



WEG TRANSFORMADORES MEXICO S.A. DE C.V.
THREE-PHASE POWER TRANSFORMER
SUITABLE FOR STEP DOWN - STEP UP

SERIAL NUMBER 1059894558 TYPE 15996779 PHASES 3 STANDARD IEEE Std C57.12.00-2015 FREQUENCY 60 Hz ALTITUDE 3300ft MANUFACTURE MONTH/YEAR DECEMBER / 2021

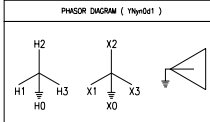
RATED VOLTAGE (V)
230000 GrdY/132791 - 34500 GrdY/19919 - 13800 Δ
kVA RATING 72000 CONTINUOUS @ 55 °C RISE ONAN
kVA RATING 96000 CONTINUOUS @ 55 °C RISE ONAF
kVA RATING 120000 CONTINUOUS @ 55 °C RISE ONAF

TERTIARY VOLTAGE 13800V ONLY FOR HARMONIC COMPENSATION ONE CORNER GROUNDING
kVA RATING 24000 / 32000 / 40000 kVA @ ONAN / ONAF / ONAF

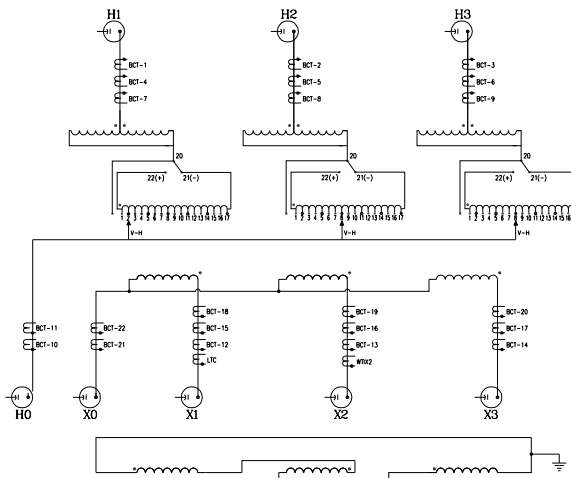
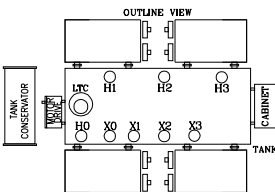
IMPEDANCE AT 75°C			
BASE	VOLTAGE (V)	%	
72000 kVA	23000 - 34500	11.06	
72000 kVA	23000 - 34500	10.46	
72000 kVA	207000 - 34500	10.20	

BASIC IMPULSE LEVEL (kV)			
WINDINGS	H1,X2,X3	H0	X0
72000	900	200	200
96000	900	200	200
120000	900	200	200

LTC MANUFACTURER - TYPE: ABB - VUCORN 380/450/C			
APPROXIMATE WEIGHTS			(lb)
CORE AND COILS			140 046
TANK AND FITTINGS			99 254
INSULATING LIQUID 11 184 Gallons			83 070
TOTAL WEIGHT			322 370
UNTANKING WEIGHT (HEAVIEST PIECE)			140 046
SHIPPING WEIGHT			189 420
WITH OIL: _____			WITHOUT OIL: <u> X </u>



NECESSARY HEIGHT FOR (m)	
CORE AND COILS LIFTING	524
APPROXIMATE VOLUME (GALLONS)	
LTC INSULATING LIQUID	39
RADIATORS INSULATING LIQUID	1 047
MAIN TANK INSULATING LIQUID: INHIBITED MINERAL OIL TYPE II	
LTC INSULATING LIQUID: INHIBITED MINERAL OIL TYPE II	



- NOTES
- 1 - POSITIVE OPERATING PRESSURES OF LIQUID PRESERVATION SYSTEM 10 lb/in² MAXIMUM AND 0.5 lb/in² MINIMUM.
 - 2 - TANK DESIGNED FOR 14.7 lb/in² VACUUM FILLING.
 - 3 - TANK, CONSERVATOR, RADIATORS AND ACCESSORIES WITHSTAND FULL VACUUM (133.3 Pa = 1 mm Hg).
 - 4 - ALL WINDINGS ARE COPPER.
 - 5 - INHIBITED MINERAL OIL TYPE II AS INSULATING LIQUID, CONTAINS NO DETECTABLE LEVEL OF PCB AT THE TIME OF MANUFACTURE.

CAUTION:

- 1 - BEFORE INSTALLING OR OPERATING READ INSTRUCTIONS MANUAL: MWM-WTM.
- 2 - DO NOT OPERATE TRANSFORMER WHEN THE READING OF LIQUID LEVEL GAUGE IS BELOW THE LOW POINT OF THE SCALE.

