

ANSI PERFORMANCE DATA

For: XXXXXXXXXX

RATING					
Type	GSU	CLASS	H Winding	X Winding	Y Winding
Phase	3		69000Y/39837 V	34500 Y / 19919 V	12470 (Burried) V
Hertz	60	ONAN	15000 KVA	15000 KVA	5250 KVA
Temp. Rise	65°C	ONAF	20000 KVA	20000 KVA	7000 KVA
Insul. Liquid	Oil	ONAF	25000 KVA	25000 KVA	8750 KVA

ADDITIONAL TAP VOLTAGES	
H Winding:	±10% in 32-5/8% steps (Equal) by "ABB-UZE" Resistive type LTC (FC)
X Winding:	NO TAPS

INSULATION LEVELS (KV BIL)		
	Winding	Bushing
H Line	350	350
H0 Neutral	110	110
X Line	200	200
X Neutral	110	110
Y Line	---	---

DIELECTRIC TESTS		
Applied Voltage (to other windings and ground)	H Winding	34 KV
	X Winding	34 KV
	Y Winding	
Induced Voltage	Line to Line	124.2 KV

PERFORMANCE DATA: Based on 85°C Reference Temperature and Rated					15 MVA 69Y - 34.5Y	
Losses and Exciting Current					Regulation @ 15 MVA	
Excitation	% Ex. I	No Load @ 20°C	Load Loss	Total Loss	Power Factor	% Regulation
100%	0.5	14500 W *	63500 W	78000 W *	1	0.83
105%	0.8	18125 W			0.9	4.56
110%	1.2	21750 W			0.8	5.97

AUXILIARY LOSSES		
Transformer KVA	Class	Aux Loss (Watts)
20000 KVA	ONAF	1200 W *
25000 KVA	ONAF	2400 W *
Sound Level : 70/72/73 dBA*		

PERCENT IMPEDANCE					
% IZ	Btwn Wdg	At MVA	% IZ _o	Btwn Wdg	At MVA
9	H-X	15 *			

EFFICIENCIES @ 15 MVA				
Load %	Full Load	3/4 Load	1/2 Load	1/4 Load
100	99.48	99.56	99.6	99.51

MECHANICAL DATA			
Dimensions		Assembled	Shipping
Height	(A)	181	162.5
Width	(B)	186	186
Depth	(C)	156.5	85
Height Over Cover	(D)	135.5	
Untanking (Plus Sling)	(E)	320	
Weights (Approx.) (Pounds)			
Core & Coils			38950
Tank & Fittings			26720
Oil (4687 Gal) Main			35155
Oil (154 Gal) LTC			1155
Shipping Weight with Oil			91670
Total Weight			105400

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Phase	3		69000Y/39837 V	34500 Y / 19919 V	12470 (Buried) V
Hertz	60	ONAN	15000 KVA	15000 KVA	5250 KVA
Temp. Rise	65°C	ONAF	20000 KVA	20000 KVA	7000 KVA
Insul. Liquid	Oil	ONAF	25000 KVA	25000 KVA	8750 KVA

ADDITIONAL TAP VOLTAGES	
H Winding:	±10% in 32-5/8% steps (Equal) by "RMV-II Vacuum type LTC (FC)
X Winding:	NO TAPS

INSULATION LEVELS (KV BIL)		
	Winding	Bushing
H Line	350	350
H0 Neutral	110	110
X Line	200	200
X Neutral	110	110
Y Line	----	----

DIELECTRIC TESTS		
Applied Voltage (to other windings and ground)	H Winding	34 KV
	X Winding	34 KV
	Y Winding	
Induced Voltage	Line to Line	124.2 KV

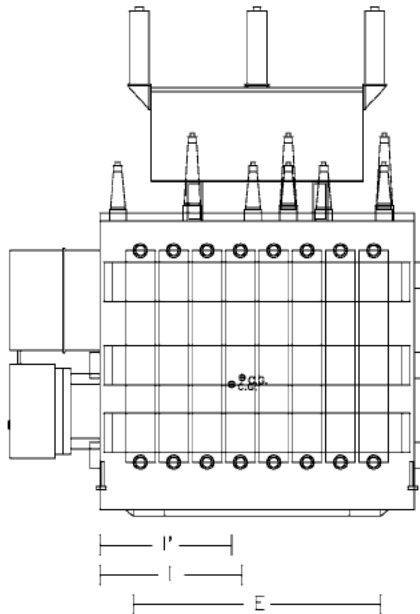
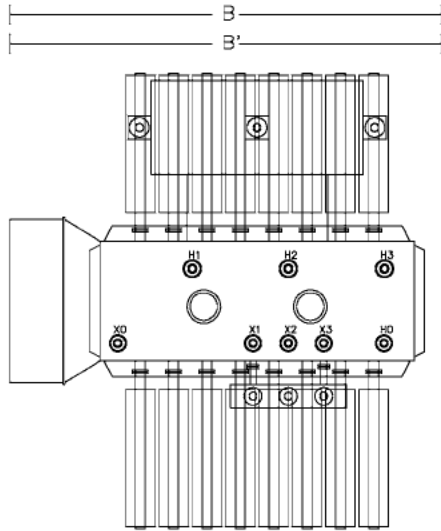
PERFORMANCE DATA: Based on 85°C Reference Temperature and Rated					15 MVA 69Y - 34.5Y	
Losses and Exciting Current					Regulation @ 15 MVA	
Excitation	% Ex. I	No Load @ 20°C	Load Loss	Total Loss	Power Factor	% Regulation
100%	0.5	12000 W *	49000 W	61000 W *	1	0.73
105%	0.8	15000 W			0.9	4.48
110%	1.2	18000 W			0.8	5.9

