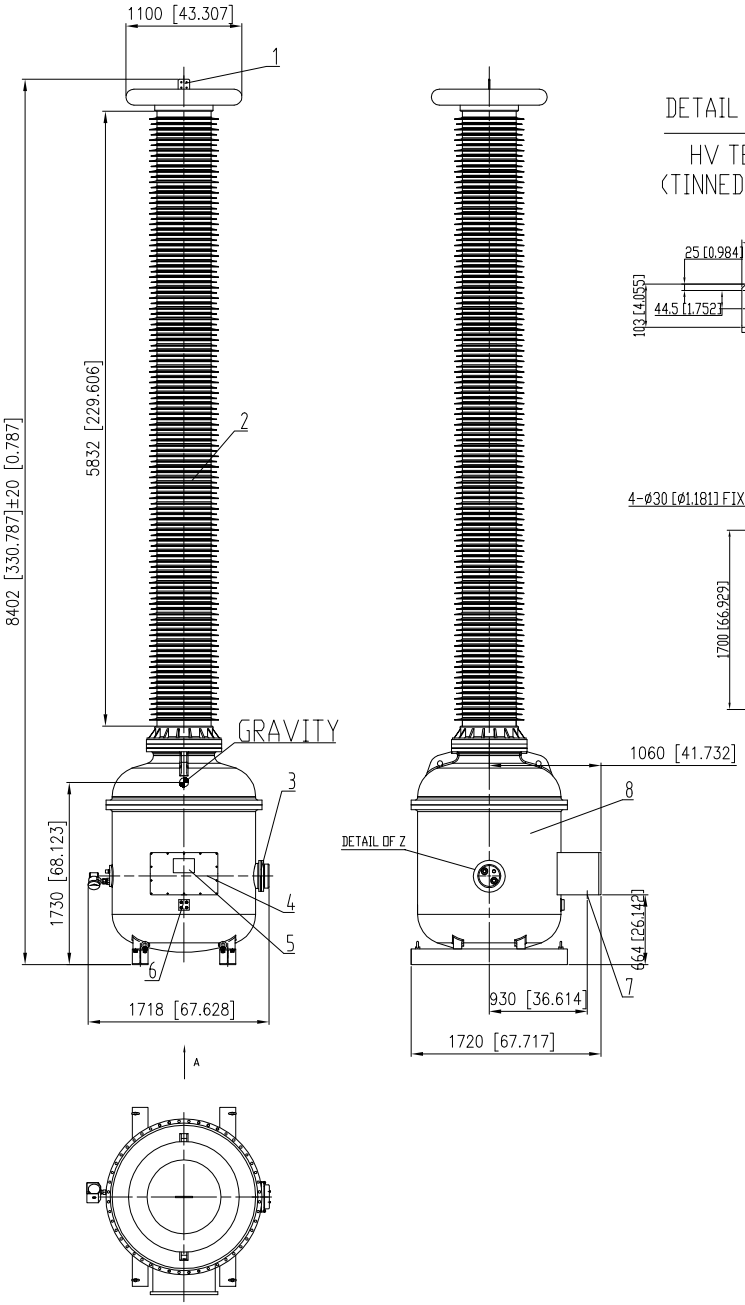
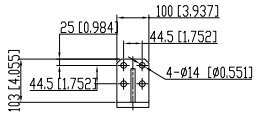
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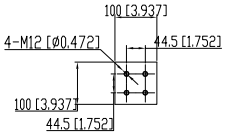
OUTLINE DRAWING OF 345KV POWER VOLTAGE TRANSFORMER, SF6 INSULATION
POWER BURDEN: 167kVA



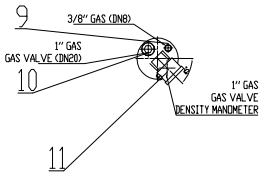
DETAIL OF ITEM #1
HV TERMINAL
(TINNED ALUMINUM)



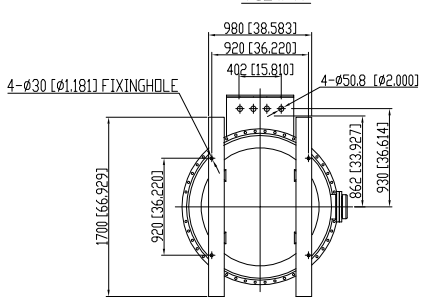
DETAIL OF ITEM #6
GROUNDING TERMINAL
(TINNED COPPER)



