

- G. The moving contacts comprising of main and arcing contacts shall be of the spring loaded self-aligning type. These contacts shall be so arranged that arcing contacts make before and break after the main contacts.
- H. Individual shutters, which automatically operate as the truck, are racked in and out shall be provided for busbar and circuit spouts. When closed the shutters shall effectively prevent any contact with either the busbar or the circuit connections and also seal the spouts against the ingress of dust. The shutters are to be coloured and painted in bold characters with "BUSBARS (red) or "CIRCUIT" (yellow) as appropriate in Arabic and English. Provision shall be made to lock each shutter in the closed position
- I. A purpose designed, separate earthing device shall be provided to earth either the cable box or the busbar side of the circuit breaker. Single function earthing shall be arranged so that it shall only be possible to earth non-current carrying conductors.
- J. The air circuit breaker shall include but not limited to the following as minimum:-
- a. 8NO/8NC auxiliary contacts
  - b. Arc chutes
  - c. Folding extension rail
  - d. Charging handle
  - e. Open and close push buttons
  - f. Trip indicator
  - g. Spring charge motor
  - h. Spring charge indicator
  - i. Breaker position indicator mechanically and electrically.
  - j. Micro-processor based protection and management unit that provides the following control and monitoring features:
    1. Over current protection
    2. Short circuit protection
    3. Earth fault protection
    4. Neutral protection