

- a. Adjustable long time delay current setting between 50 – 200% with variable tripping time characteristics.
 - b. Adjustable short time delay current setting 200 – 800% with variable tripping time characteristics.
 - c. Instantaneous tripping for heavier over current applications adjustable from 400 – 1600% of the base current.
 - d. Adjustable earth fault trip current setting 20 – 80% with variable tripping time characteristics.
 - e. Earth fault tripping with current transformer with relay for setting with 30mA to 2A.
- D. The air circuit breaker shall provide three positions:-
- a. Service position – for opening and closing main and auxiliary contacts.
 - b. Test position – for opening main contacts but closing auxiliary contacts.
 - c. Isolated position – for opening all main and auxiliary contacts.
 - d. An indicator shall clearly show these positions and a mechanism to allow locking of the air circuit breaker in any position.
- E. All circuit breakers shall be provided with interlocks to ensure that:-
- a. Circuit breaker cannot be plugged in or isolated when it is closed
 - b. The circuit breaker cannot be closed until it is fully plugged in or completely isolated
 - c. The circuit breaker cannot be, closed in the service position without completing the auxiliary circuits between the fixed and moving positions
 - d. Only one incoming supply can be energized at any one time where more than one supply is available.
 - e. Mechanical interlocking shall be provided to prevent withdrawing or inserting of the circuit breaker when it is in ON position. Any attempt to do so shall automatically trip the circuit breaker.
- F. The withdraw able part of the circuit breaker shall be effectively connected to earth through scraping contacts that shall make before and break after the main and auxiliary contacts.