

### Specification of Air Circuit Breaker (ACB)

The Air Circuit Breaker (ACB) shall be rated for 800 Amps, 3-Phase, 415 volts AC, 50 Hz. supply. The ACB shall be 3-Pole, type: CN-CS: 800C, Manually operated and Draw-out (MDO) type. The Breaking Capacity of the ACB, i.e.,  $I_{cu}=I_{cs}=I_{cw}$  shall be equal to 50 kA for 1 sec, Utilization Category of the ACB: B and shall be equipped with microprocessor based SR18G release with settable ranges for Short Circuit, Ground Fault and Thermal Overload. protections. The voltage rating of Shunt Release and tripping Coil shall be 110 V DC. The ACB shall also be equipped with pre-wired 6 NO + 6 NC auxiliary contacts. The ACB shall confirm to IS13947-2, IEC60947-2, BSEN60947-2.

The ACB shall be supplied along with complete accessories such as ACB cradle such that the ACB can be racked in or racked out of the cradle on the retractable rails with a racking mechanism actuated by a racking handle and the handle can be stored in the cradle. The racking mechanism shall enable for three distinct position in the cradle such as Service, Test and Isolated. The ACB shall have mechanical indicator to indicate these breaker positions. The ACB shall have the facility such that by racking the breaker to TEST position all the controls and accessories can be tested for their functioning without actually powering the breaker. Make of the ACB shall be L & T.

The above ACB shall be suitable for one to one replacement of our existing ACB of nameplate specification given below.

#### Nameplate Specification of our existing ACB

Model: CN-CS: 800C,	Sr. No.: AY248824,	Ue: 415 V ~ 50 / 60 Hz
$I_{cu}$ : 50 kA for 1 s,	$I_{cs}$ : 50 kA for 1 s,	$I_{cw}$ : 50 kA for 1 s,
Utilization Category: B,	Standard: IS: 13947-2, IEC60947-2,	Make: L & T

#### Note:

- 1) The ACB shall be supplied with 1(one) No. of spirally bound hard copies of each of user, maintenance and spare-parts manual containing wiring diagram.
- 2) Spring charging handle and other accessories etc. shall be supplied along with the ACB
- 3) Test and Guarantee Certificates shall be supplied along with the ACB.