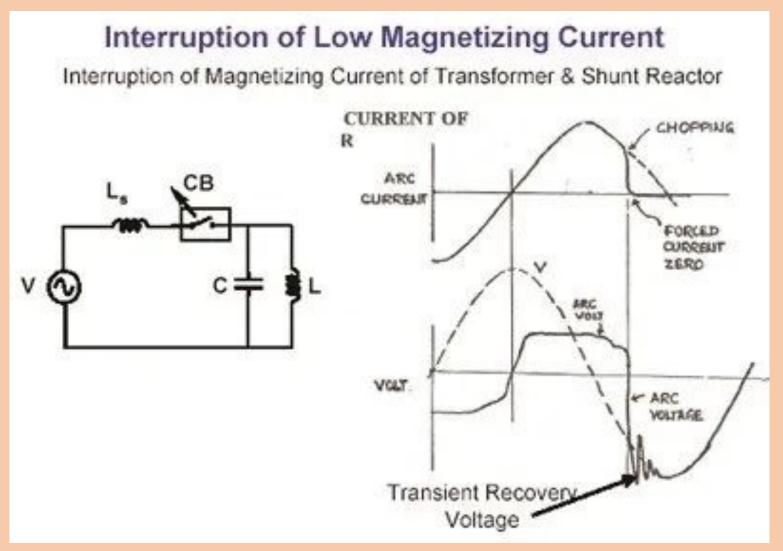
Artificial Current Zero



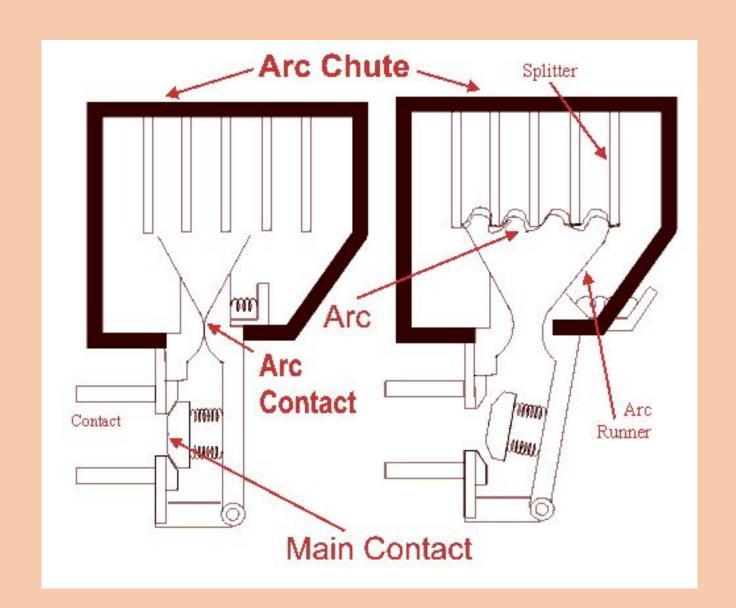
Resistance Switching Circuit



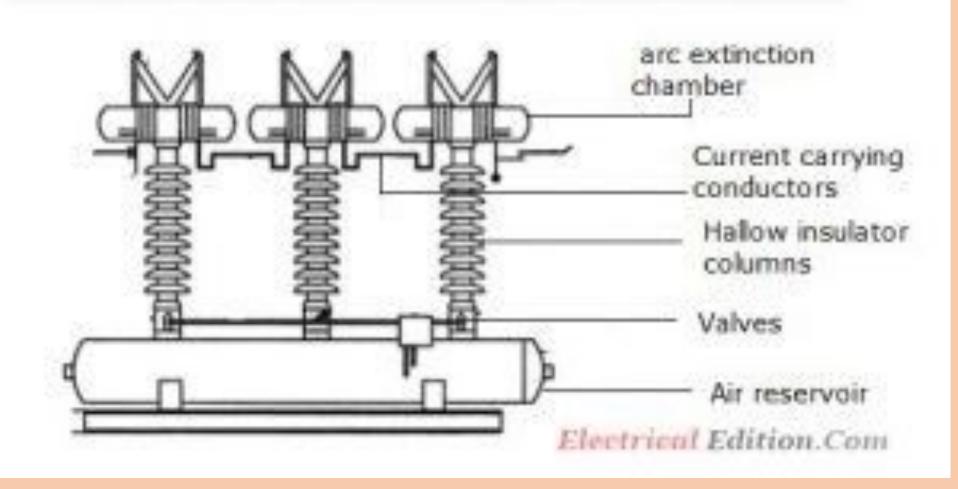
Interruption of Low Magnetizing Current (Current Chopping)