MADE IN MEXICO
WEG TRANSFORMADORES MEXICO S.A. DE C.V.
HUEHUETOCÁ, EDO. DE MEXICO

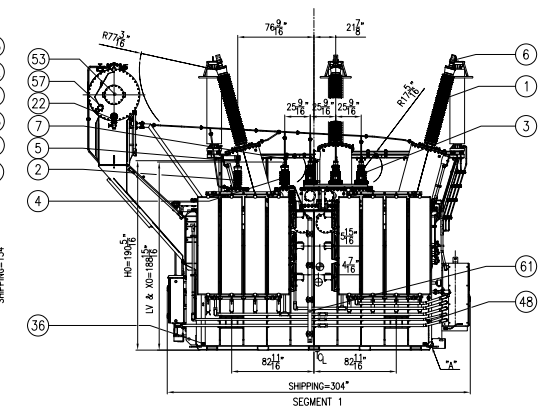
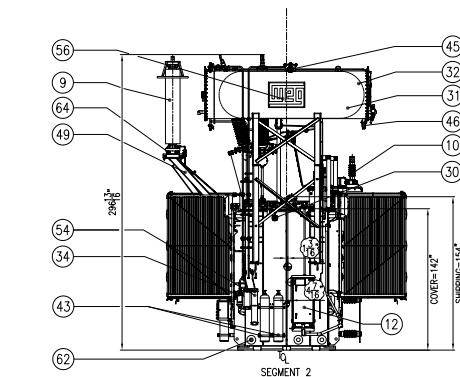
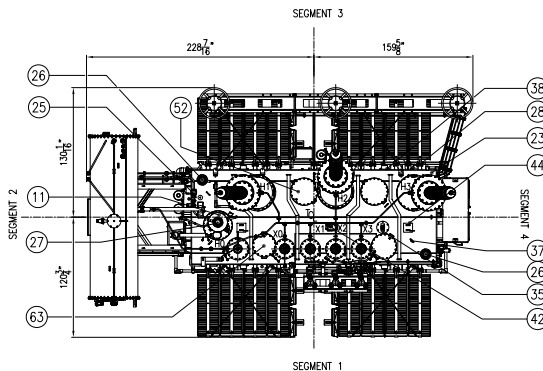
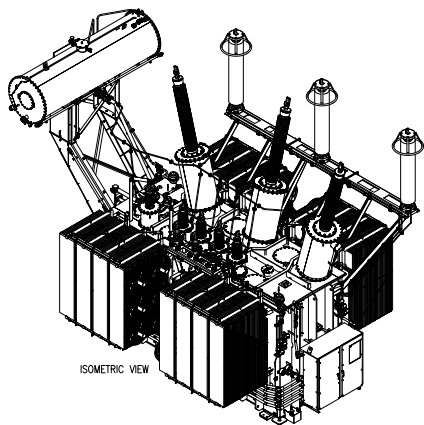
15 3/8" [390mm]
15 3/4" [400mm]

NOTES:

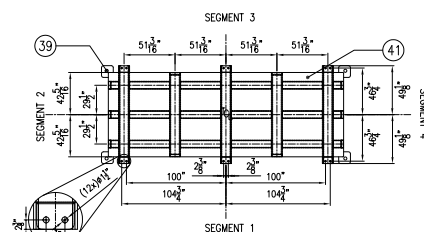
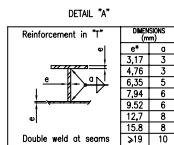
- 1 - MATERIAL STAINLESS STEEL AISI 304 THICKNESS 0.8 mm, LOW RELIEF ENGRAVED IN BLACK COLOR.

AS BUILT

CUSTOMER:			
PROJECT:			
POWER:	72/96/120 MVA	TEMPERATURE RISE:	55 °C
HIGH VOLTAGE:	230 kV	LOW VOLTAGE:	34.5 kV
STEPS TAP CHANGER HV:	±16 x 0.625 %	ORDER NUMBER:	150-2100109-2
1	X	15999677	PLACA ID TR AISI 304 550X400X0.8mm
PESO BRUTO / GROSS WEIGHT	1.0000	PESO NETO / NET WEIGHT	1.0000
500002053124	AS BUILT	SALASQUINO	NCARDENAS NCARDENAS
500001923552	CERTIFIED DRAWING	DCAMARGO	NCARDENAS NCARDENAS
No MODIFICACION / MODIFICATION	LOC	EJECUTADO / EXECUTED	VERIFICADO / CHECKED
ECM	LOC	LIBERADO / RELEASED	FECHA / DATE
EJECUTADO / EXECUTED	SALASQUINO	PLACA ID TR AISI 304 550X400X0.8mm	10008546519
VERIF. / CHECKED	DCAMARGO	TRANSF NAMEPLATE AISI 304 550X400X0.8mm	000 / 03
LIBER. / RELEASED	DCAMARGO	FECHA LIB. / REL. DT	07.05.2021
FECHA LIB. / REL. DT	07.05.2021	WTD	HUEHUETOCÁ
INGENIERÍA DEL PRODUCTO		HOJA / SHEET 1 / 1	

