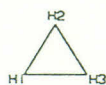


CUTLER - HAMMER

VOLTS		THREE PHASE TYPE RSL OIL INSULATED UNIT SUBSTATION TRANSFORMER CLASS OA/FA INSULUR INSULATION	FULL LOAD KVA			
HV	13800-		8000/8960	OA		
LV	2400Y/1386		10000/11200	FA		
60 HERTZ			45/55	C RISE		
INSTRUCTION BOOK		PC-G-1002	SERIAL	HBB0719--	MANUFACTURE DATE	
FULL WAVE IMPULSE TEST LEVEL: H.V. 95 KV., L.V. 45 KV.						
IMPEDANCE % AT 8000 KVA 13800 TO 2400Y VOLTS.						
APPROX. WEIGHT IN LBS. CORE AND COILS		CASE	LIQUID	TOTAL		
MADE IN U.S.A.		ABB POWER T&D COMPANY INC.				HBB0719N1



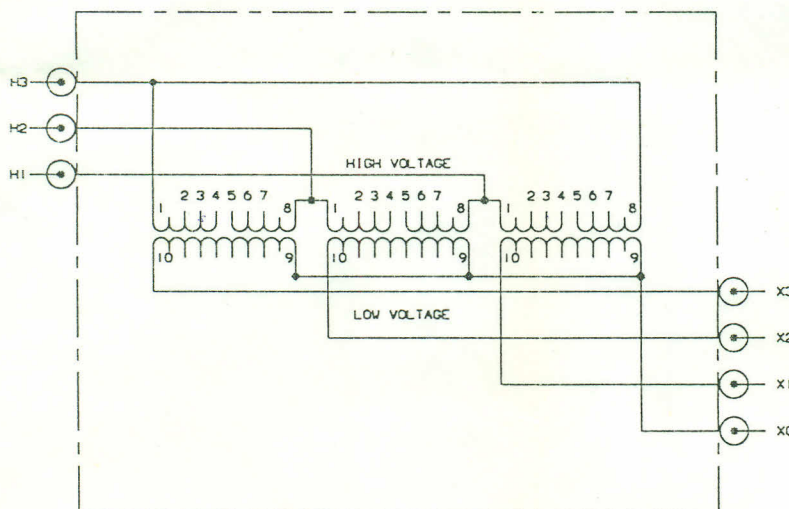
HY-CU

LV-CU

CONNECTIONS					
WINDING	VOLTS	11200KVA AMPERES	POS.	TAP CHANGER	
				CONNECTS	
HIGH VOLTAGE DELTA	14490	446.3	1	4	TO 5
	14150	457.0	2	3	TO 5
	13800	468.6	3	3	TO 6
	13460*	480.4	4	2	TO 6
	13110	493.3	5	2	TO 7
LOW VOLTAGE WYE	2400	2694.4			

ENGINEERING REF.
MIS. 24
SHOP INFORMATION

PO # 2143-402
GO # HUGR18330
ITEMS 01A & 02A



DRAIN VALVE SIDE

* THE X0 BUSHING IS ON THE COVER * THIS DESIGN IS GOOD FOR OPERATION IN A 40°C AVERAGE TEMPERATURE WITH A 50°C MAXIMUM DURING A 24 HOUR PERIOD
THIS TRANSFORMER WILL CARRY KVA WITHOUT EXCEEDING 55°C AVERAGE TEMPERATURE RISE WHEN ADEQUATE COOLING EQUIPMENT IS ADDED
THE OPERATING PRESSURE IS LIMITED BY THE SEALED-AIR FLUID PRESERVATION SYSTEM, WHEN PROVIDED, TO 6.5 LBS. PER SQUARE INCH POSITIVE AND 6.5 LBS. PER SQUARE INCH NEGATIVE.
THE TRANSFORMER TANK IS DESIGNED TO WITHSTAND A POSITIVE OR NEGATIVE PRESSURE OF 15 LBS. PER SQUARE INCH.
THE 25°C LIQUID LEVEL IS 8.37 INCHES BELOW HIGHEST MAN-HOLE FLANGE.
LIQUID LEVEL CHANGES .67 INCH FOR EACH 10°C CHANGE IN AVERAGE LIQUID TEMPERATURE.
THE TRANSFORMER MUST NOT BE ENERGIZED FROM ANY VOLTAGE SOURCE WHEN TAP CHANGER IS OPERATED.
SUITABLE FOR OPERATION AT OR BELOW 3300 FEET ALTITUDE AT NAMEPLATE RATING.
AT THE TIME OF SHIPMENT THIS UNIT CONTAINED LESS THAN 1 PPM OF PCBs.

SHOP ORDER

HBB0719

NAMEPLATE S#

HBB0719N1

S.O. HBB0719

PROPORTION 2 1/2:1 .032 STAINLESS STEEL #7004-19 -- SATIN FINISH - ETCHED.

5/16 IN. HOLES FOR 190-32 X 3/16 SCREW.

SIZE 6 1/4 IN. X 10.0 IN. AREA 62.8 SQ. IN. RETURN TO SOUTH BOSTON

DISTANCE BETWEEN CENTERS OF HOLES ON LONG EDGE 9 19/32 IN. ± 1/64 ON SHORT EDGE 6 27/32 IN. ± 1/64

N.P. DRAFT. DRAFT. ENGINEER	DATE	N.P. DRAFT. DRAFT. ENGINEER	DATE	N.P. DRAFT. DRAFT. ENGINEER	DATE	N.P. DRAFT. DRAFT. ENGINEER	DATE
W. H. H.	08/16/90						

REPRODUCE ON GRADE P -- 115 PAPER SHEET NO. 2701-B SOUTH BOSTON 6-30-65

CUSTOMER NOTE: N.P. DUG. IS FOR YOUR INFO. REVIEW THE IMPEDANCE, WHICH TESTS
LEFT BLANK SINCE DUG. IS SUBMITTED PRIOR TO MFG. THE ACTUAL
VALUE ENGRAVED ON THE METAL N.P. AT TIME OF SHIPMENT. THIS DUG. IS NOT
SUBSE. Y REVISED TO ADD TESTED VALUES.

SEES FOR NAMEPLATE
STOCK NO. HBB0719N1