

# SIEMENS

## SUBSTATION TRANSFORMER

84/112/140 MVA, 65°C RISE, 60 Hz.  
 CLASS ONAN/ONAF/ONAF, 3 PHASE.  
 HV 230000 Grd Y/132790.5 VOLTS.  
 LV 34500 Grd Y/19918.5 VOLTS.  
 TV 13800 DELTA BURIED VOLTS.

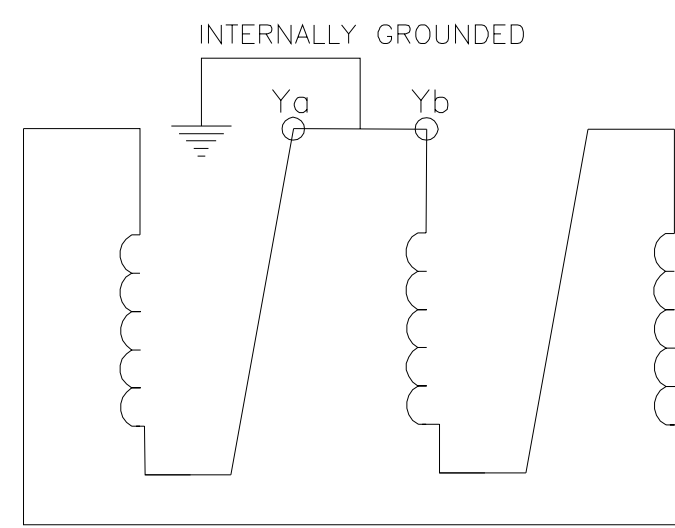
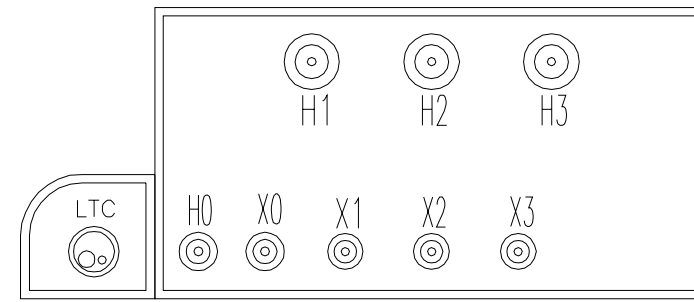
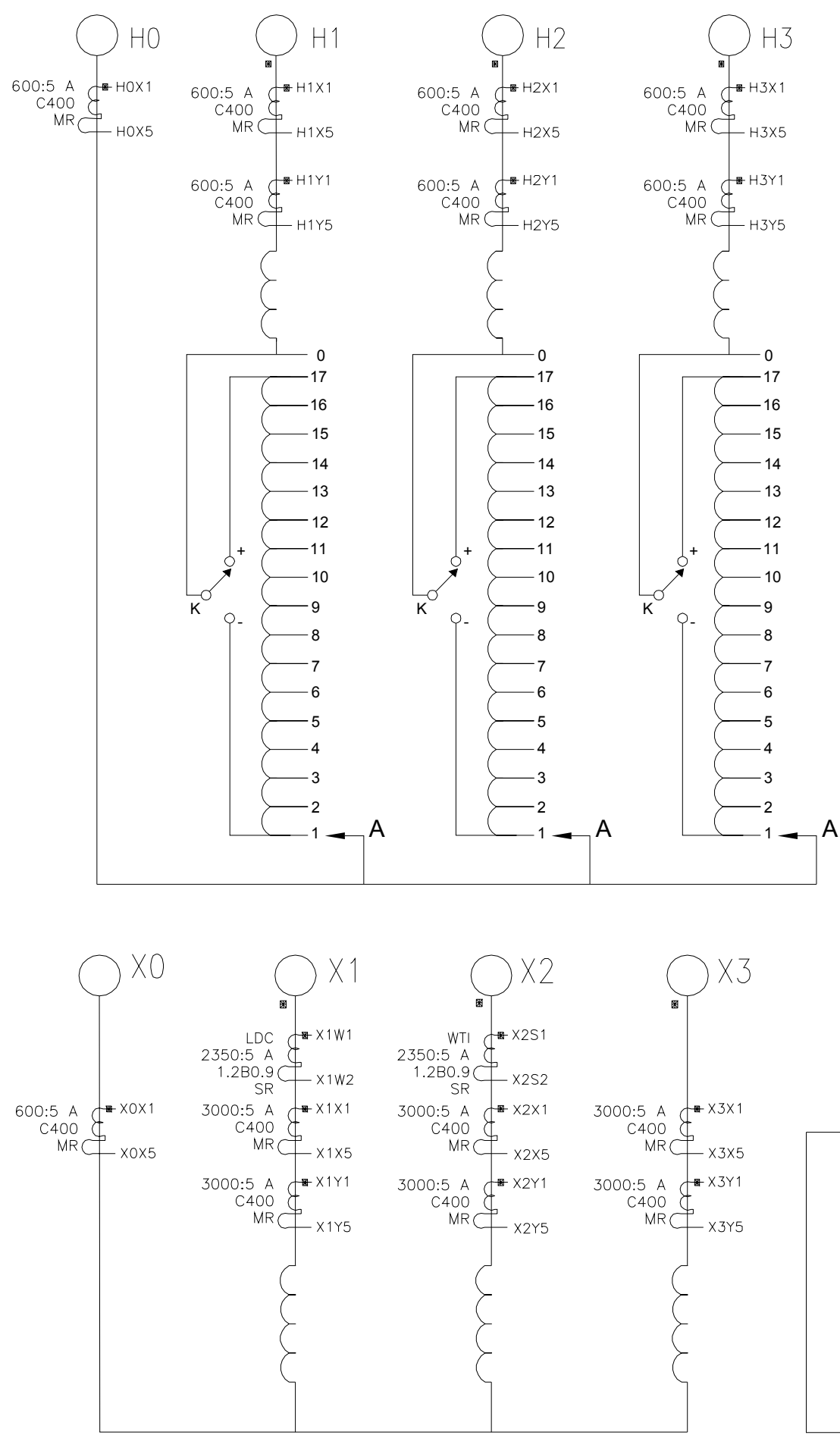
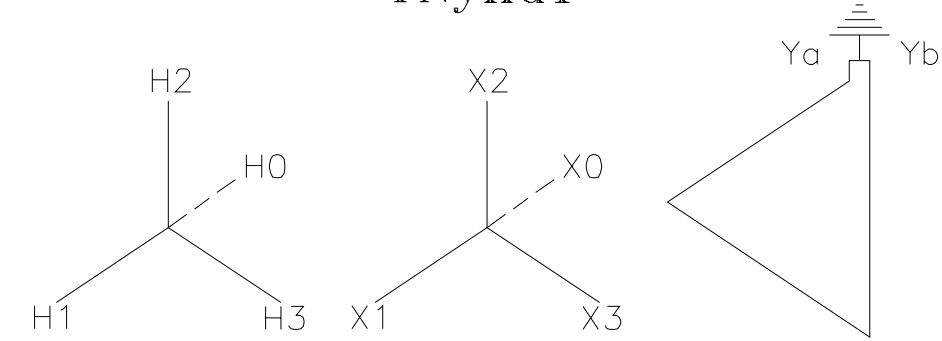
### FULL WAVE IMPULSE LEVELS

