



TRANSFORMER TEST REPORT

TEST LABORATORY

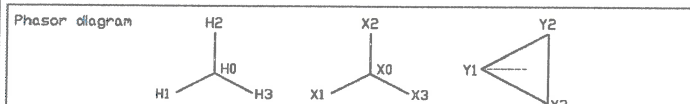
Serial No : 2XTR 190901

Date : 18.03.2020

Page No : 8 of 62

Name Plate

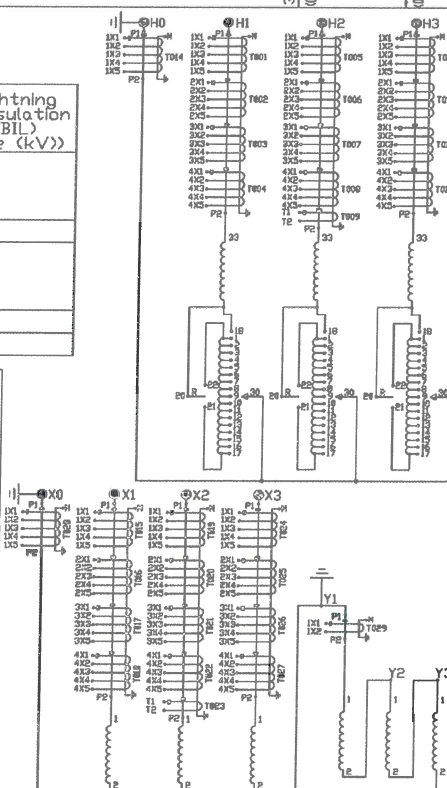
Three-Phase Step-Up OLTC Transformer, 60 Hz Standard : IEEE C57.12.00 Serial No/Transformer Tag No :						
Terminals	Temperature rise	Class of cooling	Rating (MVA)	Current (A)	Voltage (kV)	Basic lightning impulse insulation level (BIL) (Full-wave (kV))
H1-H2-H3	65°C	ONAN	72.0	301-361	138-115	650
		ONAF	96.0	402-482		
		ONAF	120.0	502-602		
H0	-	-	-	-	-	110
X1-X2-X3	65°C	ONAN	72.0	1205	34.5	200
		ONAF	96.0	1605		
		ONAF	120.0	2010		
X0	-	-	-	-	-	95
Y1	-	-	-	-	13.8	110



Connection Y Y Δ Vector Group YNyn0+d1

TRANSFORMER					TAP CHANGER	
TERMINAL	CONNECTION	VOLTAGE (V)	CURRENT AT 72 MVA (A)	CURRENT AT 96 MVA (A)	CURRENT AT 120 MVA (A)	
H1,H2,H3,H0	GRD.WYE	103000	404	538	673	L16
		104700	397	529	662	L15
		106225	391	522	652	L14
		107725	386	515	643	L13
		109250	380	507	634	L12
		110750	375	500	626	L11
		112250	370	494	617	L10
		113775	365	487	609	L9
		115000	361	482	602	L8
		116775	356	475	593	L7
		118300	351	469	586	L6
		119800	347	463	578	L5
		121325	343	457	571	L4
		122825	338	451	564	L3
		124325	334	446	557	L2
		125850	330	440	551	L1
		127350	326	435	544	NA
		127350	326	435	544	NB
		127350	326	435	544	NC
		129850	323	430	538	R1
		130375	319	425	531	R2
		131875	315	420	525	R3
		133400	312	415	519	R4
		134900	308	411	514	R5
		136400	305	406	508	R6
		138000	301	402	502	R7
		139425	298	398	497	R8
		140925	295	393	492	R9
		142450	292	389	486	R10
		143950	289	385	481	R11
		145475	286	381	476	R12
		146975	283	377	471	R13
		148475	280	373	467	R14
		150000	277	370	462	R15
		151500	274	366	457	R16
X1,X2,X3,X0	GRD.WYE	34500	1205	1605	2010	
Y1	BURIED	13800	-	-	-	

Altitude	5500	Ft	Volume
Masses		lb	Insulating liquid (mineral oil PCB free)
Cone & coils	134923	lb	-Total/main tank
Tank & fittings	46145	lb	-Conservator
Radiators (with/without oil)	35954/27701	lb	-Radiators/OLTC
Ins. liq. mineral oil PCB free		lb	Winding material
-Total/main tank/conservator	73822/57491/3406	lb	Installation & operating inst.
-Radiators/OLTC	8253/405	lb	Connection diagram
Total weight	292390	lb	Manufacturer's order ref. no
Untanking weight (heaviest piece)	134923	lb	Impedances (%) based on 72MVA
Shipping weight (without oil)	171543	lb	-103.00/34.50 kV
OLTC (manuf./type)	ABB/VUCCRN 380/700/III	lb	-139.00-115.00/34.50 kV
Ins. liq. (manuf./type)	NYNAS/NYTRD Orion II	lb	-151.50/34.50 kV
The transf. is designed to operate at essentially atmospheric pressure over the normal range of oil temps.			
The transf. is designed to withstand complete vacuum & an internal pressure of 14 psi			
The delta conn. TV-winding is provided for the circulation of 3rd harmonic currents & stab. of the neutral, this conn. must never be changed			



CURRENT TRANSFORMERS			
LOCATION	CT NO	TERMINALS	PURPOSE
H1	T001	1X1-1X5	Relay
	T002	2X1-2X5	Relay
	T003	3X1-3X5	Relay
	T004	4X1-4X5	Metering
H2	T005	1X1-1X5	Relay
	T006	2X1-2X5	Relay
	T007	3X1-3X5	Relay
	T008	4X1-4X5	Metering
H3	T009	1X1-1X5	Relay
	T010	2X1-2X5	Relay
	T011	3X1-3X5	Relay
	T012	4X1-4X5	Metering
X0	T013	1X1-1X5	Relay
	T014	2X1-2X5	Relay
	T015	3X1-3X5	Relay
	T016	4X1-4X5	Metering
X1	T017	1X1-1X5	Relay
	T018	2X1-2X5	Relay
	T019	3X1-3X5	Relay
	T020	4X1-4X5	Metering
X2	T021	1X1-1X5	Relay
	T022	2X1-2X5	Relay
	T023	3X1-3X5	Relay
	T024	4X1-4X5	Metering
X3	T025	1X1-1X5	Relay
	T026	2X1-2X5	Relay
	T027	3X1-3X5	Relay
	T028	4X1-4X5	Metering
X0	T029	1X1-1X5	Relay
X1	T030	1X1-1X5	Relay
X2	T031	1X1-1X5	Relay
X3	T032	1X1-1X5	Relay

CT ratings, SR type	CT ratings, SR type	CT ratings, SR type
Current (secondary ratings)(A)	Current (secondary ratings)(A)	Current (secondary ratings)(A)
1000	1000	1000
500	500	500
250	250	250
125	125	125
62.5	62.5	62.5
31.25	31.25	31.25
15.625	15.625	15.625
7.8125	7.8125	7.8125
3.90625	3.90625	3.90625
1.953125	1.953125	1.953125
0.9765625	0.9765625	0.9765625
0.48828125	0.48828125	0.48828125
0.244140625	0.244140625	0.244140625
0.1220703125	0.1220703125	0.1220703125
0.06103515625	0.06103515625	0.06103515625
0.030517578125	0.030517578125	0.030517578125
0.0152587890625	0.0152587890625	0.0152587890625
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0.000476837158203125	0.000476837158203125	0.000476837158203125
0.0002384185791015625	0.0002384185791015625	0.0002384185791015625
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