REV.	DESCRIPTION
1	-ITEM 37 & 38 MODIFIED -ITEM 37a & 38a ADDED
2	

Drwn : Andres Ortiz	
Chkd :	
Appd :	
Sheet : 1 of 1	
Rev. : 1	

TRANSFORMER'S OUTLINE

Projection :	Bold lines
Scale : 1 - 20	Dimensions in : Inches
Sht : 80	Drawing No. G19840ID801

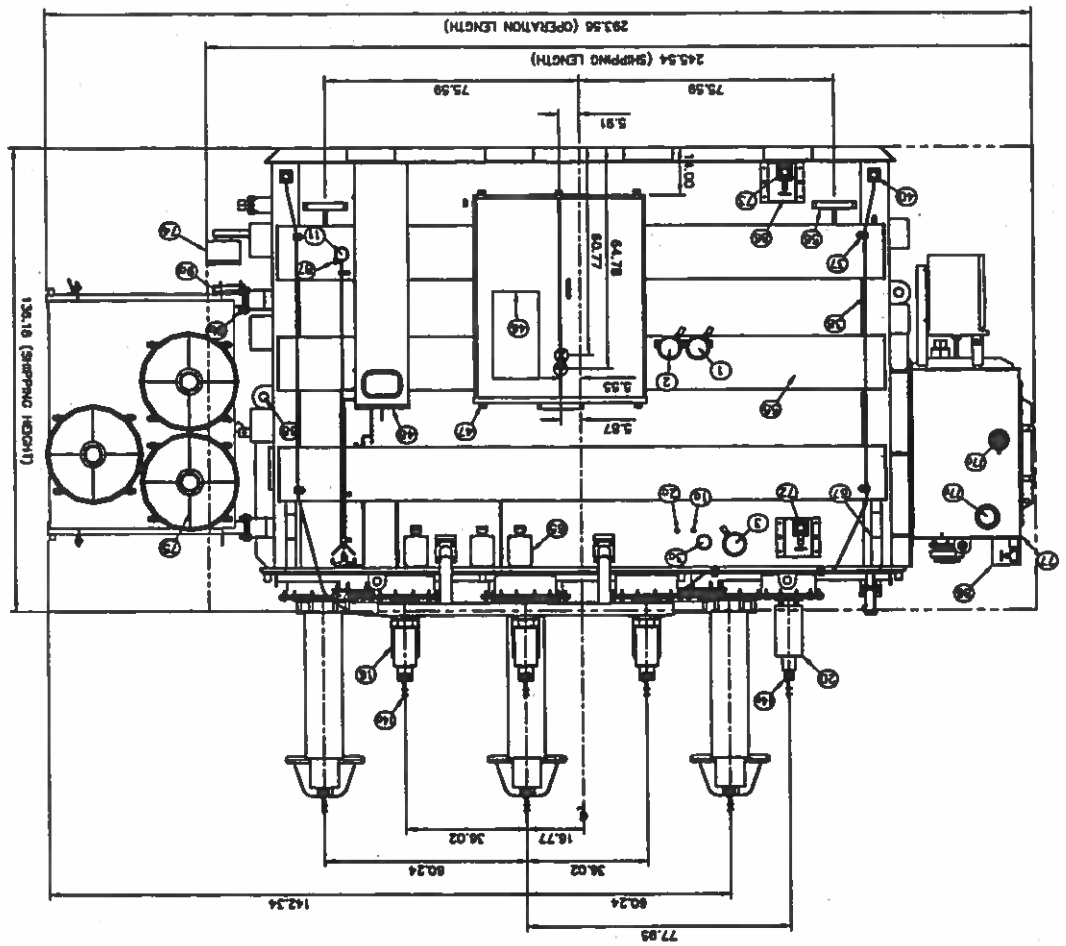
SUBSTATION TRANSFORMER
20/26/33/3 (22.4/29.8/37.3 @ 65°C) MVA,
THREE PHASE, 50/60Hz, 3300 VAC, 60 HERTZ
OHAN/OHAF/OHAF
13.8 KV Δ-34.5/24.9 kV Y