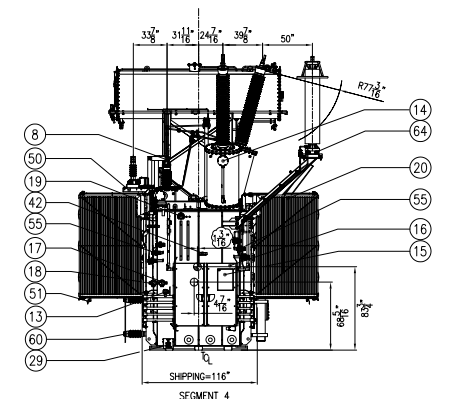
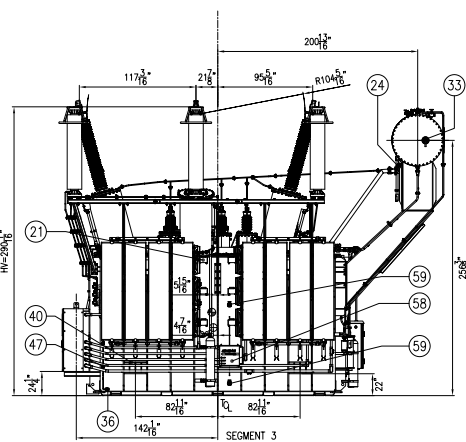


- NOTES:
1. THIS DRAWING REPRESENTS THE APPROXIMATE POSITION OF THE ACCESSORIES.
 2. THE FINAL COAT WILL BE GRAY ANSI 70 COLOR.
 3. GENERAL DIMENSIONS TOLERANCES:
 - * $\pm 1/8"$ FOR TANK DIMENSIONS.
 - * $\pm 1/8"$ FOR BUSHING HEIGHT.
 - * $\pm 3/8"$ FOR THE TRANSFORMER.
 4. SHIPPING DIMENSIONS TOLERANCES:
 - * $\pm 3/8"$ FOR THE TRANSFORMER.
 5. THE TRANSFORMER COVER HAS A NON-SKID COATING.



- TRANSFORMER CENTER LINE
- G.C. OPERATION
- G.C. SHIPPING

AS BUILT



APPROXIMATE WEIGHTS (Lb)	
CORE AND COILS	140 046
TANK AND FITTINGS	99 254
INSULATING LIQUID	83 070
TOTAL WEIGHT	322 370
UNLIFTING WEIGHT (HEAVIEST PIECE)	140 046
SHIPPING WEIGHT	189 420
WITH OIL: _____	WITHOUT OIL: X

CUSTOMER: _____	
PROJECT: _____	
POWER: 72/96/120 MVA	TEMPERATURE RISE: 55 °C
HIGH VOLTAGE: 230 kV	LOW VOLTAGE: 34.5 kV
STEPS TAP CHANGER HV: $\pm 16 \times 0.625 \%$	ORDER NUMBER: 150-2100109-2
SERIAL NUMBER: 1059894558	

ITEM	QTY	DESCRIPTION	MANUFACTURER	FIELD ASSEMBLY
64	18	HV & LV SURGE ARRESTER INSULATING BASE	ABB	X
63	2	MANHOLE #15"	WEG	