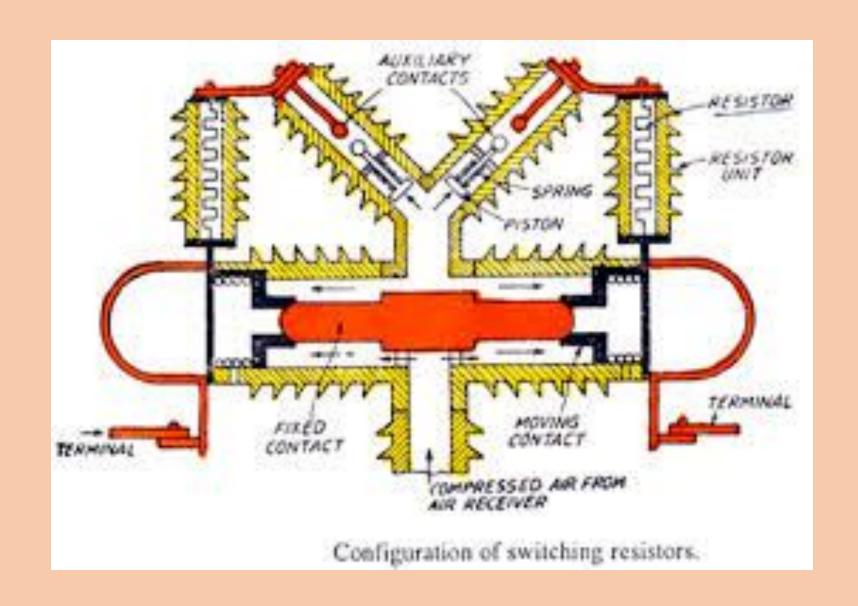
Air Break Circuit Breaker



Air Blast Circuit Breaker



Double Arc Extinction Chamber



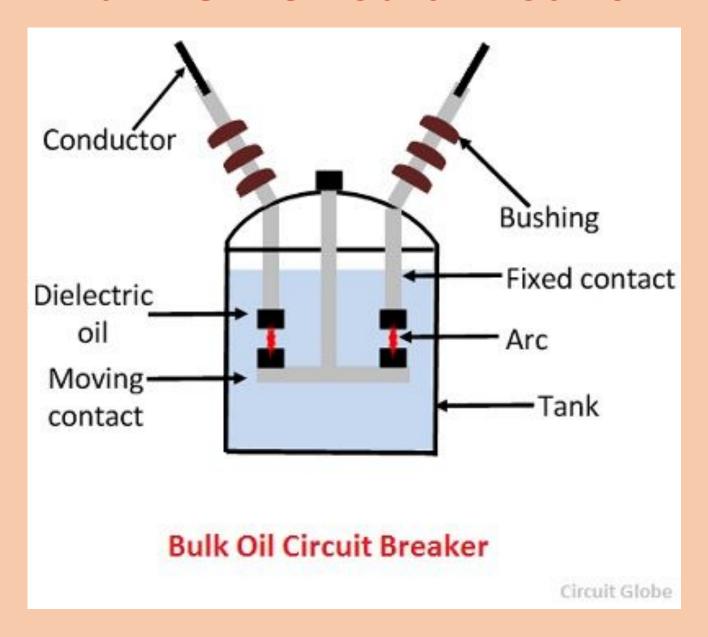
Video link

https://www.youtube.com/watch?v=SxVa1gpdfg8

