

TRANSFORMER DATA SHEET

Project		
Manufacturer:	Wilson Power Solutions Ltd	
Applicable Standard:	IEC 60076	
General Arrangement Dwg #:	WPS-T2-3000-AL-GA	
Transformer Rating:	kVA	3000
Rated HV @ No Load:	Volts	11000
Rated HV Current	A	157.45
Rated LV @ No Load:	Volts	433
Rated LV Current	A	4000.11
Minimum Insulation class HV LI:	kV	75
Minimum Insulation class HV AC:	kV	28
Insulating Fluid:		Mineral Oil
Transformer Type:		Free Breathing, bolted cover, tank attached cooling radiators
Fans:		No
Pumps:		No
Type of Cooling:		ONAN
Number of Phases:		3
Frequency:	Hz	50
Vector Group:		Dyn11
Design Impedance Voltage (Z):	%	6
Core Material:		CRGO Steel
No Load Losses:	W	1886
Load Losses @ 75°C:	W	21961
Losses as per EU Regulation No. 548/2014		EEC Eco Directive Tier 2 (2021)
Regulation type:		DETC
Tapping on HV:	%	5 Positions +/- 5% in 2.5% steps
Design Ambient Temperature:	°C	40
Temp Rise of Top Oil:	°C	60
Temp Rise of Winding:	°C	65
Altitude:	m	<1000
Pollution class:		C4
Sound Power Level:	dB(A)	62 dBA
HV Conductor Material:		Aluminium
LV Conductor Material:		Aluminium
Paint Finish & Colour:		Transformer has C4 paint finish to ISO12944, suitable for an outdoor application. BS381C Dark Admiralty Grey

HV termination type:		Cable Box - Bottom Entry
No of HV Cables		1 x 3c Cable
LV termination type:		Cable Box - Bottom Entry
No of LV Cables		4 x 1c Cables per phase & N
Maximum Harmonic distortion:	THD%	5%
Accessories:		
Drain Valve		Yes
Radiator Valves		No
Sampling Valve		No
Dehydrating Breather		Yes
Pressure relief device c/w 1 x Volt-Free contact		No
Conservator		Yes
Oil temperature indicator c/w 2 x volt-free contacts		No
Gas operated bucholz relay c/w 1 x volt-free contact		Yes
Winding temperature indicator c/w 2 x volt-free contacts		No
Prismatic Oil level indicator (sight glass)		Yes
Oil level gauge c/w 1 x volt-free contact		No
HV CTs		No
LV CTs		No
Neutral CTs		No
Disconnecting links HV		No
Disconnecting links LV		No
All Volt-Free contacts wired to a transformer mounted marshalling box.		Yes
Pre-fabricated metal bund, suitable for 110% transformer oil capacity		No
Overall Dimensions:		
Length	mm	1960
Width	mm	1980
Height	mm	2995
Volume of Oil	L	1790
Weight:	kg	7400
Testing Requirement:		
Routine tests		Yes
Lighting Impulse		No
Chopped impulses		No
Temperature rise test		No
Noise test		No
Dissolved gas analysis		No
Frequency response analysis		No
CT checks		No
Comments: All losses, dimensions & weights are provisional only subject to confirmation following detailed design.		