ITEM	QTY	DESCRIPTION	MANUFACTURER	FIELD ASSEMBLY
62	6	FIXATION FOR RAIL SHIPPING	WEG	
61	1	GROUNDING XO / BUS COPPER BAR 4"x4"	WEG	X
60	5	INSULATOR / CPB-200-II	LAPP	X
59	2	VALVE #1" FOR GAS ANALYZER	UNITED BRASS	X
58	1	GAS ANALYZER / TM000-0307954 SERVOIN	QUALITROL	X
57	1	MANO-VACUUM GAUGE / 148-008-01 CS-58835	QUALITROL	X
56	1	WEG LOGO PLATE	WEG	X
55	6	SURGE COUNTER FOR HV & LV / THS440000	ABB	X
54	2	DEHYDRATING BREATHER FOR MAIN TANK / 4140 / 4130-4	ABB	X
53	1	MANHOLE #16" INSPECTION CONSERVATOR TANK	WEG	X
52	2	MANHOLE #24"	WEG	
51	16	DRAIN VALVE FOR RADIAOR #3/4"	PARKER	X
50	1	LOW VOLTAGE SURGE ARRESTERS SUPPORT	WEG	X
49	1	HIGH VOLTAGE SURGE ARRESTERS SUPPORT	WEG	X
48	1	GROUNDING LV SURGE ARRESTER / BUS COPPER CABLE	WEG	X
47	1	GROUNDING HV SURGE ARRESTER / BUS COPPER BAR 2"x4"	WEG	X
46	1	DRAIN VALVE #2" (GLOBE TYPE) CONSERVATOR TANK	UNITED BRASS	X
45	1	OIL FILLING VALVE #2" (GLOBE TYPE) CONSERVATOR TANK	UNITED BRASS	X
44	2	FALL PROTECTION	WEG	
43	2	DRY AIR CYLINDER (ONLY FOR SHIPPING)	WEG	
42	2	IMPACT RECORDER (WEG PROPERTY)	MESSKO	
41	1	SKID BASE	WEG	
40	4	JACKING PAD	WEG	
39	4	PULLING EYE	WEG	
38	4	TRANSFORMER LIFTING LUG	WEG	
37	4	COVER LIFTING LUG	WEG	
36	2	GROUNDING PAD NEMA 2	WEG	
35	2	EXTERNAL CORE AND FRAME GROUND	CELECO	
34	1	DEHYDRATING BREATHER FOR LTC / DB100	MESSKO	X
33	1	LIQUID LEVEL INDICATOR FOR LTC / LLG032-0022575	QUALITROL	X
32	1	RUBBER BAG (#1200 mm x 3940 mm)	MULTIHANE	X
31	1	CONSERVATOR TANK	WEG	X
30	1	OIL FILLING VALVE #2" (GLOBE TYPE) MAIN TANK	UNITED BRASS	X
29	1	DRAIN VALVE #2" WITH SAMPLING PLUG 3/8" (GLOBE TYPE)	UNITED BRASS	X
28	32	RADIATOR VALVE #3" (BUTTERFLY TYPE) / TOP AND BOTTOM	WAT	
27	1	PRESSURE RELIEF DEVICE FOR LTC / LPR000-00396316	QUALITROL	X
26	2	PRESSURE RELIEF DEVICE FOR MAIN TANK / LPR000-00255810	QUALITROL	X
25	1	GAS RELAY FOR LTC / US0003527	ABB	X
24	1	GAS DETECTOR BUCHHOLZ RELAY / EB078L26N	CEIASPE	X
23	1	TRANSFORMER COVER WELDED	WEG	
22	1	LIQUID LEVEL INDICATOR FOR MAIN TANK / LLG042-00400617	QUALITROL	X
21	24	FANS / F526-A10389-10	KRENZ	X
20	16	INDICATORS / HOT DIPPED GALVANIZED	WENK	X
19	1	THERMAL PLATE / 0872 WMLM-V	ORTO	
18	1	WINDING TEMPERATURE INDICATOR / TR6000B-00294036	QUALITROL	
17	1	OIL TEMPERATURE INDICATOR / TR6000B-00296740	QUALITROL	
16	1	CONTROL BOX	WEG	
15	1	NAMEPLATE (STAINLESS STEEL)	WEG	
14	8	CT'S JUNCTION BOX / 1929 T APG / 1927-T APG	ORTO	X
13	1	SUDDEN PRESSURE RELAY / 900-009-03 CS-47901	QUALITROL	X
12	1	MOTOR DRIVE FOR LTC / BUL 2	ABB	
11	1	LOAD TAP CHANGER / VUCORN - 380 / 450 C	ABB	
10	3	LOW VOLTAGE SURGE ARRESTERS / 00275A022A	ABB	X
9	3	HIGH VOLTAGE SURGE ARRESTER / 0172CV245A	ABB	X
8	3	LV BUSHING CONNECTOR / PM60C12-1-422-W1-E	DELTA	X
7	1	LV BUSHING CONNECTOR / PM60C12-1-422-W1-E	DELTA	X
6	3	HV BUSHING CONNECTOR / EPM59C12-1-4M-E	DELTA	X
5	1	HV BUSHING CONNECTOR / PM59C12-1-4M-E	DELTA	X
4	1	HV BUSHING / B-88833-9-70 / 34.5 kV / 200 kV BL / 3000 Amp	PCORE	X
3	3	LV BUSHING / B-88833-9-70 / 34.5 kV / 200 kV BL / 3000 Amp	PCORE	X
2	1	HV BUSHING / B-88833-9-70 / 34.5 kV / 200 kV BL / 1200 Amp	PCORE	X
1	3	HV BUSHING / P008000000PCS / 230kV / 900 kV BL / 800 Amp	PCORE	X