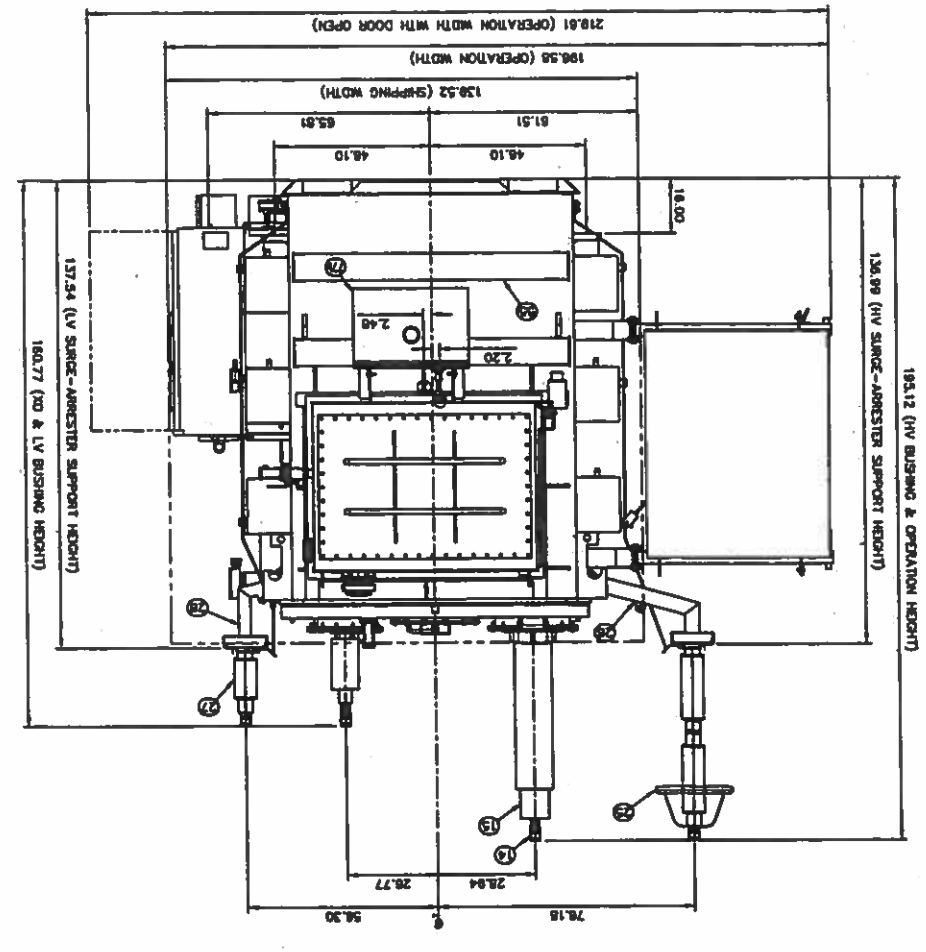
TOLERANCES	
Centerline distance of holes for bolting	±.250
Centerline distance of machined surfaces	±.500
Distance between machined surfaces	-.625
Centerline distance of machined bushings	+1.000 -.625
Distance between centerline of holes	±.250
Outlet of centrifugal to centerline of HV & LV bushings	±.250
HV & LV bushings centerline	±.250
Distance between centerline of holes	±.250
Bushings & surge arrester centerline	±.500
Surge arrester height (distance to floor)	±.500
Center tank distance to short side	±.500
Center tank distance to large side	±.500
Conservator height	±.500
Mounting center line	±.125
Bracing base center line	±.125
Pattern distance	+.062 -.187
Dimensions 0"-118"	±1.000
118"-197"	±1.500
197" & Above	±2.000

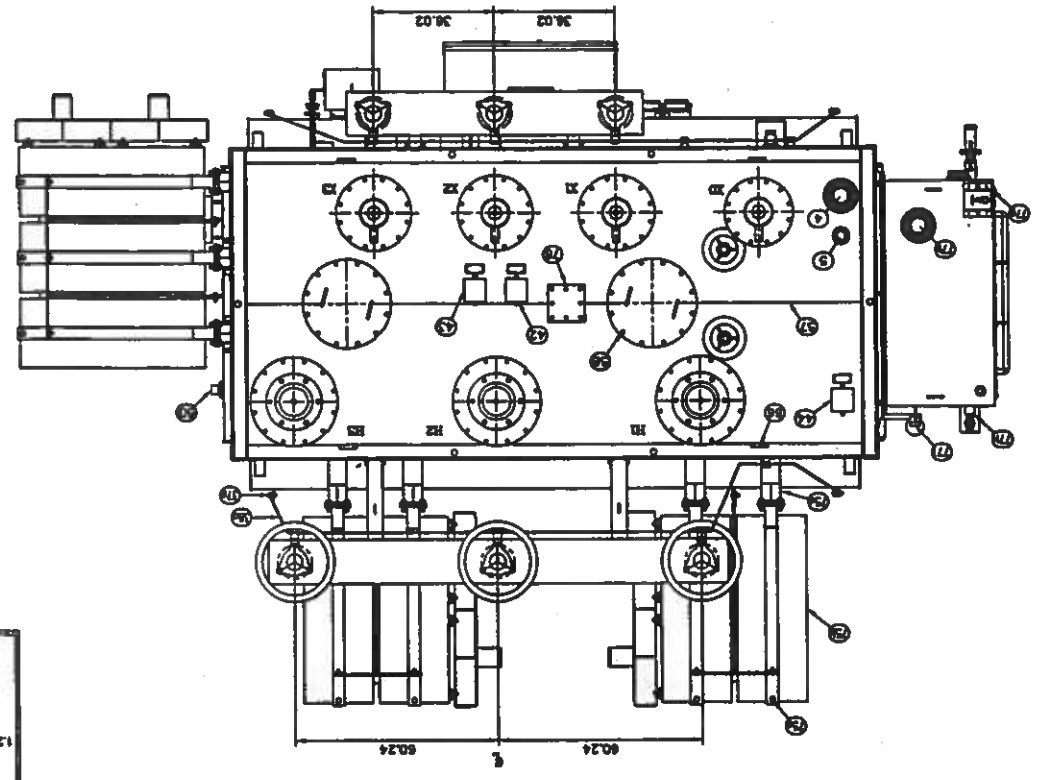
NOTES :
a) ITEMS REMOVE FOR SHIPMENT ARE MARKED WITH (*).
b) NUMBERING IS ACCORDING WITH GE PROLEC STD. LIST