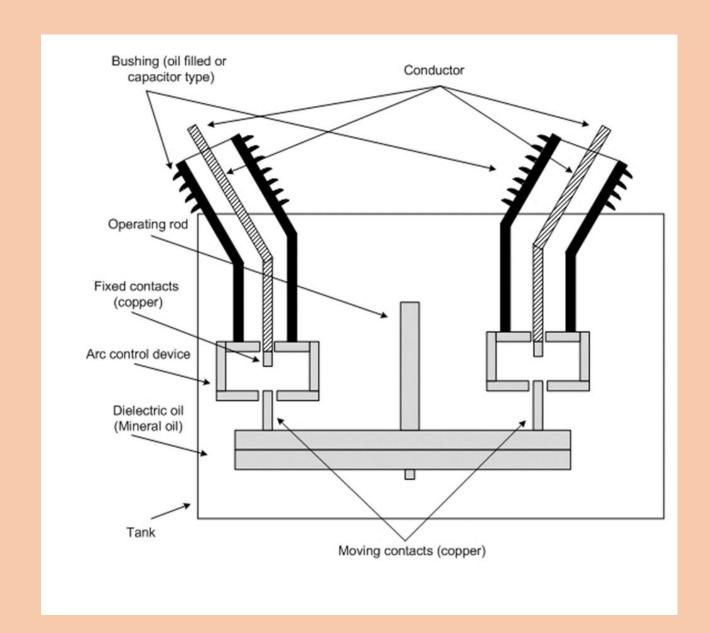
Oil Circuit Breakers

- 1. Bulk Oil Circuit Breaker
- 2. Minimum Oil Circuit Breaker

Bulk Oil Circuit Breaker



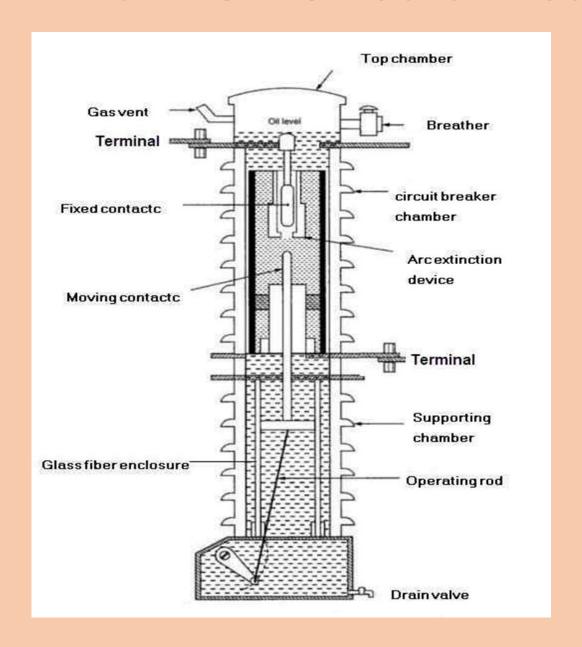
Bulk Oil Circuit Breaker with Arc Control Device



