

	PRELIMINARY e4 AMOR	PHOUS T	FRANSFORMER DATA SHEET			
S.No.	Description	Units	Particulars			
1	Project Name	Onits	- Tarticulars			
2	Quote Number	+	_			
3	Manufacturer		- Wilson Power Solutions Ltd			
4		-				
	Applicable Standard	-	IEC 60076			
5	General Arrangement Dwg	1110	-			
6	Transformer Rating	kVA	315			
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	Accepted - Control			
12	Minimum Insulation class LV AC	kV	3			
13	Line Current LV / HV	Α	438.24 / 16.53			
14	Insulating Fluid	20	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	112	Dyn11			
20	Impedance Voltage (Z)		Dyll11			
21		%	4.75			
22	Subjected to +/- IEC tolerence limits	kA	0.11			
22	Symmetrical Short Circuit Current in LV	KA	9.11			
23	Symmetrical Short Circuit Current in HV Rated	kA	0.34			
	Тар					
24	Core Material		Amorphous			
25	No Load Losses	W	215			
26	Load Losses @ 75°C	W	1940			
27	Losses as per EU Regulation No. 548/2014		Exceeds Tier-2 Requirement			
28	Resistance	%	0.62			
29	Reactance	%	4.71			
30	Positive sequence resistance at principal tap	P. U.	0.0062			
31	Positive sequence reactance at principal tap	P. U.	0.0471			
32	Positive sequence reactance at minimum tap	P. U.	0.0446			
33	Positive sequence reactance at maximum tap	P. U.	0.0496			
34	Zero sequence resistance	P. U.	0.0050			
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	o _C	60			
		°C	65			
40	Temp Rise of Winding	<u> </u>				
41	Altitude	m	<1000			
42	Pollution class	-	C4H			
43	HV Conductor Material	1	Aluminium			
44	LV Conductor Material	1	Aluminium			
45	Paint Finish Colour		Dark Admiralty Grey (BS 632 shade)			
46	Transformer Type		Free Breathing, bolted cover			
			Cable Box - 12kV, 3-Pole, (Facing-'E' BS:2562) with 1 take			
47	HV termination type		off per phase			



	Pavan Kiran Suresh V						
	Prepared By			Checked & Approved By			
	Tu.Cneck	of core and frame insulation for I	iiquia immerse	u transformers wit	n core or trame		
		of the ratio and polarity of built-in			h aana an fus		
	8. Tightness tests and pressure tests for tanks for gas-filled transformers						
	7. Leak testing with pressure for liquid-immersed transformers (tightness test) (11.8)						
	6. Tests on on-load tap-changers, where appropriate (11.7)						
	5. Dielectric routine tests (IEC 60076-3)						
	4. Measurement of no-load loss and current (11.5)						
	3. Measurement of short-circuit impedance and load loss (11.4)						
		ement of voltage ratio and check		lacement (11.3)			
	1. Measurement of winding resistance (11.2)						
	List of Routine Tests - Per IEC 60076-1:						
	Comments: All losses, dimensions & weights are provisional only subject to confirmation following detailed design						
80	Other info	ormation					
79	CT checks			No			
78		y response analysis		No			
77	1	gas analysis		No			
76	Noise test			No			
75	Tempertu	re rise test		No			
74	Chopped				No		
73	Lighting Ir				No		
72	Routine to	ests	A	100	Yes		
		A	Testing Requi	rement	- F		
71	Weight		kg		2900		
70	Oil		L		1044		
69	Height		mm		1750		
68	Width	/ A	mm		1387		
67	Length		mm		1835		
			Overall Dime	ensions			
66	Bund				No		
65	Marshallir	ng box	1		No		
64		cting links LV			No		
63	Disconnec	cting links HV	/ ·		No		
62	Neutral C	Ts			No		
61	LV CTs		/\		No		
60	HV CTs	.01			No		
59	Conservat				No		
57 58		emperature Indicator Liquid Level Indicator			No No		
56	Buchholz			No No			
55	· ·	erature Indicator		No			
54	+	Relief Device		No			
53	+	ng Breather		Yes			
52	Radiator \			No			
51	1	ve & Sampling Valve			Yes		
			Accessor	ies			
50	Harmonis	distortion	THD%		<5%		
49	Neutral			Located inside - cable box			
				off per phase & Neutral			