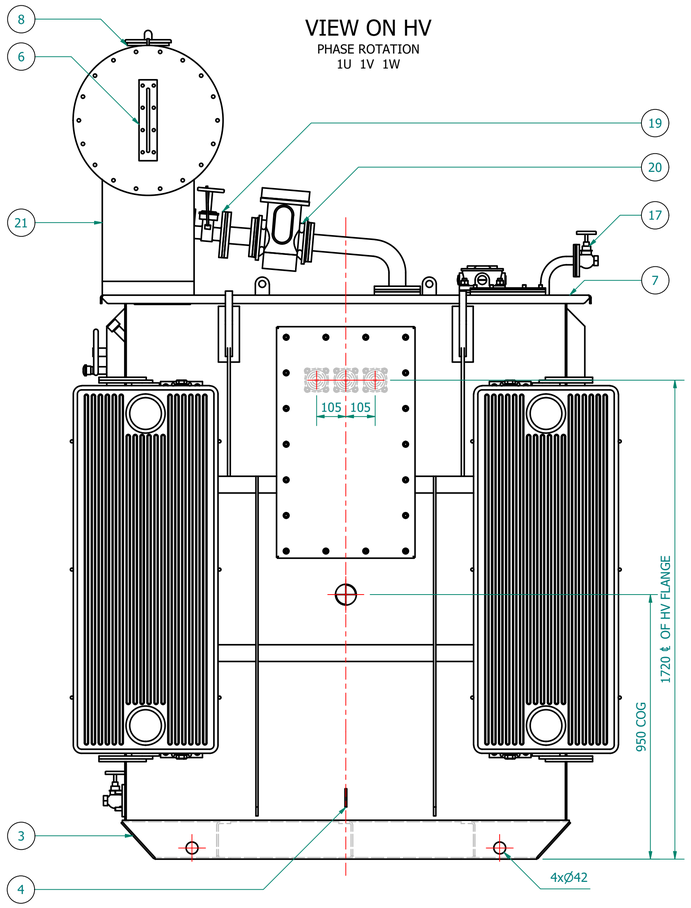
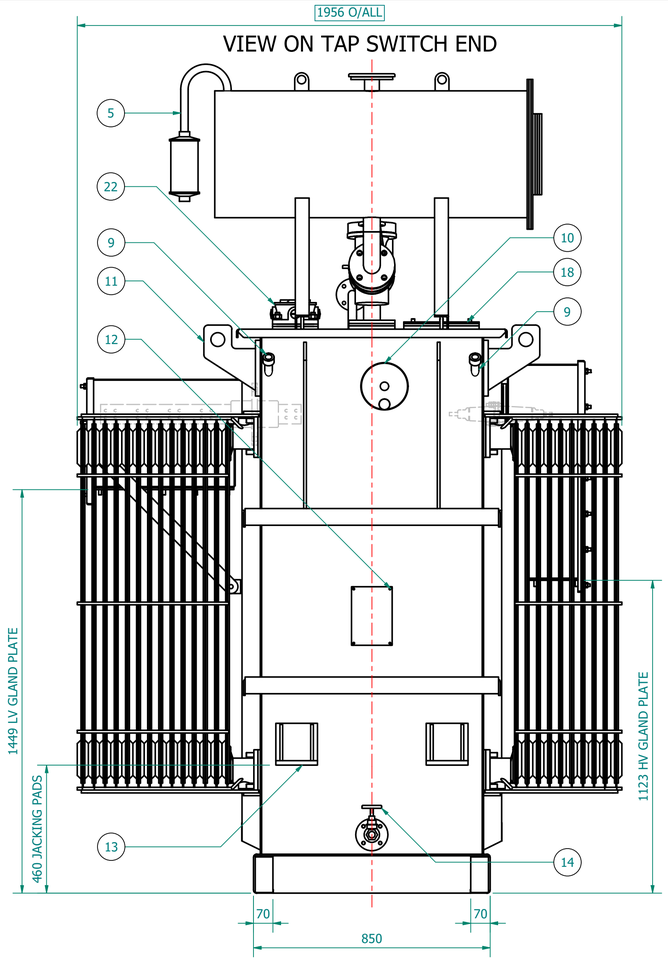
