

	PRELIMINARY e4 AMO	RPHOUS	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	1000		
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	A	1391.25 / 52.49		
		 ^	Mineral Oil		
14	Insulating Fluid				
15	Fans		No		
16	Pumps Type of Cooling		No		
17	Type of Cooling		ONAN		
18	Number of Phases		3		
19	Frequency	Hz	50		
20	Vector Group		Dyn11		
24	Impedance Voltage (Z)	%	4.75		
21	Subjected to +/- IEC tolerence limits		22.42		
22	Symmetrical Short Circuit Current in LV	kA	28.19		
	Symmetrical Short Circuit Current in HV Rated	kA	1.06		
23	Тар				
24	Core Material		Amorphous		
25	No Load Losses	W	460		
26	Load Losses @ 75°C	W	5610		
27	Losses as per EU Regulation No. 548/2014		Exceeds Tier-2 Requirement		
28	Resistance	%	0.56		
29	Reactance	%	4.72		
30	Positive sequence resistance at principal tap	P. U.	0.0056		
31	Positive sequence reactance at principal tap	P. U.	0.0472		
32	Positive sequence reactance at minimum tap	P. U.	0.0447		
33	Positive sequence reactance at maximum tap	P. U.	0.0497		
34	Zero sequence resistance	P. U.	0.0045		
35	Zero sequence reactance	P. U.	0.0380		
36	Regulation type		DETC		
37	Tapping on HV	%	+7.5,+5.0, +2.5, 0.0, -2.5, -5		
38	Design Ambient Temperature	°C	40		
39	Temp Rise of Top Oil	°C	60		
40	Temp Rise of Winding	°C	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		
47	HV termination type		Cable Box - 12kV, 3-Pole, (Facing-'E' BS:2562) with 1 take off per phase		



49	LV termination type		Cable box - 1.1kV, 4-Pole, (Facing-'F', BS:2562) with 2 take off per phase & Neutral					
48	Noutral							
49	Neutral	TUD9/	Located inside - cable box					
50	Harmonis distortion	THD%		<5%				
		Access	ories					
51	Drain Valve & Sampling Valve		Yes					
52	Radiator Valves		No					
53	Dehydrating Breather		Yes					
54	Pressure Relief Device		No					
55	Oil Temperature Indicator		No					
56	Buchholz unit		No					
57	Winding Temperature Indicator		No					
58	Magnetic Liquid Level Indicator			No				
59	Conservator			No				
60	HV CTs			No				
61	LV CTs			No				
62	Neutral CTs			No				
63	Disconnecting links HV			No				
64	Disconnecting links LV			No				
65	Marshalling box		_	No				
66	Bund			No				
	Bulla			140				
		Overall Dir	nensions					
67	Length	mm		2010				
68	Width	mm		1605				
69	Height	mm		1750				
70	Oil	L		1106				
71	Weight	kg		4550				
	As a second second	Testing Rec	uirement					
	la vi v v	Testing Req	anement					
72	Routine tests			Yes				
73	Lighting Impulse		No					
74	Chopped impules		No					
75	Temperture rise test		No					
76	Noise test		No					
77	Dissolved gas analysis		No					
78	Frequancy response analysis		No					
79	CT checks		No					
80	Other information							
	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							
	Prepared By Checked & Approved By							
1	Pavan Kiran		Suresh V					