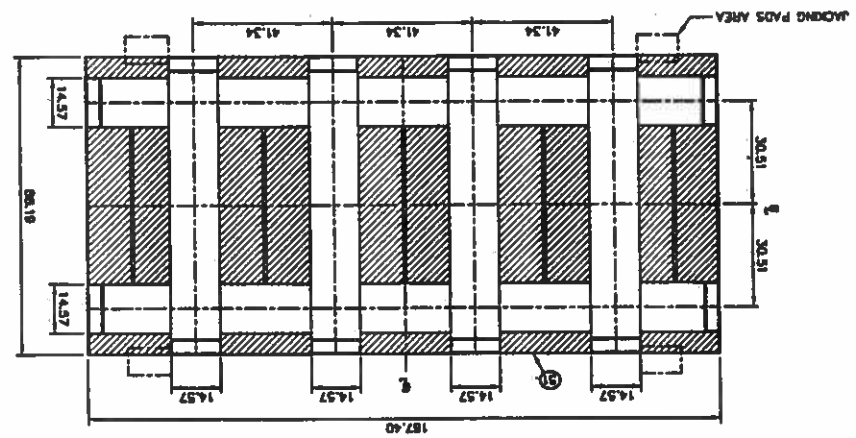
OPERATION CENTER OF GRAVITY	
SHIPPING CENTER OF GRAVITY	

APPROXIMATE WEIGHTS (POUNDS)	
CORE AND COILS	83360
TANK AND FITTINGS	43665
MAIN TANK LIQUID (6232 GALS)	48800
COOLING EQUIPMENT LIQUID (322 GALS)	2420
LTC TANK LIQUID (343 GALS)	2580
TOTAL WEIGHT	157815
UNTANKING WEIGHT (HEAVIEST PIECE)	82360
SHIPPING WEIGHT (WITHOUT OIL)	83636