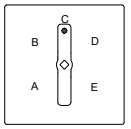
DETAIL OF Z



VIEW A

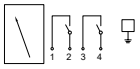


TAP CHANGER HANDLE



VOLTAGE (%)	SWITCH POSITION
105.0 %	A
102.5 %	B
100 %	C
97.5 %	D
95.0 %	E

RATED PRESSURE 0.50 MPa SF6
1-2 ALARM PRESSURE OPERATING PRESSURE 0.48 MPa SF6 (NO contact)
3-4 MINIMUM OPERATING PRESSURE 0.45 MPa SF6 (NO contact)



MAIN ELECTRICAL CHARACTERISTICS

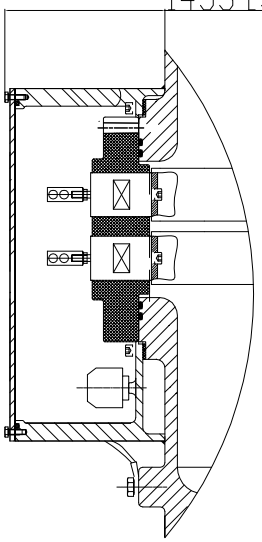
- STANDARDS: ANSI/ IEEE C57.13
- RATED VOLTAGE: 550 kV
- RATED FREQUENCY: 60 Hz
- POWER FREQUENCY TEST VOLTAGE: 680 kV 1min
- LIGHTNING IMPULSE TEST VOLTAGE: 1700 kV 1.2/50 μs
- SWITCHING IMPULSE WITHSTAND VOLTAGE: 1175kV
- VOLTAGE FACTOR: 1.2, cont. 1.5, 30s.
- PRIMARY OPERATING VOLTAGE: 345000/ √3 V
- NOMINAL SECONDARY VOLTAGE: 120-240 V
- POWER RATING: 167 kVA
- TEMPERATURE RISE: 55℃
- 5-POSITION TAP CHANGER
- TAP QTY: (2) FCAN ABOVE TAPS, (2) FCBN BELOW TAPS
- MINIMUM DEGREE OF PROTECTION: IP55
- ELEVATION LEVEL: 8100FT (2468.88 METERS) ABOVE SEA LEVEL
- TEMPERATURE RANGE: -50℃~+40℃
- COMPOSITE INSULATOR -GREY
- MIN. CREEPAGE DISTANCE : 17050 mm=671.26"
- MIN. ARCING DISTANCE: 5832 mm=229.61"
- SF6 WEIGHT: 180 kg=396.83 lbs
- TOTAL WEIGHT: 4100 kg=9038.95 lbs
- OPERATING PRESSURE SF6 0.50 MPA A 20℃ (REL.)
- ALARM PRESSURE SF6 0.48 MPA A 20℃ (REL.)
- MINIMUM OPERATING PRESSURE SF6 0.45 MPA A 20℃ (REL.)
- RUPTURE OF PRESSURE (20℃) 1.3 MPA 0+10%
- DESIGN PRESSURE 1.0MPA
- ENCLOSURE ACCORDING TO DM 1 12 1980

SR.NO.	DESCRIPTION
1	HV TERMINAL STUD
2	COMPOSITE INSULATOR -GREY
3	OVERPRESSURE RELIEF DEVICE
4	SECONDARY TERMINAL BOX
5	NAME PLATE
6	EARTH/GROUND TERMINAL
7	LV CABLE GRAND HOLE
8	ENCLOSURE
9	SF6 GAS FILLING VALVE-DN8
10	SF6 GAS FILLING VALVE-DN20
11	DENSITY MANOMETER
12	TAP CHANGER HANDLE