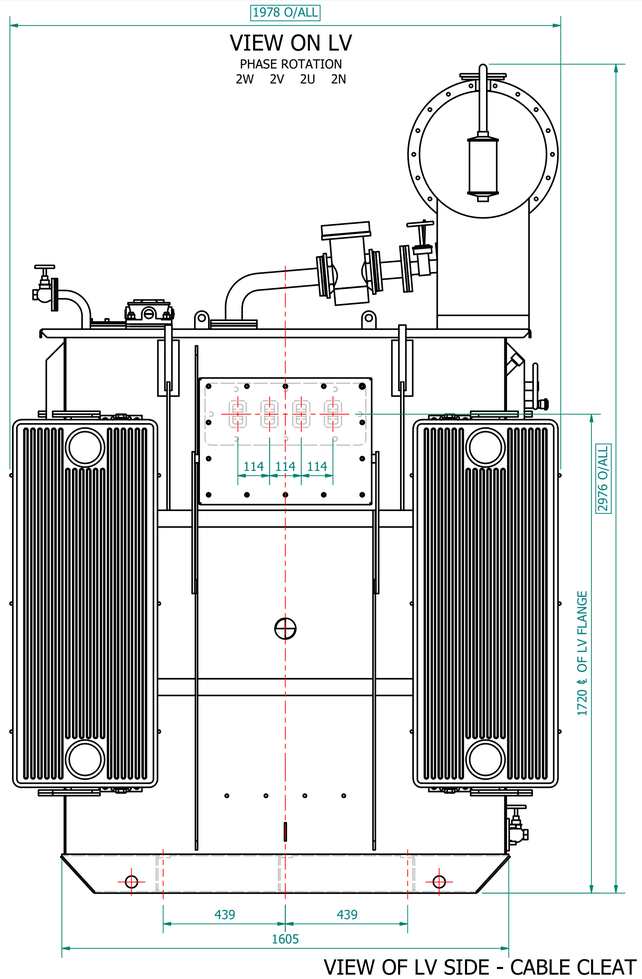
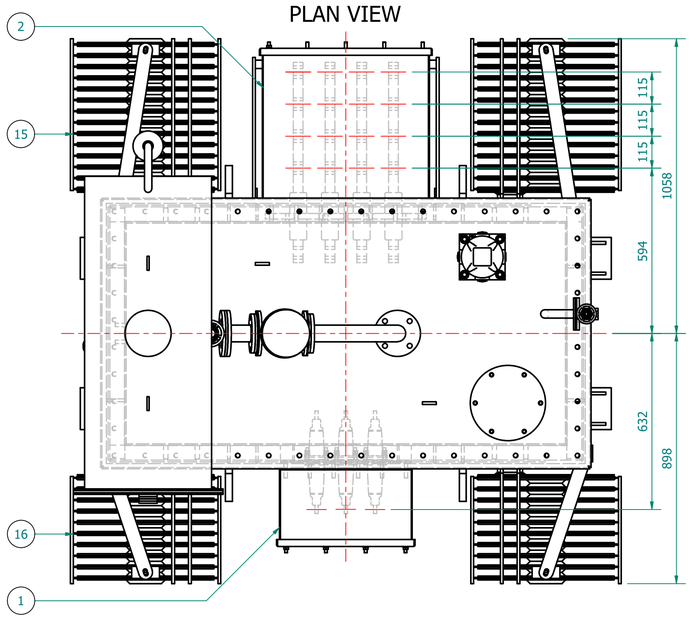