AUXILIARY LOSSES		
Transformer KVA	Class	Aux Loss (Watts)
20000 KVA	ONAF	400 W *
25000 KVA	ONAF	800 W *
Sound Level : 60/62/63 dBA*		

PERCENT IMPEDANCE					
% IZ	Btwn Wdg	At MVA	%Iz _o	Btwn Wdg	At MVA
9	H-X	15 *			

EFFICIENCIES @ 15 MVA				
Load %	Full Load	3/4 Load	1/2 Load	1/4 Load
100	99.59	99.65	99.68	99.6

MECHANICAL DATA			
Dimensions		Assembled	Shipping
Height	(A)	210	160
Width	(B)	216	216
Depth	(C)	230	88
Height Over Cover	(D)	160	
Untanking (Plus Sling)	(E)	328	
Weights (Approx.) (Pounds)			
Core & Coils			62500
Tank & Fittings			59300
Oil (6795 Gal) Main			50963
Oil (345 Gal) LTC			2588
Shipping Weight without Oil			85355
Total Weight			176200



Standard Bill of Material

(Actual accessories, quantities and placement may vary)

H.V. Bushing, CAT. # SIEMENS STAROIP 350-69-800 E21
H.V. Neutral Bushing, CAT. # SIEMENS STAROIP 150-25-3000 E21
L.V. Bushing, CAT. # SIEMENS STAROIP 200-34.5-2000 E21
L.V. Neutral Bushing, CAT. # SIEMENS STAROIP 150-25-3000 E21
H.V. Lightning Arrestors
L.V. Lightning Arrestors
Weatherproof compartment for Load Tap Changer switch
Weatherproof Control Cabinet
Structural Steel Base
Conservator
Jack Pads with provisions for pulling in either direction
Detachable Plate type Radiators
Cooling Fans

Standard Accessories

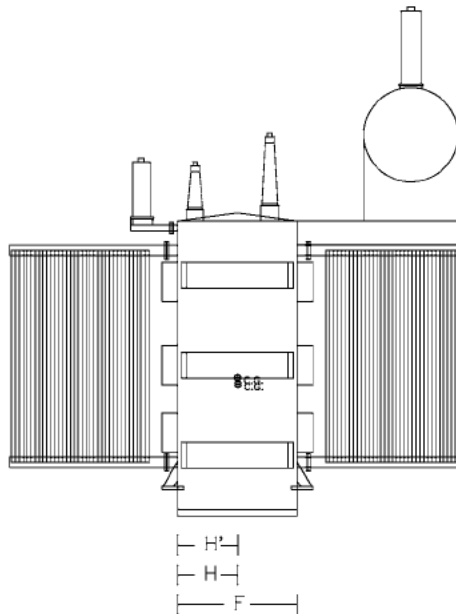
Hot Spot Thermometer
Top Oil Gage
Pressure Vacuum Gage
Core Ground Bus
FILLER VALVE (2")
DRAIN VALVE (2") WITH 3/8 SIDE SAMPLER
Ground Pads @ base of unit on diagonal corners
4" VACUUM FLANGE
Removable Plate in Control Cabinet
Nameplate
Mechanical Pressure Relief Device
Oil Level Gage
LTC: RMV-II-VACUUM TYPE LTC(FC)
Oil Level Gage
OIL DRAIN VALVE (2") WITH 3/8 SIDE SAMPLER
OIL FILLER VALVE (2")
Mechanical Pressure Relief Device

DIMENSIONS (IN INCHES +/- 6")

A - (Height)	= 210
B - (Width)	= 216
C - (Depth)	= 230
D - (Stripped Height)	= 180
E - (Base Bearing Length)	= 125
F - (Base Bearing Depth)	= 61
G - (Complete Vertical Center of Gravity)	= 70
H - (Complete HV to LV Center of Gravity)	= 30
I - (Complete Left to Right Center of Gravity)	= 72
A' - (Shipping Height)	= 160
B' - (Shipping Width)	= 216
C' - (Shipping Depth)	= 88
G' - (Shipping Vertical Center of Gravity)	= 67
H' - (Shipping HV to LV Center of Gravity)	= 30
I' - (Shipping Left to Right Center of Gravity)	= 67
Untanking Height	= 328

Weights (in pounds +/- 10%)

Core and Coils	= 62500
Tank and Fittings	= 59300
LTC Mechanism	= 2700
Oil (6795) Main Tank and Rads	= 50963
Oil (345) LTC Compartment	= 2588
Untanking Weight	= 62500
Shipping Weight With Out Oil	= 85350
Total Weight	= 176200



PENNSYLVANIA TRANSFORMER
TECHNOLOGY, INC.

KVA 15000./20000./25000. KVA POWER TRANSFORMER.
Temperature Rise: 65°C
HV - LV - TV: 69000.Y/39837. - 34500.Y/19919. - 12470. VOLTS.
Preliminary:
See final outline for complete Bill of Materials.

SK-P28754-2

Date: 04/27/22

Time: 02:01:33

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