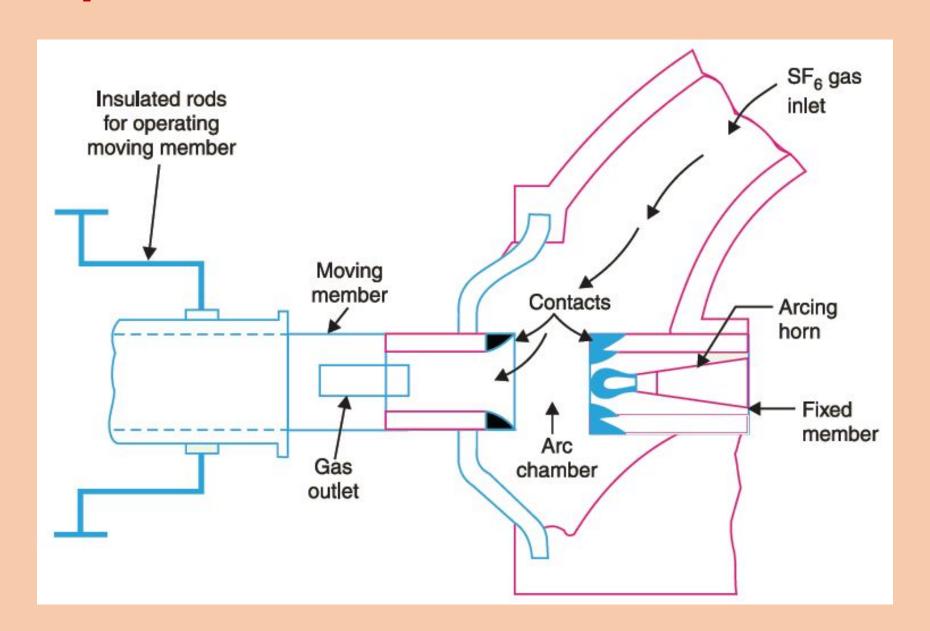
BOCB



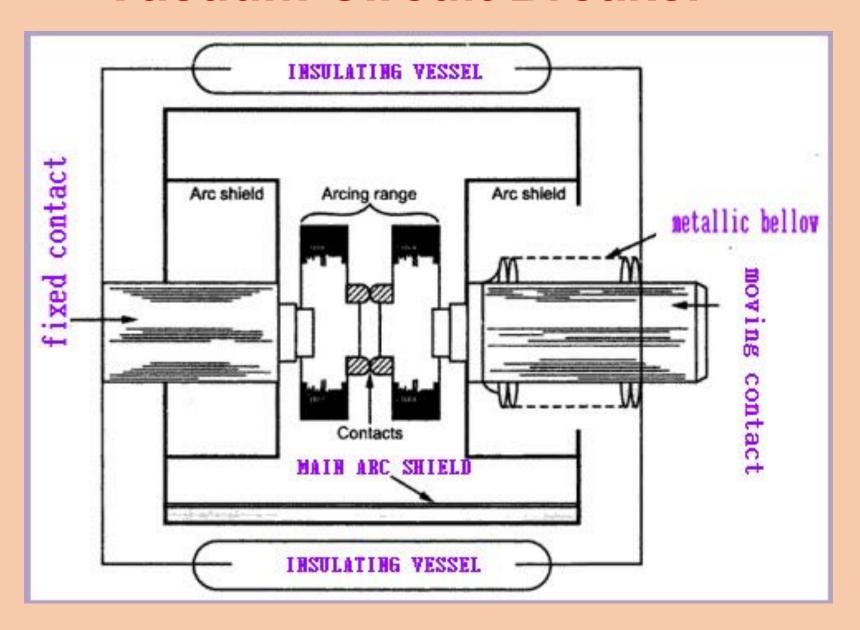
Minimum Oil Circuit Breaker



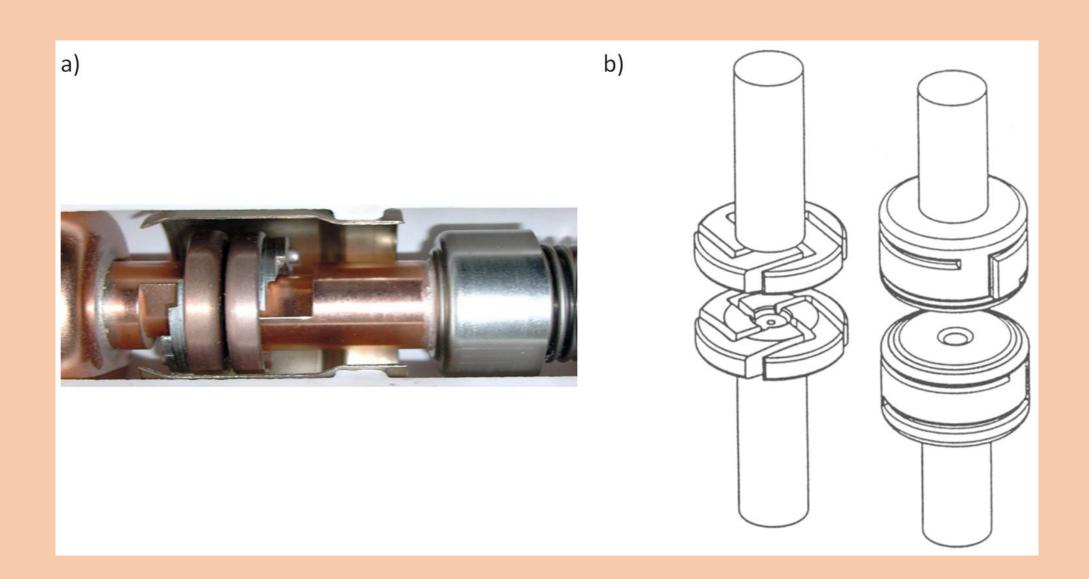
Sulphur Hexafluoride Circuit Breaker



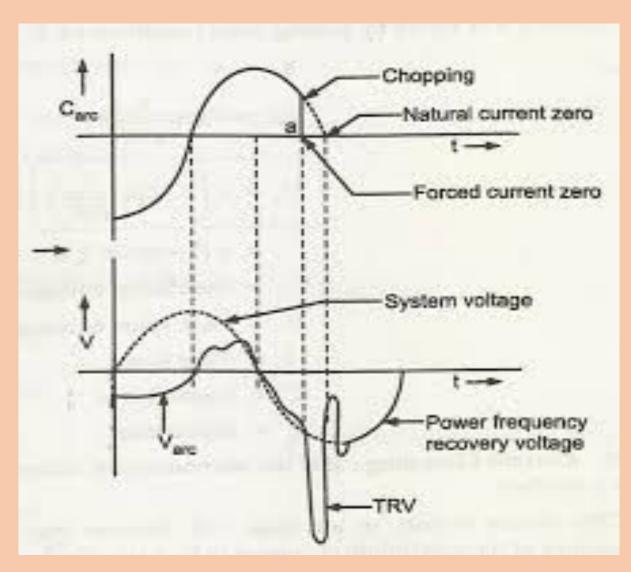
Vacuum Circuit Breaker