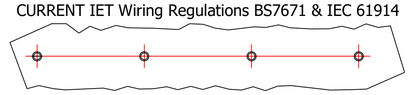


PLAN VIEW



VIEW OF LV SIDE - CABLE CLEAT STUDS

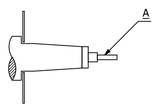
CABLES MUST BE SUPPORTED IN ACCORDANCE WITH CURRENT IET Wiring Regulations BS7671 & IEC 61914



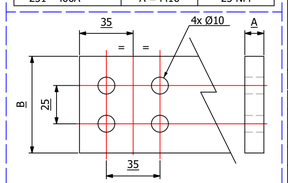
4x M12 x 30 @ 140mm PITCH ~430mm FROM THE GROUND

TRANSFORMER WEIGHT & VOLUME		
CORE AND WINDING	kg	4040
TANK AND FITTING	kg	1900
COOLING LIQUID VOLUME	L	1790
COOLING LIQUID WEIGHT	kg	1460
TOTAL TX WEIGHT	kg	7400

WILSON T² ECOTRANS



HV TERMINAL DETAILS (01)		
0 - 250A	A = M12	20 NM
251 - 400A	A = M16	25 NM



LV TERMINAL DETAILS (02)		
1700A	A = 12.5 mm	B = 63 mm
2500A	A = 20 mm	B = 63 mm
3150A	A = 35 mm	B = 63 mm
4000A	A = 35 mm	B = 70 mm

ESSENTIAL LABELS

ITEM 10 — TAP CHANGER WARNING LABEL

ITEM 6 — COLD COOLANT LEVEL

ITEM 2 — LV WARNING LABEL

ITEM 1 — HV WARNING LABEL

3000kVA	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	157.459A	4000.117A
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.	
6.0%	1886W	21961W	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 C4H SPEC.
6	
7	
8	
9	

ITEM	QTY	DESCRIPTION
22	1	WTI CT BUSHING TERMINALS ENCLOSED IN BOX
21	1	DETACHABLE CONSERVATOR WITH OIL LEVEL INDICATOR
20	1	BUCHHOLZ RELAY EE2 (WITH ALARM & TRIP CONTACT)
19	1	SHUT OFF VALVE FOR CONSERVATOR
18	1	PROVISION FOR PRESSURE RELIEF DEVICE
17	1	OIL FILLING VALVE WITH ONE SIDE FLANGED & PLUG
16	2	DETACHABLE RADIATORS with AIR-RELEASE & DRAIN PLUG (520W x 1200C x 10S x 40P)
15	2	DETACHABLE RADIATORS with AIR-RELEASE & DRAIN PLUG (520W x 1200C x 14S x 40P)
14	1	DRAIN VALVE (25NB) with MALE PLUG
13	4	JACKING PADS
12	1	RATING & DIAGRAM PLATE (SS)
11	4	TRANSFORMER LIFTING LUGS
10	1	OFF-CIRCUIT TAP SWITCH (5-Position & Padlockable)
9	2	THERMOMETER POCKET (3/4" BSP MALE THREAD)
8	1	OIL FILLING PIPE WITH FLANGED COVER
7	1	TOP COVER with LIFTING LUGS (x2)
6	1	OIL LEVEL GAUGE (with 15°) COLD OIL LEVEL MARK
5	1	ENVIRO GEL BREATHER TYPE R1
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 4 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

PARTS LIST

IF IN DOUBT - **ASK**. REMOVE ALL SHARP EDGES. **DO NOT** SCALE. DRAWING **NOT TO SCALE**

BASED ON:

LAST DEFINITION				
REV	REV BY	VERIFIED	APPROVED	DESCRIPTION

LAST REVISION		
REVISION DESCRIPTION	REV	DATE
ORIGINAL	00	22-AUG-2021
REV. BY:	M. STOTSJUK	
VERIFIED:		
APPROVED:		

PROJECT	
CUSTOMER	
S.O. NUMBER	
P.O. NUMBER	
W.O. NUMBER	

DRAWING TITLE

GENERAL ARRANGEMENT DRAWING FOR
3000kVA WILSON T2 ECOTRANS
11000/433V, 50Hz, Dyn11, ONAN/KNAN
AL WOUND DISTRIBUTION TRANSFORMER

WILSON POWER SOLUTIONS

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Fax:+44 (0) 113 277 5124
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DRAWN BY:	M. STOTSJUK	DATE:	22/08/2021	DRG NO:	**WPS-T2-3000-AL-GA**

WPOF02 REV 0 25-NOV-14