



ABB POWER T&D COMPANY, INC.

THREE PHASE
60 HERTZ
TYPE XL
TRANSFORMER
CLASS DA / FA / FA
INSULATION INSULATION

WINDING
115000 GROY/66395 VOLTS
13800 VOLTS

85% C. AVG. RISE
28600/38100/47700 KVA
28600/38100/47700 KVA

L-SPES SNL58
WINDING DIAGRAM SNL58

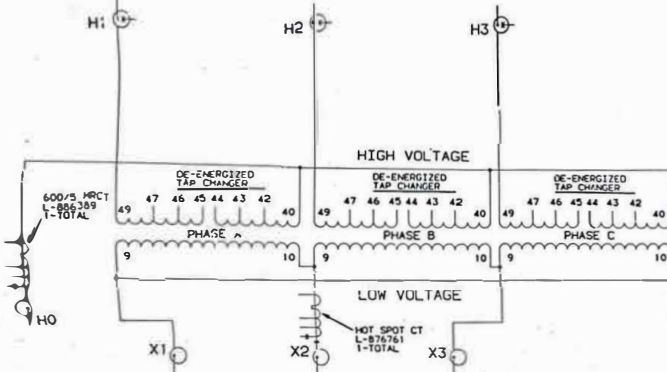
REF. []

IMPEDANCE [] % AT 26800 KVA, 115000 TO 13800 VOLTS

FULL WAVE IMPULSE TEST LEVEL: HIGH VOLTAGE 550 KV, LOW VOLTAGE 110 KV,
HIGH VOLTAGE NEUTRAL 110 KV,
HIGH VOLTAGE NEUTRAL BUSHING 110 KV.

APPROX. WEIGHT IN LBS. [] CASE [] OIL [] TOTAL []

CAUTION: DO NOT ATTEMPT TO HANDLE, INSTALL, USE OR SERVICE THIS TRANSFORMER BEFORE READING INSTRUCTION BOOK SNL5812-12. TO DO SO MAY LEAD TO BODILY INJURY OR PROPERTY DAMAGE OR BOTH.



CONNECTIONS				
WINDING	VOLTAGE	AMPERES AT 47700 KVA	DE-ENERGIZED TAP CHANGER POS. CONNECTIONS IN EACH PHASE	
HIGH VOLTAGE	120750	228	1	44 TO 45
	117875	234	2	43 TO 45
	115000	239	3	43 TO 46
	112125	246	4	42 TO 46
	109250	252	5	42 TO 47
LOW VOLTAGE	13800	1996		

STEP-UP TRANSFORMER.

THE TRANSFORMER IS DESIGNED FOR OPERATION BETWEEN PRESSURE LIMITS OF 0.5 POUNDS PER SQUARE INCH POSITIVE AND 6.5 POUNDS PER SQUARE INCH POSITIVE.

THE TRANSFORMER MUST NOT BE ENERGIZED FROM ANY VOLTAGE SOURCE WHEN DE-ENERGIZED TAP CHANGERS ARE OPERATED.

THE 20°C LIQUID LEVEL IS 19.00 INCHES BELOW TOP OF HIGHEST MANHOLE PLANCE. LIQUID LEVEL CHANGES 0.670 INCHES FOR EACH 10°C CHANGE IN AVERAGE LIQUID TEMPERATURE.

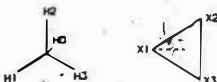
THE TRANSFORMER TANK IS DESIGNED TO WITHSTAND COMPLETE VACUUM AND AN INTERNAL PRESSURE OF 10 POUNDS PER SQUARE INCH.

THE HIGH VOLTAGE WINDING NEUTRAL MUST BE PERMANENTLY GROUNDING EITHER DIRECTLY OR THROUGH A LOW IMPEDANCE. IF AN IMPEDANCE IS PLACED IN THE GROUND CIRCUIT, THE VOLTAGE FROM NEUTRAL TO GROUND DURING A FAULT MUST NOT EXCEED 15000 VOLTS.

UNLIFTING WEIGHT (HEAVIEST PIECE) 81700 LBS.

CONDUCTOR MATERIALS: H.V. CU., L.V. CU.

PHASOR DIAGRAM:



MADE IN U.S.A.

NP# SNL5812-10 SUB A

.032 STAINLESS STEEL #6240-SATIN FINISH-ETCHED-FILLED WITH BLACK ENAMEL.
REDUCE TO 7-1/2 IN. X 15 IN. 1/4 IN. HOLE (4 TOTAL)
14-7/16 IN. BETWEEN CENTERS OF HOLES ON LONG EDGE OF PLATE.
6-13/16 IN. BETWEEN CENTERS OF HOLES ON SHORT EDGE OF PLATE.
ARROW, SEC.-ST. LOTS

SUB	H.P. DRAFT. DATE	H.P. DRAFT. DATE	H.P. DRAFT. DATE	H.P. DRAFT. DATE	H.P. DRAFT. DATE
	ENG. DESIGNER	ENG. DESIGNER	ENG. DESIGNER	ENG. DESIGNER	ENG. DESIGNER
SNL5812-10	ABB POWER T&D COMPANY, INC.				
APPARATUS TRANSFORMER					
INSTRUCTION NAME PLATE					
DIMENSIONS IN DECIMALS INCHES					
SUB A					
DATE 11/17/91					
POWER TRANSFORMER DIVISION					
MUNICIPALITY OF ST. LOUIS, MO					

DATE FILED	11-17-91
TITLE	TRANSFORMER NAME PLATE
DESIGNED BY	SNL5812-10
APPROVED BY	
REVISIONS	
1. INFORMATION	2. RELEASED FOR
3. APPROVED AS REVISED	4. FABRICATION
5. ACCEPTABLE	6. PURCHASE OF
7. UNACCEPTABLE	8. AS BUILT
TOTAL & LIMITED ENGINEERING CORPORATION	
REPROducible LEAD ENGINEER	
DATE 11-17-91 BY [Signature]	