



TRANSFORMER WEIGHT & VOLUME		
CORE AND WINDING	kg	2260
TANK AND FITTING	kg	985
COOLING LIQUID VOLUME	L	930
COOLING LIQUID WEIGHT	kg	902
TOTAL TX WEIGHT	kg	4147
ADDITIONS TO THE TRANSFORMER WEIGHT		
HV UNIT	Kg	385

1250kVA ELECTRICAL RATINGS					
No Load Voltage Ratio at Normal Tap	HV Tappings	Vector Group	Frequency	Full-Load Current at Normal Tap	
				HV Side	LV Side
11000 / 433V	+5.0 to -5.0% in 2.5% INCREMENTS	Dyn11	50Hz	65.6A	1666.6A
Design Impedance at Normal Tap	No Load Losses at rated Voltage & Frequency	Full Load Losses at rated Current & at 75°C Temp.	Temp. Rise above Ambient 40°C		
			in Oil by Therm.		in Wdg. by Res.
5.0%	855W	9500W	60°C		65°C
GENERAL NOTES					
1 ALL DIMENSIONS ARE IN 'mm'.					
2 ALL DIMENSIONS/WEIGHTS ARE SUBJECT TO ± 10% TOLERANCE.					
3 ELECTRONIC SCALE - 1:1 (ONLY WRITTEN DIMENSIONS TO BE FOLLOWED).					
4 TOLERANCE ON IMPEDANCE PER IEC:60076.					
5 PAINT SHADE.: 632 As PER BS:381C (SEMI GLOSS) TO ISO12944 - MIN C4 SPEC.					
6 O/ALL DIM IS SUBJECT TO EQUIPMENT DOOR OPENING DISTANCES.					
7					
8					
9					

19	1	MAGNETIC OIL GAUGE (with 15°) COLD OIL LEVEL MARK
18	1	RATING & DIAGRAM PLATE (SS)
17	1	MEDIUM MARSHALLING BOX
16	1	WINDING TEMPERATURE INDICATOR - AKM35-2-01-12-X-2.0
15	1	OIL TEMPERATURE INDICATOR - AKM34-2-01-12-X-2.0
14	2	DETACHABLE RADIATORS with AIR-RELEASE & DRAIN PLUG (520W x 1200C x 7S x 40P)
13	1	WTI CT BUSHING TERMINALS ENCLOSED IN BOX
12	1	DRAIN VALVE (25NB) with MALE PLUG
11	4	JACKING PADS
10	2	TRANSFORMER LIFTING LUGS
9	1	OFF-CIRCUIT TAP SWITCH (5-Position & Padlockable)
8	2	THERMOMETER POCKET (3/4" BSP MALE THREAD)
7	1	OIL FILLING PIPE WITH FLANGED COVER
6	1	TOP COVER with LIFTING LUGS (x2)
5	1	AIR VENT PIPE (3/4") FOR DEHYDRANT BREATHER
4	2	EARTHING TERMINAL (FLAT TYPE suitable for M12 Bolt)
3	1	TRANSFORMER BASE (SKID TYPE) c/w HAULAGE HOLES & BRACING
2	1	LV CABLE BOX - 1.1kV, 4-POLE, AIR INSULATION, (FACING-'F', BS:2562) SUITABLE FOR 3 x 1c CABLES PER PHASE & N - MAX. 630mm.sq
1	1	HV CABLE BOX - 12kV, 3-POLE, HEAT-SHRINK INSULATION, (FACING-'E' BS:2562) SUITABLE FOR 1 x 3c CABLE - MAX. 185mm.sq
ITEM	QTY	DESCRIPTION
PARTS LIST		

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- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL THE RELEVANT ARCHITECTURAL, STRUCTURAL AND RELATED SERVICES DRAWINGS.
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Rev	Date	Description

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Project Title
SUB-STATION CSB
TRANSFORMER REPLACEMENT

Drawing Title
ROYAL FREE HOSPITAL
HV/LV INFRASTRUCTURE
TRANSFORMER GENERAL ARRANGMENT
(PROPOSED)

Drawn	Date	Checked	Date	Approved	Date
LD	28.02.2023	L.D.	31.3.2023	R.W	31.3.2023
Project No.		Drawing Scale			
P9271		N.T.S. @ A1			
Drawing No.		Rev.			
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