

**POWER TRANSFORMER DATA SHEET-1**

## POWER TRANSFORMER DATA SHEET

Date:	Document No:	Rev:	Class:	Sheet
<b>1 GENERAL</b>				
2	Equipment Number:	<b>ET-01</b>		
3	P.O. Number:	<b>TBA</b>		
4	Specification Requirements:	<b>SP-00-E-0011</b>		
5	Vendor:			
6	Manufacturer:			
7	Model Number:			
8	Serial Number:			
9				
<b>10 ENVIRONMENTAL DATA</b>				
11	Maximum Temperature:	<b>53 °C</b>	Area Classification:	<input type="checkbox"/> Hazardous <input checked="" type="checkbox"/> Non-Hazardous
12	Minimum Temperature:	<b>06 °C</b>	Zone:	<input type="checkbox"/> 1 <input type="checkbox"/> 2
13	Design Temperature (Min/Max):	<b>06/ 53 °C</b>	Group:	<input type="checkbox"/> IIA <input type="checkbox"/> IIB <input type="checkbox"/> IIC
14	Maximum Humidity:	<b>57.5 %</b>	Temperature Class:	
15	Design Humidity:	<b>58 %</b>		
16	Altitude Above Sea Level:	less than 1000 m	Maximum Sound Pressure Level at 1m:	85 dBA
17	Transformer Location:	<input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor		
18	Ingress Protection of Enclosure:	IP 55		
<b>19 ELECTRICAL CHARACTERISTICS</b>				
20	Continuous Rated Output:	<b>2000 KVA</b>		
21	Primary Voltage:	<b>11 kV</b>	Tap Changer:	<input checked="" type="checkbox"/> On Load <input checked="" type="checkbox"/> Off Circuit
22	Secondary Voltage:	<b>0.415 kV</b>	Tapping Range :	+/- 5% Tapping Step : 2.5%
24	Frequency:	<b>50 Hz</b>	Insulation Class:	Class A Temperature Rise : Class A
25	Number of Phases:	<b>3 Phase</b>	Cooling Method	<b>ONAN</b>
26	Vector Group:	<b>Dyn 11</b>	Conservator:	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required
27	System Earthing:	Directly Earthed		
28	Rated BIL:	<b>75 kV</b>		
<b>29 CONTROL, ALARMS AND ACCESSORIES</b>				
30	Oil Temperature Indication:	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required		
31	Winding Temperature Indication:	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required		
32	Oil Level Indication	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required		
33	Pressure Relief Vent	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required		
34	Lower Oil Sample Valve	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required		
35	Upper Fill/Filter Valve	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required		
36	Integrated Protection Relay	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required		
37	Buchholz Relay	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required		
<b>38 TRANSFORMER ARRANGEMENT</b>				
39	Transformer Tank Type:	<input type="checkbox"/> Sealed <input checked="" type="checkbox"/> Conservator <input type="checkbox"/> Dry Type		
40	Mounting Arrangement:	<input checked="" type="checkbox"/> Pad Mount <input type="checkbox"/> Pole Mount <input type="checkbox"/> Other		
41				
<b>42 CABLE DETAILS</b>				
43	Primary Winding Cable Details:	<b>TBA</b> mm <sup>2</sup>	<b>XLPE/SWA/PVC</b>	mm OD
44	Secondary Winding Cable Details:	<b>TBA</b> mm <sup>2</sup>	<b>XLPE/SWA/PVC</b>	mm OD
45				
<b>46 OTHER-</b>				
47	Tropicalisation:	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required		
48	Protective Coating:	<input checked="" type="checkbox"/> Standard Other		
49	Neutral CT:	<input checked="" type="checkbox"/> Required Not Required		
50	Primary Side CT:	<input checked="" type="checkbox"/> Required Not Required		

**POWER TRANSFORMER DATA SHEET-2**

## POWER TRANSFORMER DATA SHEET

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3	P.O. Number:	TBA								
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6	Manufacturer:									
7	Model Number:									
8	Serial Number:									
9										
<b>10 ELECTRICAL CHARACTERISTICS</b>										
11	Continuous Rated Output:	kVA	Efficiency at 75°C:			50% load	75% load	100% load		
12						%	%	%		
13	No-load Loss (rated voltage, frequency):	kW								
14	Load Loss (rated current, voltage, frequency at 75°C):	kW	Regulation at Rated Power at 75°C:			0.8 PF	1.0 PF			
15	Impedance voltage (rated current, frequency at 75°C):	%				%	%			
16	Reactance voltage (rated current, frequency at 75°C):	%								
17		Winding Material (HV/LV):								
18	Primary Magnetizing Current at Rated Voltage and Frequency:	A	Transformer Oil (type, grade):							
19	Maximum Winding Temperature at Rated Load:	°C								
20		Forced Cooling Pump/Fan Requirements:								
21		Voltage: V								
22		Voltage Source:								
23			Quantity	Make	Model	Power	Pressure			
24		Pumps								
25		Fans								
26										
<b>27 MEASUREMENT</b>					<b>ACCESSORIES</b>					
8		Make	Model	Range		Quantity	Make	Model	Range	
29	Oil Level Gauge:				Gas Pressure Relief Outlet:					
30	Oil Temperature Indicator:				Buchholz Relay:					
31	Winding Temperature:				Integrated Protection Relay					
32					Upper Fill/Filter Valve:					
<b>33 TEMPERATURE RELAY SETTINGS</b>										
34	Temperature High (Alarm):	°C			Lower Oil Sample Cock:					
35	Temperature High High (Trip):	°C			Neutral to Earth CT:					
36					Bushings:					
37					Surge Divertors:					
38					On-load Tap Changer:					
39					Off-circuit Tap Changer:					
40	<b>TRANSFORMER ARRANGEMENT</b>									
41						Height, mm	Width, mm	Depth, mm		
42	Transformer Tank Thickness:	Sides:	mm	Overall Dimensions:						
43		Bottom:	mm	Transformer Dimensions Arranged for Transport:						
44										
45	Radiator Plate or Cooling Tube Thickness:	mm								
46										
47	Total Mass of Transformer Including All Fittings and Oil:	kg			Oil Required:	Litres				
48	Total Mass of Transformer Arranged for Transport:	kg			Oil Shipped Loose:	Litres				