

S.No.	Description	Units	Particulars
1	Project Name	0	-
<u> </u>	Quote Number		-
3	Manufacturer		Wilson Power Solutions Ltd
ļ	Applicable Standard		IEC 60076
5	General Arrangement Dwg		-
5	Transformer Rating	kVA	500
7	Rated High Voltage @ No Load	Volts	11000
3	Rated Low Voltage @ No Load	Volts	415
)	Minimum Insulation class HV LI	kV	75
LO	Minimum Insulation class HV AC	kV	28
l1	Minimum Insulation class LV LI	kV	(n-n/2) - 23)
L2	Minimum Insulation class LV AC	kV	3
L3	Line Current LV / HV	Α	695.62 / 26.24
.4	Insulating Fluid	$\Delta \Delta$	Mineral Oil
L5	Fans		No
16	Pumps		No
.7	Type of Cooling		ONAN
L8	Number of Phases		3
L9	Frequency	Hz	50
20	Vector Group		Dyn11
21	Impedance Voltage (Z)	%	4.75
	Subjected to +/- IEC tolerence limits		
22	Symmetrical Short Circuit Current in LV	kA	14.35
23	Symmetrical Short Circuit Current in HV Rated	kA	0.54
	Tap		
24	Core Material	144	Amorphous
25	No Load Losses	W	295
26	Load Losses @ 75°C	W	2750
27	Losses as per EU Regulation No. 548/2014	N.	Exceeds Tier-2 Requirement
28	Resistance	%	0.55
29	Reactance	%	4.72
30	Positive sequence resistance at principal tap	P. U.	0.0055
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.	0.0044
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
88	Design Ambient Temperature	°C	40
39	Temp Rise of Top Oil	°C	60
10	Temp Rise of Winding	°C	65
1 1	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
47	HV termination type		Cable Box - 12kV, 3-Pole, (Facing-'E' BS:2562) with 1 take per phase



48	LV termination type		Cable box - 1.1kV, 4-Pole, (Facing-'F', BS:2562) with 1 take off per phase & Neutral			
49	Neutral		Located inside - cable box			
50	Harmonis distortion	THD%	<5%			
		1276				
Access						
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 No			
57	Winding Temperature Indicator		No No			
58 59	Magnetic Liquid Level Indicator Conservator		No No			
60	HV CTs		No No			
61	LV CTs		No No			
62	Neutral CTs		No No			
63	Disconnecting links HV		No			
64	Disconnecting links IV		No			
65	Marshalling box		No			
66	Bund		No No			
	Il Dimensions		140			
		1	1005			
67	Length	mm	1835			
68	Width	mm	1387			
69	Height	mm	1750			
70	Oil	L	897			
71	Weight	kg	3370			
Testin	g Requirement					
72	Routine tests	11194	Yes			
73	Lighting Impulse	2.1	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			
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