



## 11KV INDOOR VCB TYPE RCS 12

### CONSTRUCTION DETAILS

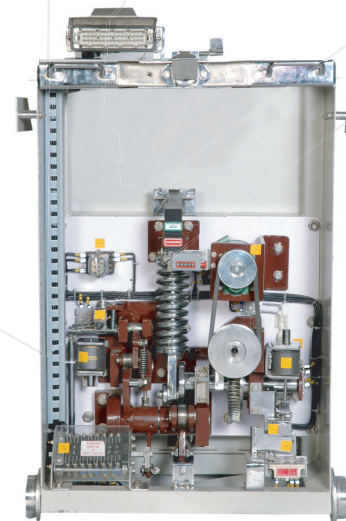
The VCB is mounted on a truck which is manufactured to precise dimensions to ensure interchangeability of the truck (moving part) with the panel (Fixed part). It is equipped with a common drive for the three interrupters, housed in epoxy resin cast housing. The breaker is operated by a motor wound spring charge mechanism. The motor drive apart from electrical close/trip mechanism is also provided with coils for remote operation and for operation with protective relays. It has two mechanically driven flags to show the status of breaker operation (i.e. ON/OFF) and the status of spring (i.e. charged/free). A 24 or 32 pin plug and socket mounted on the truck is wired to the components of the operating mechanism such that interlocking of plug prevents the breaker movement when it is not engaged into the socket. The interlocks are generally provided for the safe operation of the breaker. When it is not in use, the feeder end of the panel is grounded either by an earth switch built integrally into the panel or by a separate truck. Both feeder earthing arrangements are optional items and not included in scope of supply.

### TECHNICAL DETAILS

[Breaker type RCS12 is a 3 phase, metal clad, withdrawable type, indoor vacuum circuit breaker having 3 separate metal compartments for breaker, busbar, cable termination & CT. The breaker is fully type tested and conforms to IEC 62271-100/200. The breaker has both mechanical and electrical close/open facilities. The breaker is rated for a maximum current, voltage and breaking capacity of 1600A, 12kV and 26.3 kA respectively.

The important features of this breaker are:

- A Sturdy Compact, maintenance free mechanism suitable for 100000 (one hundred thousand) Operations.
- Compact Design (700mm wide)
- Reciprocating Bar operates all 3 phase drives.
- Independent support under all the 3 Interrupters eliminates Pole discrepancy
- Visible Snatch Gap to determine Contact erosion
- Silent Spring Charging Operation.
- Insulated Single/Double bus arrangement



**Drive Mechanism**

