

PART-III A

(SPECIFICATION OF VCB PANEL FOR 1000 KVA DISTRIBUTION TRANSFORMER)

11kv/630 Amp, 18.4KA indoor type Vacuum Circuit Breaker complete Single bus bar, floor mounting metal clad indoor extensible type flush fronted horizontal draw out, horizontal isolation type Vacuum Circuit Breaker suitable for installation in 11 kv 3 phase, 3 wire, 50Hz effectively earthed supply system having a fault level of 350MV A at 11 KV and equipped with:

Housing for circuit breaker carriage and Mechanical interlock with automatic safety shutter gear including padlocking arrangement.

Epoxy support insulators and self-aligning finger type isolating contacts. Truck having integral racking-in device for insertion and withdraw able of VCB complete with all necessary interlock and complete with sheet steel enclosure panel, bus bars, digital ammeter and voltmeter indicators, selector switches, operating switches, heating element, hooter etc. With dry type CT&PT units and IDMTL relay triple pole, non- instantaneous, non directional, having 2 elements for OIC Setting 50-200% and 1 element for Elf protection setting 20-80%, CDG-31 (EQV) along with 2 auxiliary relays and power pack unit for control circuit.

ON OFF, RYB, TNC, TCH indication lamps.

HAND charged independent

Spring closing /tripping, trip free operating mechanism with manual closing And tripping push buttons and mechanical breaker "closed / open", "spring Charged / discharged" indication.

Mechanical operation counter.

Electrical release coil AND shunt trip coil of 24V DC.

All items shall be as per manufacturer's standard practice.

TECHNICAL SPECIFICATION DISTRIBUTION
TRANSFORMER

TYPE	COPPER WOUND
DUTY	INDOOR / OUTDOOR
RATING	1000 KVA
NO LOAD VOLTAGE RATIO	11/. 433KV
NO. OF PHASE	3 PHASE
FREQUENCY CYCLE	50Hz
COOLING	ONAN
VECTOR GROUP	DYN11 (IS 2026)
TAPPING ON HV FOR	+5% TO -10% IN STEPS OF 1.25%
HV COMPONSA TION	OFF LOAD
TEMPRA TURE RISE (OIL / WINDING)	50 /55c
HV CONNECTION	DELTA
L V CONNECTION	STAR
HV TERMINA TION	CABLE BOX
LV TERMINATION	BUS DUCT
NO Load Losses	1.25KW
LOAD Losses	8 KW
INPIDENCE	5%

WITH ALL FITTING AND ASSESORIES PROVIDED

- 1 .Oil conservator with filling hole and cap.
- 2.Air release plug
- 3.Birectional plain rollers
- 4.Silica gel breather
- 5.First filling oil.
- 6.Drain cum filter valve
- 7.Rating and diagram plate
8. Two earthling terminals
- 9.Lifting arrangement
- 10.Explosion vent
11. Thermometer pocket
- 12.Magnetic oil level gauge with minimum level marking.
13. Oil temperature indicator with alarm and trip indicator.
- 14.Double float buchholz relay and conservator.
15. Shut off valve between buchholz relay and conservator.
- 16.Winding temperature indicator with alarm and trip contact.
- 17.Marshalling box.