



VOLTAGE RATING	
H.V	115,000 V
X.V	34,500 V
T.V	13,800 V

BIL OF WINDING	
H.V	650 kV
H.V.N	200 kV
X.V	200 kV
X.V.N	200 kV
T.V	110 kV

kVA RATING AT 65°C RISE			
	ONAN	ONAF1	ONAF2
H.V	85,000	115,000	140,000
X.V	85,000	115,000	140,000

SOUND LEVEL	
ONAF2 STAGE (140MVA)	___ dB

THREE PHASE POWER TRANSFORMER

MATERIAL	
INSULATING OIL	ASTM D3487 TYPE II
CONDUCTOR	COPPER

RATED FREQUENCY	60Hz
COOLING METHOD	ONAN/ONAF1/ONAF2

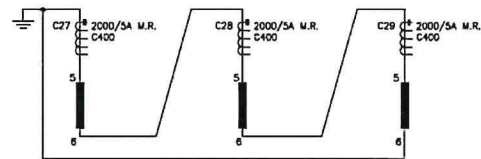
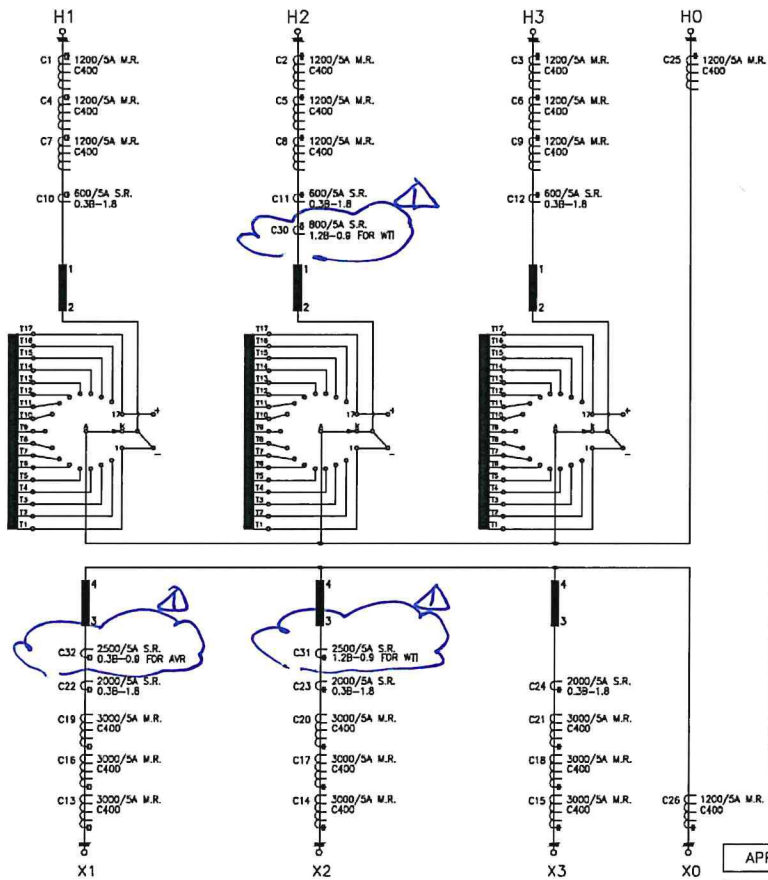
TEMPERATURE RISE	
OIL	65°C
WINDING	65°C

% IMPEDANCE		
H.V - X.V	RAT.	___ %
		AT 85MVA

WEIGHT	
CORE AND COIL	___ lbs
TANK & FITTING	___ lbs
INSULATING OIL	(___ gal)
TOTAL	___ lbs
SHIPPING (WITHOUT OIL)	___ lbs

LOSSES	
NO-LOAD LOSSES	___ kW
LOAD LOSSES (AT 140MVA)	___ kW

WINDING	VOLTS(V)	CURRENT(A)			ON-LOAD TAP CHANGER	
		85MVA	115MVA	140MVA	POSITION	O S
HV	126,500	388	525	639	16L	T1
	125,781	390	528	643	15L	T2
	125,063	392	531	646	14L	T3
	124,344	395	534	650	13L	T4
	123,625	397	537	654	12L	T5
	122,906	399	540	658	11L	T6
	122,188	402	543	662	10L	T7
	121,469	404	547	665	9L	T8
	120,750	406	550	669	8L	T9
	120,031	409	553	673	7L	T10
	119,313	411	556	677	6L	T11
	118,594	414	560	682	5L	T12
	117,875	416	563	686	4L	T13
	117,156	419	567	690	3L	T14
	116,438	421	570	694	2L	T15
	115,719	424	574	698	1L	T16
XV	115,000	427	577	703	NL	T17
	114,281	429	581	707	1R	T2
	113,563	432	585	712	2R	T3
	112,844	435	588	716	3R	T4
	112,125	438	592	721	4R	T5
	111,406	441	596	726	5R	T6
	110,688	443	600	730	6R	T7
	109,969	446	604	735	7R	T8
	109,250	449	608	740	8R	T9
	108,531	452	612	745	9R	T10
	107,813	455	616	750	10R	T11
	107,094	458	620	755	11R	T12
	106,375	461	624	760	12R	T13
	105,656	464	628	765	13R	T14
	104,938	468	633	770	14R	T15
	104,219	471	637	776	15R	T16
	103,500	474	642	781	16R	T17