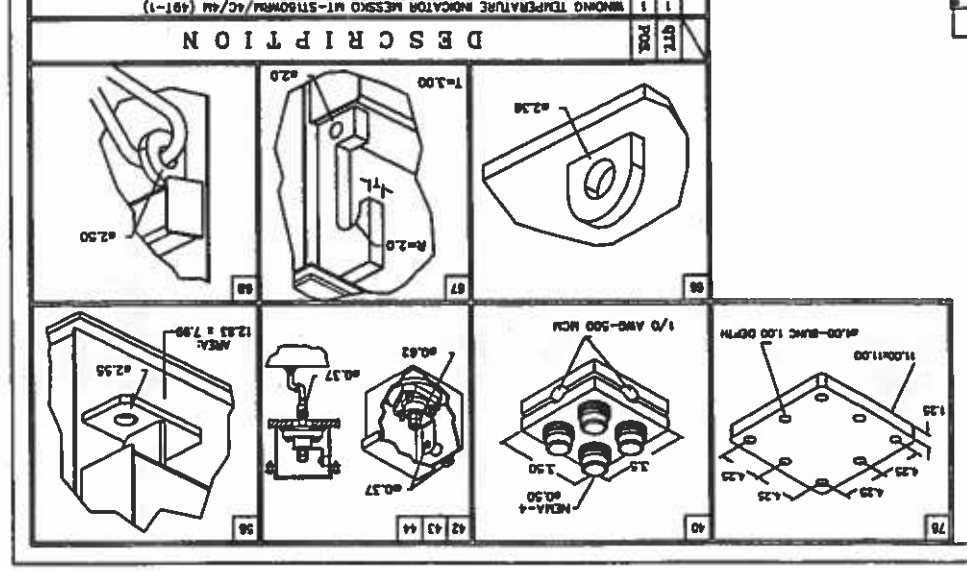








ITEM	QTY.	DESCRIPTION
1	1	THERMO TEMPERATURE INDICATOR WESSCO WI-5T160MW/4C/4W (49T-1)
2	1	LIQUID TEMPERATURE INDICATOR WESSCO WI-5T160MW/3C/4W (29O-1)
2A	1	THERMO-WELL FOR WINDING TEMPERATURE INDICATOR
3	1	WAGNETIC LIQUID LEVEL GAUGE WESSCO MTO-ST160MW/ZU/4A (71O-1)
3A	1	WAGNETIC LIQUID LEVEL GAUGE FOR BARCAP QUALITROL 035-022-01 CS-31329 (71O-2)
4	1	RAPID PRESSURE RELAY QUALITROL 910-014-03 (83PR-1)
5	1	PRESSURE RELIEF DEVICE QUALITROL 1PR000-000083A9A (83PR-1)
6	1	THERMAN S2 SENSOR
7	1	PRESSURE-VACUUM GAUGE FOR SHIPPING
11	1	LV BUSHING CONNECTOR ANDERSON HDSF-14-1-3/8-12TP
12	3	MEDIUM VOLTAGE BUSHING 12IM138012-AAA-SEEA88
13	3	HIGH VOLTAGE BUSHING A88 12IM138012-AAA-SEEA88
14	3	HV BUSHING CONNECTOR ANDERSON HDSF-14-1-3/8-12TP
14A	3	MULTIPAL BUSHING TO CONNECTOR ANDERSON HDSF-14-1-3/8-12TP
16	3	LOW VOLTAGE BUSHING LAPP 8693S3-40-70
18	3	NEUTRAL BUSHING TO LAPP 8693S3-40-70
23	3	HV SURGE-ARRESTERS A88 Q105A088 TYPE XPS
24	3	HV SURGE-ARRESTER SUPPORT
27	3	LV SURGE-ARRESTERS A88 QQ305A24A TYPE XPS
28	3	LV SURGE-ARRESTER SUPPORT
37	6	LV GROUND CABLE CONNECTOR
37A	3	H.V. GROUND CABLE CONNECTOR
38	1	L.V. GROUND CABLE COPPER
38A	1	H.V. GROUND CABLE COPPER
40	2	GROUND PAD
43	1	CORE GROUND BUSHING TERMINAL BOX (MAIN UNIT)
43	1	TANK GROUND BUSHING BOX
44	1	CORE GROUND BUSHING BOX (REACTOR UNIT)
46	1	NAMEPLATE
47	1	CONTROL CABINET
48	1	AUTOMATIC WITHDRAW EQUIPMENT FOR OPERATION (83P-1)
50	1	DE-ENERGIZED TAP-CHANGER PROLEC-GTO 04727
51	1	BASE SKIDS WITH VENING PORTS (4 DIRECTION)
52	11	TANK BRACES
63	1	CT TERMINAL BOX
66	1	LIFTING EYE COVER ONLY
67	4	LIFTING LUGS COMPLETELY ASSEMBLED TRANSFORMER
68	4	SHIPPING LUGS
71	1	TOP FILTER PRESS VALVE (2.00 ø) GLOBE-TYPE
72	1	MAIN TANK DRAIN VALVE (2.00 ø) GLOBE-TYPE WITH SAMPLING DEVICE & PLUG
74	1	IMPACT RECORDER FOR SHIPPING
75	11	FAN MOTOR KDK12 FZ60-A6676
76	7	RADIATORS SUPPORTS AND BRACES
77	14	RADIATOR VENT AND DRAIN PLUG (1.00 ø)
78	1	RADIATOR VALVE FLAPPER-TYPE (5.00 ø)
79	1	LTC MAGNETIC LIQUID LEVEL GAUGE (710-2)
80	1	OIL-LOAD TAP-CHANGER WE MVV-B-1500
81	1	LTC RAPID PRESSURE RELAY QUALITROL 900-014-03 (83PR-2)
82	1	LTC PRESSURE RELIEF DEVICE (83PR-4)
83	1	LTC TOP FILTER PRESS VALVE (1.00 ø) GLOBE-TYPE
84	1	LTC SILICA-GEL BREATHER
85	1	LTC DRAIN VALVE (1" ø) GLOBE-TYPE
86	1	LTC MOTOR DRIVE CABINET
87	1	ITEMEX POLE MOUNTING PLATE
88	4	PROTECTION BOX FOR VALVE
89	1	SAMPLING VALVE



CERTIFIED AS BUILT
PROLEC GE
ENGINEERING DEPARTMENT

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