HV WINDING 900 kV, HV BUSHINGS 1050 kV.  
 HV NEUTRAL 150 kV, HV NEUTRAL BUSHING 250 kV.  
 LV WINDING 200 kV, LV BUSHINGS 250 kV.  
 LV NEUTRAL 150 kV, LV NEUTRAL BUSHING 250 kV.

THE LOADING CAPACITY OF THIS TRANSFORMER IS RATED FOR SITE ALTITUDES NOT EXCEEDING 3300 FASL.

H-X  IMPEDANCE BASED ON 84 MVA AT POS. N ON LTC.

### PHASE RELATION YNynd1



POS.	CURRENT TRANSFORMERS		CLASS
	RATIO	CONNECTION	
HV H0 X0	50:5 A	X2-X3	C400
	100:5 A	X1-X2	
	150:5 A	X1-X3	
	200:5 A	X4-X5	
	250:5 A	X3-X4	
	300:5 A	X2-X4	
	400:5 A	X1-X4	
	450:5 A	X3-X5	
LV	500:5 A	X2-X5	C400
	600:5 A	X1-X5	
	300:5 A	X3-X4	
	500:5 A	X4-X5	
	800:5 A	X3-X5	
	1000:5 A	X1-X2	
	1200:5 A	X2-X3	
	1500:5 A	X2-X4	
2000:5 A	X2-X5	C400	
2200:5 A	X1-X3		
2500:5 A	X1-X4		
3000:5 A	X1-X5		
LDC			
X1	2350:5 A	W1-W2	1.2B0.9
WTI			
X2	2350:5 A	S1-S2	1.2B0.9