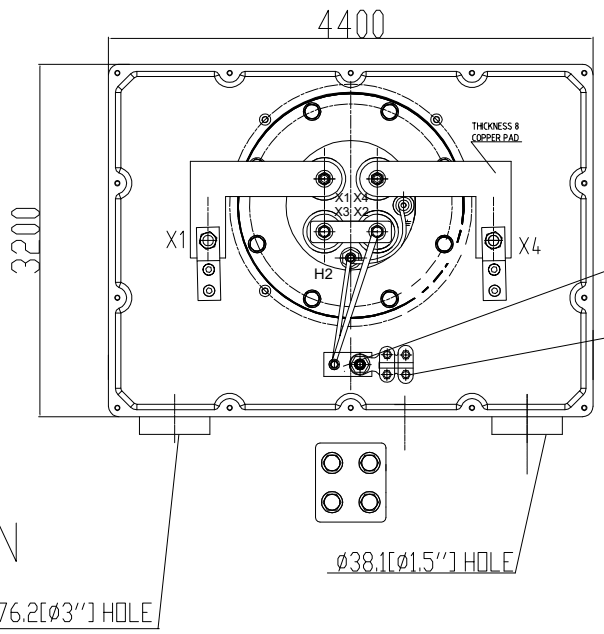
TITLE:	OUTLINE DRAWING	345KV POWER VOLTAGE TRANSFORMER			
PROJECT NO.:		TYPE			
CUSTOMER:		QUANTITY	1 NOS		
PO NO:		COMBINED		NAME	SIGN / DATE
ALL DIMENSIONS IN MM [INCHES]		SCALE: 1:1	DRN		
			CHD		
			APPD		
LARSON MAGNETICS LLC		DRG.NO:			

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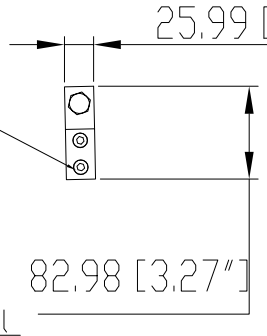
SECONDARY TERMINAL BOX DRAWING OF 345KV POWER VOLTAGE TRANSFORMER
SF6 INSULATION, POWER BURDEN: 167kVA



SERIES CONNECTION 240V



WIRE RANGE: 4/0AWG-290 kcmil

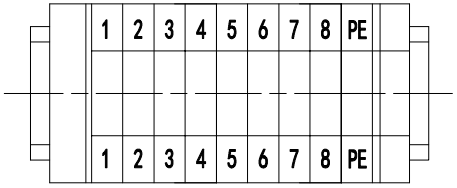


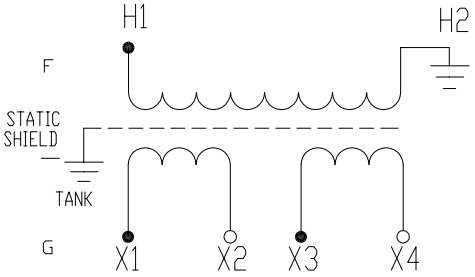
NEMA 2 HOLE EARTHING PAD

WCJB-6 TYPE
WIRE RANGE: 4/0 AWG-290 kcmil

HOLE PAD(COPPER)-ELECTRO TIN

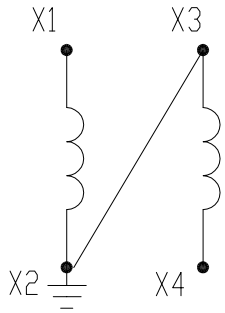
TERMINAL BLOCK



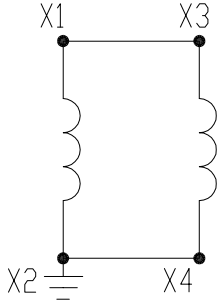


SUBTRACTIVE POLARITY

SERIES CONNECTION
240 V



PARALLEL CONNECTION
120 V



1-2, 3-4 ALARM (DENSITY MANOMETER)
5-6, 7-8 LOCK (DENSITY MANOMETER)

TITLE:	SEC. TERMINAL BOX DRAWING	345kV STATION SERVICE VOLTAGE TRANSFORMER				
PROJECT NO.:		TYPE				
CUSTOMER:		QUANTITY	1 NOS			
PO NO:		COMBINED		NAME	SIGN	DATE
ALL DIMENSIONS IN MM [INCHES]		SCALE: 1:1	DRN			
LARSON MAGNETICS			CHD			
			APPD			
LARSON MAGNETICS LLC		DRG.NO:				