* CONNECTIONS FOR CURRENT TRANSFORMER

LOCATION	HV (C1-C12)	LOCATION	XV (C13-C21)	LOCATION	TV (C22-C28)
CT CURRENT RATIO	1200:5	CT CURRENT RATIO	3000:5	CT CURRENT RATIO	7000:5
TAP CONNECTION	1200:5 C400	TAP CONNECTION	3000:5 C400	TAP CONNECTION	7000:5 C400
X2 - X3	100 : 5	X3 - X4	300 : 5	X3 - X4	300 : 5
X1 - X2	200 : 5	X4 - X5	500 : 5	X1 - X2	400 : 5
X1 - X3	300 : 5	X3 - X5	800 : 5	X4 - X5	500 : 5
X4 - X5	400 : 5	X1 - X2	1000 : 5	X2 - X3	800 : 5
X2 - X4	500 : 5	X2 - X3	1200 : 5	X2 - X4	1100 : 5
X2 - X4	600 : 5	X2 - X4	1500 : 5	X1 - X3	1200 : 5
X1 - X4	800 : 5	X2 - X5	2000 : 5	X1 - X4	1500 : 5
X3 - X5	900 : 5	X1 - X3	2200 : 5	X2 - X5	1600 : 5
X2 - X5	1000 : 5	X1 - X4	2500 : 5	X1 - X5	2000 : 5
X1 - X5	1200 : 5	X1 - X5	3000 : 5		

LOCATION	HV (C10-C12)	LOCATION	XV (C22-C24)	LOCATION	XV FOR AVR (C31)
CT CURRENT RATIO	800:5	CT CURRENT RATIO	2000:5	CT CURRENT RATIO	2500:5
TAP CONNECTION	0.38-1.8	TAP CONNECTION	0.38-1.8	TAP CONNECTION	0.38-0.8
X1 - X2	600 : 5	X1 - X2	2000 : 5	X1 - X2	2500 : 5

LOCATION	HV FOR WTI (C30)	LOCATION	XV FOR WTI (C31)
CT CURRENT RATIO	800:5	CT CURRENT RATIO	1500:5
TAP CONNECTION	1.28-0.8	TAP CONNECTION	1.28-0.8
X1 - X2	800 : 5	X1 - X2	2500 : 5

* CONTINUOUS THERMAL CURRENT RATING FACTOR OF ALL CTs IS 2.0.

APPLIED STANDARD	: IEEE Std.
INSTRUCTION BOOK NO.	: C41-4229-201909-9930-1000

SERIAL NO.	:
DATE OF MFG.	: 2020.

MADE IN CHINA

NOTE.

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. MATERIAL : STAINLESS STEEL.
3. THICKNESS : 0.079 inch
4. LETTER COLOR : BLACK
5. % IMPEDANCE, SOUND LEVEL & DATE OF MFG., WEIGHT & LOSSES WILL BE ENGRAVED AFTER HICO FACTORY TEST.

< CALCULATED VALUE OF WEIGHT >

WEIGHT	
CORE AND COIL	139,551 lbs
TANK & FITTING	85,759 lbs
INSULATING OIL	68,343 lbs (9,078 gal)
TOTAL	293,653 lbs
SHIPPING (WITHOUT OIL)	187,170 lbs

1. MAXIMUM OPERATING PRESSURE OF LIQUID PRESERVATION SYSTEM(CONSERVATOR) : ATMOSPHERIC PRESSURE. TANK DESIGNED FOR 14.7 PSI VACUUM FILLING.
2. THE INSULATING OIL CONTAINS NO DETECTABLE LEVEL OF PCB AT THE TIME OF MANUFACTURE.
3. DO NOT PLACE TEMPORARY LOADS OR STAND ON THE TRANSFORMER WHEN THE TANK IS UNDER VACUUM.

3ø 60Hz 85/115/140MVA 115/34.5/13.8KV YD ONAN/ONAF/ONAF

NAMEPLATE	
TYPE	EH1BA00754
SCALE	1:1
DATE	2020-05-27
REVISION	01
HYOSUNG, China	
POWER TRANSFORMER	