

	PRELIMINARY e4 AMORP	HOUS T	RANSFORMER 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	2000		
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	Minimum Insulation class LV LI	kV			
12	Minimum Insulation class LV AC	kV	3		
13	Line Current LV / HV	А	2782.49 / 104.98		
14	Insulating Fluid		Mineral Oil		
15	Fans	-	No		
16	Pumps		No		
17	Type of Cooling		ONAN		
18	Number of Phases	1	3		
19	Frequency	Hz	50		
20	Vector Group		Dyn11		
	Impedance Voltage (Z)				
21	Subjected to +/- IEC tolerence limits	%	6		
22	Symmetrical Short Circuit Current in LV	kA	43.56		
23	Symmetrical Short Circuit Current in HV Rated Tap	kA	1.64		
24	Core Material		Amorphous		
25	No Load Losses	W	815		
26	Load Losses @ 75°C	W	11475		
27	Losses as per EU Regulation No. 548/2014		Exceeds Tier-2 Requirement		
28	Resistance	%	0.57		
20	Reactance	%	5.97		
		P. U.	0.0057		
30	Positive sequence resistance at principal tap	P. U.	0.0597		
31	Positive sequence reactance at principal tap				
32	Positive sequence reactance at minimum tap	P. U.	0.0572		
33	Positive sequence reactance at maximum tap	P. U.	0.0622		
34	Zero sequence resistance	P. U.	0.0046		
35	Zero sequence reactance	P. U.	0.0480		
36	Regulation type		DETC		
37	Tapping on HV	%	+7.5,+5.0, +2.5, 0.0, -2.5, -5		
38	Design Ambient Temperature	٥C	40		
39	Temp Rise of Top Oil	٥C	60		
40	Temp Rise of Winding	٥C	65		
41	Altitude	m	<1000		
42	Pollution class		C4H		
43	HV Conductor Material		Aluminium		
44	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		
47	HV termination type		Cable Box - 12kV, 3-Pole, (Facing-'E' BS:2562) with 1 take of per phase		

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				Cable box - 1.1kV, 4-Pole, (Facing-'F', BS:2562) with 4 ta				
48	LV termina	tion type		off per phase & Neutral				
49	Neutral			l	ocated inside - cable box			
50	Harmonis o	listortion	THD%		<5%			
			Accessor	ies				
51	51 Drain Valve & Sampling Valve Yes							
52	Radiator Va			No				
53	Dehydratin	g Breather		Yes				
54	Pressure Re	elief Device		No				
55	Oil Temper	ature Indicator		No				
56	Buchholz u	nit		No				
57	Winding Te	mperature Indicator		No				
58	Magnetic L	iquid Level Indicator		No				
59	Conservato	r		No				
60	HV CTs				No			
61	LV CTs				No			
62	Neutral CT	5			No			
63	Disconnect	ing links HV			No			
64	Disconnect	ing links LV			No			
65	Marshallin	g box	X		No			
66	Bund				No			
			Overall Dime	nsions				
67	Length		mm		2292			
68	Width		mm		2005			
69	Height		mm		1750			
70	Oil		L		1658			
71	Weight		kg		7400			
			Testing Requi	rement				
72	Routine tes	te			Yes			
72	Lighting Im				No			
73	Chopped ir	•		No				
75	Tempertur			NO				
76	Noise test			NO				
77	Dissolved g	as analysis		No				
78	-	response analysis		No				
79	CT checks			No				
80	Other infor	mation						
	Comments: All losses, dimensions & weights are provisional only subject to confirmation following detailed design. List of Routine Tests - Per IEC 60076-1: 1. Measurement of winding resistance (11.2) 2. Measurement of voltage ratio and check of phase displacement (11.3) 3. Measurement of short-circuit impedance and load loss (11.4) 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 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							
		Checked & Approved By						
	Prepared By Checked & Approved B Pavan Kiran Suresh V							