

HT VCB PANEL DATASHEET**ForumElectrical.Com**

S. No	Equipment Name	HT VCB PANEL
1	Configuration	1 No Incoming, 3 Nos. Outgoing.
2	Nominal Voltage	11000 Volt
3	Highest System Voltage	12000 Volt
4	Normal current Rating	630 A for 3 Secs.
5	Location	Indoor
6	Service	Continious
7	Phase	Three Phase
8	Cable Termination	Indoor Termination Kit
9	Material of the Busbar	Electrolytic Grade Copper
10	Short time Rating – 1 Sec. / 3 Sec	3 Secs.

11	Normal supply Frequency.	50 Hz
12	Type – Cubicle/ Kiosk/ Open	Cubicle
13	Operation Counter.	Yes
14	Current Transformer	As per SLD (Single Line Diagram)
15	Current Transformer – V.A. Burden	As per SLD (Single Line Diagram)
16	Potential Transformer – Ratio	As per SLD (Single Line Diagram)
17	Potential Transformer – V.A. Burden	As per SLD (Single Line Diagram)
18	Breaker Control Switch (TNC)	Yes
19	A.C. Control Switch	Yes
20	Annunciator	Yes (8 windows for Ingoing and 12 windows for Outgoing)
21	Protective relays	As per SLD (Single Line Diagram)
22	For breaker	

23	i) IDMT Phase over current Relay	51
24	ii) Earth Fault Relay	51N
25	iii) Time Delay Relay	2
26	iv) Under Voltage Relay	27
27	v) Over Voltage Relay	59
28	vi) Inst. Phase over current Relay	50
29	vii) Inst. Earth Fault Relay	50N
30	viii) Hand reset type lockout Relay	86
31	ix) Auxiliary Relay	30
32	x) Transformer Thermal Relay	49
33	xi) Restricted Earth Fault Relay	64R
34	xii) Pressure Switch	63

35	Auxiliary Relay for Auto Trip for Antipumping	Yes
36	Cubical Space heater with a Switch + Thermostat	Yes
37	Cable termination (Aluminium/ Copper cable) cable end box/ sealing kit	Aluminum
38	Withdrawal of Breaker	Drawout Type
39	Incoming/outgoing cable entry/exit	From Bottom
40	Symmetrical Breaking Current	26.3 KA for 3 Secs.
41	The following drawings shall be submitted for approval after the order is placed.	a) Dimensional Drawings. b) Sectional Drawings. c) Foundation Details. d) Power and control Wiring Circuits.
42	Commissioning Spares	Quoted rates are deemed to include supply of Commissioning Spares for the panel.
43	Earthing switch	For All outgoing feeder
44	Door Earthing	2.5 sqmm Copper flexibles
45	Paint shade	RAL 7035 / 631
46	VCB Mounting	Truck mounted/ Cassette mounted

47	Temperature rise	35 deg. C above Ambient of 50 deg. C for bare Copper
48	Control Voltage	110 V DC and 110 V AC
49	Communication	
50	Energy Meters	Modbus RS-485 (RTU)
51	Main Protective Relay	Modbus RS-485 (RTU)
52	Earthing Truck for Main Bus Earthing	Yes, Compatible in BUS PT Chamber
53	BUS PT	Drawout Type
54	Emergency Push Button Station	02 Nos. (01 no. indoor type and 01 no. outdoor type flame proof)
55	Main Busbar	50 x 12 mm Copper
56	Earth Busbar	200A/mm ² for 1 sec. or 125 A/mm ² for 3 sec.
57	Joints and Isolating contacts	Tinned/Silver
58	Circuit breaker Mechanical Endurance Class	M2 Class

59	Circuit breaker Electrical Class	E2 Class
60	Circuit breaker class for Capacitive breakering current	C2 Class
61	Client Supply	110 V DC and 230 V AC