

	PRELIMINARY E4 AN	IORPHO	OUS TRANSFORMER DATA SHEET
S.No.	Description	Units	Particulars
1	Project Name		-
2	Quote Number		-
3	Manufacturer		Wilson Power Solutions Ltd
4	Applicable Standard		IEC 60076
5	General Arrangement Dwg		-
6	Transformer Rating	kVA	2500
7	Rated High Voltage @ No Load	Volts	11000
8	Rated Low Voltage @ No Load	Volts	415
9	Minimum Insulation class HV LI	kV	75
10	Minimum Insulation class HV AC	kV	28
11 12	Minimum Insulation class LV LI	kV kV	3
12 13	Minimum Insulation class LV AC Line Current LV / HV	A	3 3478.12 / 131.22
15 14	Insulating Fluid	A	5478.12 / 151.22 Mineral Oil
15	Fans		No
16	Pumps		No
17	Type of Cooling		ONAN
L8	Number of Phases		3
19	Frequency	Hz	50
20	Vector Group		Dyn11
	Impedance Voltage (Z)	0.4	
21	Subjected to +/- IEC tolerence limits	%	6.00
22	Symmetrical Short Circuit Current in LV	kA	53.24 (Approx)
23	Symmetrical Short Circuit Current in HV Rated Tap	kA	2.02 (Approx)
24	Core Material		Amorphous
25	No Load Losses	W	1000
26	Load Losses @ 75°C	W	15000
27	Losses as per EU Regulation No. 548/2014		Exceeds Tier-2 Requirement
28	Resistance	%	0.60 (Approx)
29	Reactance	%	5.97 (Approx)
30	Positive sequence resistance at principal tap	P. U.	0.0060 (Approx)
	Positive sequence reactance at principal		
31	tap	P. U.	0.0597 (Approx)
32	Positive sequence reactance at minimum tap	P. U.	0.0572 (Approx)
33	Positive sequence reactance at maximum	P. U.	0.0622 (Approx)
34	tap Zero sequence resistance	P. U.	0.0048 (Approx)
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35	Zero sequence reactance	P. U.	0.0480 (Approx)
36	Regulation type		DETC
37	Tapping on HV	%	+7.5,+5.0, +2.5, 0.0, -2.5, -5
88	Design Ambient Temperature	°C	40
19	Temp Rise of Top Oil	°C	60
10	Temp Rise of Winding	°С	65
41	Altitude	m	<1000
12	Pollution class		C4H
13	HV Conductor Material		Aluminium
14	LV Conductor Material		Aluminium
45	Paint Finish Colour		Dark Admiralty Grey (BS 632 shade)



46	Transformer Type		Free Breathing, bolted cover, tank attached cooler bank			
40	ттануюттег туре					
47	HV termination type		Cable Box - 12kV, 3-Pole, (Facing-'E' BS:2562) with 1 take off per phase			
48	LV termination type		Cable box - 1.1kV, 4-Pole, (Facing-'F', BS:2562) with 4 take off per phase & Neutral			
49	Neutral		Located inside - cable box			
	Harmonis distortion	THD%	<5%			
	Trainions distortion		cessories			
	Dunin Makes Q Consuling Makes	T				
	Drain Valve & Sampling Valve	+	Yes			
	Radiator Valves Dehydrating Breather		No Yes			
	Pressure Relief Device		Yes			
55	Oil Temperature Indicator		No			
	Buchholz unit		Yes			
57	Winding Temperature Indicator		No			
58	Magnetic Liquid Level Indicator		No			
59	Conservator		Yes			
60	HV CTs		No			
	LV CTs		No			
62	Neutral CTs		No			
63	Disconnecting links HV		No			
64	Disconnecting links LV		No			
	Marshalling box		No			
66	Bund		No			
		Overal	Dimensions			
67	Length	mm	2250			
68	Width	mm	2130			
69	Height	mm	2810			
70	Oil	L	2405			
71	Weight	kg	9000			
		Testing	Requirement			
	Routine tests	0.5	Yes			
	Lighting Impulse		No			
	Chopped impules		No			
	Temperture rise test	1	No			
	Noise test	1	No			
	Dissolved gas analysis	1	No No			
	Frequancy response analysis CT checks	1	No No			
	Other information	1	No			
- 80	Comments: All losses, dimensions & weights are provisional only subject to confirmation following detailed					
	design.	e provisional only subject to commutation following accuracy				
	List of Pouting Tosts - Par IEC 60076 1					
	List of Routine Tests - Per IEC 60076-1:					
	1. Measurement of winding resistance (11.2)					
	 Measurement of voltage ratio and check of phase displacement (11.3) Measurement of short-circuit impedance and load loss (11.4) 					
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	 4. Measurement of no-load loss and current (11.5) 5. Dielectric routine tests (IEC 60076-3) 6. Tests on on-load tap-changers, where appropriate (11.7) 7. Leak testing with pressure for liquid-immersed transformers (tightness test) (11.8) 8. Tightness tests and pressure tests for tapks for gas filled transformers 					
	8. Tightness tests and pressure tests for tanks for gas-filled transformers					
	9. Check of the ratio and polarity of built-in current transformers					
	10.Check of core and frame insulation for liquid immersed transformers with core or frame Prepared By Checked & Approved By					
	Pavan Kiran		Imran Hussain			
	Wilson Power Solutions Limited, Westland Works, Westland Square, Leeds LS11 5SS					