THERMAL RATING FACTOR=2.0

ESTIMATED MASS IN		lb
CORE AND WINDINGS (MAIN TANK)		164899
TANK AND FITTINGS		45597
REMOVABLE RADIATORS		21782
CONSERVATOR TANK		2899
CONSERVATOR OLTC		195
LOAD TAP CHANGER AND MOTOR DRIVE		1058
LIQUID (TRANSFORMER)	9015 USG	64699
LIQUID (RADIATORS TOTAL)	404 USG	2903
LIQUID (CONSERVATOR TANK)	748 USG	5368
LIQUID (LOAD TAP CHANGER)	40 USG	284
TOTAL LIQUID	10207 USG	
TOTAL MASS WITH OIL		309684
TOTAL MASS WITHOUT OIL		236430
SHIPPING WEIGHT		200969

### NOTES:

1. READ INSTRUCTION BOOK BEFORE INSTALLING AND ENERGIZING THE TRANSFORMER.
2. DO NOT OPERATE THE TRANSFORMER WHEN THE LIQUID LEVEL GAUGE IS BELOW THE LOW POINT ON THE SCALE.
3. MAIN TANK, RADIATORS AND CONSERVATOR TANK DESIGNED FOR POSITIVE 14.7 PSI AND FULL VACUUM FILLING.
4. CONTAINS NO DETECTABLE LEVEL OF PCB (LESS THAN 2 PPM) AT THE TIME OF MANUFACTURE.
5. ALL CONDUCTOR MATERIALS ARE COPPER.
6. UNIT CONTAINS INHIBITED TYPE II OIL.

INSTRUCTION BOOK (SIEMENS) T.040N.001374.01

SERIAL No. T.040N.001374.01

PURCHASE ORDER No. 4500134587

MONTH/YEAR BUILT

VMIII500Y-72.5/B-18353W						
HV VOLTAGES AND CURRENTS						
TAP POSITION	REVERSING SWITCH	TAP CONTACT	HV VOLTS	AMPERES AT		
				84 MVA	112 MVA	140 MVA
16R	K+	A - 1	253000	192	256	319
15R		A - 2	251563	193	257	321
14R		A - 3	250125	194	259	323
13R		A - 4	248688	195	260	325
12R		A - 5	247250	196	262	327
11R		A - 6	245813	197	263	329
10R		A - 7	244375	198	265	331
9R		A - 8	242938	200	266	333
8R		A - 9	241500	201	268	335
7R		A - 10	240063	202	269	337
6R		A - 11	238625	203	271	339
5R		A - 12	237188	204	273	341
4R		A - 13	235750	206	274	343
3R		A - 14	234313	207	276	345
2R		A - 15	232875	208	278	347
1R		A - 16	231438	210	279	349
NR	A - 17					
N	A - K		230000	211	281	351
NL	A - 1					
1L	K-	A - 2	228563	212	283	354
2L		A - 3	227125	214	285	356
3L		A - 4	225688	215	287	358
4L		A - 5	224250	216	288	360
5L		A - 6	222813	218	290	363
6L		A - 7	221375	219	292	365
7L		A - 8	219938	221	294	368
8L		A - 9	218500	222	296	370
9L		A - 10	217063	223	298	372
10L		A - 11	215625	225	300	375
11L		A - 12	214188	226	302	377
12L		A - 13	212750	228	304	380
13L		A - 14	211313	230	306	383
14L		A - 15	209875	231	308	385
15L		A - 16	208438	233	310	388
16L		A - 17	207000	234	312	390

LV VOLTAGES AND CURRENTS			
LV VOLTS	AMPERES AT		
	84 MVA	112 MVA	140 MVA
34500	1406	1874	2343

DWG. D-15680 REV. 1

Siemens S.A. de C.V.

MADE IN MEXICO

MATERIAL : STAINLESS STEEL 0.031" THK  
 STEEL BACK GROUND, LINES LETTERS, ETC. BLACK.

GUARANTEED IMPEDANCE AT POS. N IS 10.5% AT 84 MVA (H-X)  
 DATE, SERIAL AND TESTED IMPEDANCE WILL BE STAMPED ON NAMEPLATE.

CERTIFIED FOR RECORD

REVISIONS

E.ON CLIMATE & RENEWABLE  
 CLINTON WIND FARM

NAMEPLATE

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS

REV.

1

REVISIONS

REVISIONS

REVISIONS