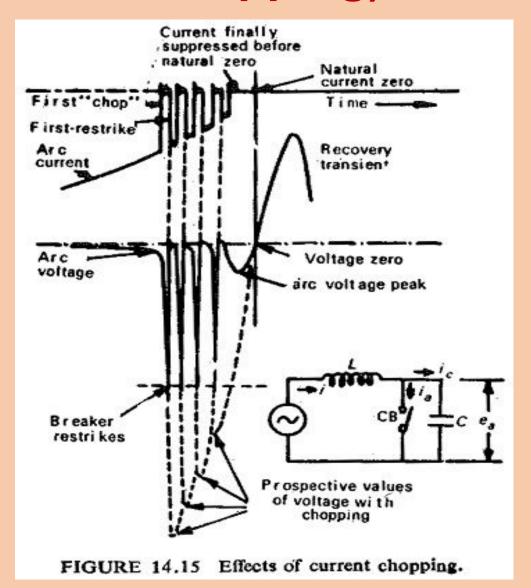
Contacts in Vacuum Circuit Breaker



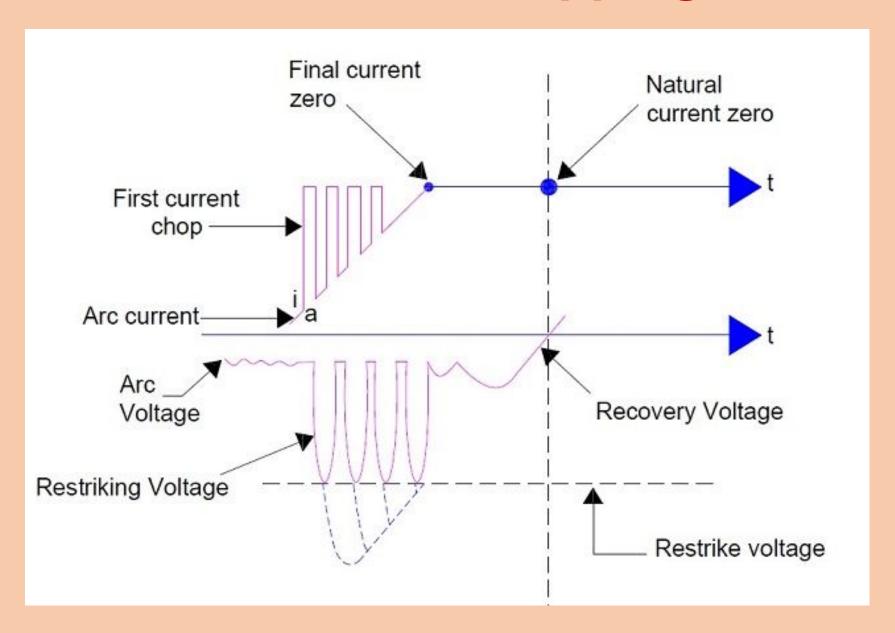
Interruption of Low Magnetizing Current (Current Chopping)



Interruption of Low Magnetizing Current (Current Chopping)



Current Chopping



Interruption of Capacitive Current

