

TRANSFORMER DATA SHEET

DATE : 06/25/2006
 CUSTOMER : HVES
 CIRCUIT/LOCATION : HVES 10A
 MANUFACTURER : HK Porter Co./Delta Star
 TRANSFORMER TYPE : Substation CLASS : OA/FA
 S/N : W265021
 THREE PHASE SINGLE PHASE : 60 HERTZ

VOLTAGE RATING: 34400 Delta - 2400 Delta/4160Y/2400 LV WINDING: ALUMINUM
 KVA RATING: 5000 Continuous, Self Cooled HV WINDING: ALUMINUM
 6250 Continuous, Forced Air LV: 55°C rise, BIL: 75 kV
 HV: 65°C rise, BIL: 200 kV

NAMEPLATE DATA

Core & Coils	12500
Case & Fittings	9000
Oil in Gallons	1600/12000
Weight in Pounds	33500

Impedance volts : 10.9 % at rated volts at : 5000 KVA

TRANSFORMER TEST DATA

MEGGER TEST RESULTS

1 Minute

High-> Ground	3000	M-Ohms, @	10	kV DC
Low -> Ground	3000	M-Ohms, @	5	kV DC
High-> Low	2500	M-Ohms, @	10	kV DC

POLARIZATION
INDEX

CAPACITANCE in
MICRO-FARAD

TRANSFORMER TTR TESTS

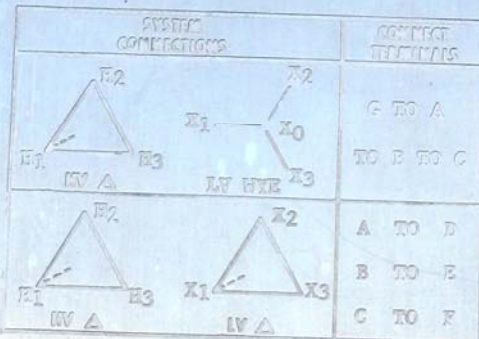
TAP (V)	CALC. TTR	PHASE 1	PHASE 2	PHASE 3
36200	15.083	15.088	15.093	15.089
35300	14.708	14.715	14.721	14.720
34400	14.333	14.347	14.350	14.351
33500	13.958	13.973	13.978	13.978
32600	13.583	13.604	13.607	13.609

COMMENTS

Tag 10957
 Date of manufacture: 1973
 Stored at Mullin's Yard

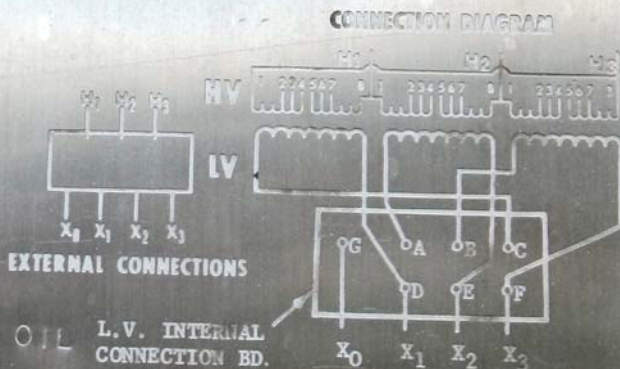
DELTA-STAR TRANSFORMER ET 12647

NO. 285021 KVA 5000/6300 CONT. RISE 55 °C CLASS OMFA
 VOLTAGE RATING 34400 - 2400 / 4150Y / 2400
 THREE PHASE 60 CYCLES TYPE PT FORM C3 IMP. 0.3% AT 85 °C.



MV TAP CONNECTIONS		TAP CHANGER		
LINE VOLTAGE	LINE AMPS	POSITION	TAPS	DIAG
36200	100	1	4 AND 5	
35800	102	2	3 AND 5	
34400	105	3	2 AND 6	
33500	108	4	1 AND 6	
32600	111	5	2 AND 7	

FULL WAVE IMPULSE LEVEL HV 200 BIL
 HV WINDING 75 BIL
 LV WINDING 75 BIL
 APPROXIMATE WEIGHT IN LBS.
 UNTANKING 12500
 TANK AND FITTINGS 9000
 1600 GALLONS LIQ 12000
 TOTAL WEIGHT 33500



TRANSFORMER FILLED WITH I.N.H. OIL L.V. INTERNAL CONNECTION BD.

LIQUID LEVEL BELOW TOP OF MANHOLE FLANGE AT 25°C 14 INCHES.
 LIQUID LEVEL CHANGES $\frac{9}{16}$ INCHES PER 10°C CHANGE IN LIQUID TEMPERATURE.
 TRANSFORMER TANK TO WITHSTAND 15 LBS. NEGATIVE AND 15 LBS. POSITIVE PRESSURE.

D W & P NO 297 1973 NP 4216-3774
 BEFORE INSTALLING OR OPERATING READ INSTRUCTIONS

PORTER ELECTRICAL DIVISION
 H. K. PORTER COMPANY, INC.

REC. NO. B 1205
 GALS. OIL 1800
 TOTAL WT. 33500

KVA 5000
 15515
 HK Porter

Stock # S15515

Mfg. OTHER

Serial # W265021

kVA 5000 Base

HV 34400 D

LV 4160 Y 2400

Taps 1: 36200 2: 35300 3: 34400 4: 33500 5: 32600

NAMEPLATE INFORMATION

Phase
 Frequency
 Temp Rise 55/65
 Class
 HV Conductor AL
 LV Conductor AL
 Impedance (%Z) 10
 Fluid OIL
 Gallons 1600
 Fluid Status F

INCLUDED ACCESSORIES

- Drain and sample valve
- Dial-Type Thermometer
- Dial-Type Thermometer with Contacts
- Liquid Level Gauge
- Liquid Level Gauge with Contacts
- Pressure Vacuum Gauge
- Pressure Release Valve
- Pressure Relief Device
- Pressure Relief Device with Contacts
- HV Arrester Bracket
- LV Arrester Bracket
- HV Arresters
- LV Arresters
- Winding Temperature Indicator
- Sudden Pressure Relay
- Fans
- Auxilliary Control Cabinet
- Nitrogen Preservation System

WEIGHTS & DIMENSIONS

A. Height 108"
 B. Width 96"
 C. Depth 132"
 D. Footprint Width 130"
 E. Footprint Depth 44"
 F. FL - FL "
 G. Radiator Depth - Front
 H. Radiator Depth - Back
 I. HV Bushing Height 130"
 J. LV Bushing Height 112"

Untanking Weight 12,500 lbs.
 Tank and Fittings 9,000 lbs.
 Total Weight 33,500 lbs.

BUSHINGS

HV Qty: 3 Style: STUD
 Termination: TOP Location:

HV Neutral Qty: Style:
 Location:

LV Qty: 4 Style: STUD
 Termination: TOP Location:

Weld-in: ?

LV Neutral Qty: Style: Location:
 Weld-in: ?

TECHNICAL NOTES

RADIATORS

Style FIN Weld-In