



TorTech
30 Years as Australia's transformer specialist



TECHNICAL DATA SHEET



Kiosk Enclosure

***images are of a similar transformer unit.**



1. Technical Data

Item 1 – Dry Type Transformer		HV Winding 1	LV Winding 1
Rated power	kVA	4000	4000
Rated voltage	kV	0.415/11/22/33	0-1 kV
Frequency	Hz	50	
Off circuit tapping links	%	±2.5%, +5%	Nil
Connection		Delta	Star
Vector group		Dyn11	
Insulation level (Maximum BIL/AC)	kV	(145-20)/(3-70)	(145-20)/(3-70)
Winding material		Aluminium/Copper	Aluminium/Copper
Type of winding		Oil Type	Oil Type
Standard		AS 60076-11, AS 2374	
Installation		Indoor/Outdoor	
Degree of protection		IP00-IP56	
Type of cooling		ONAN	
Installation altitude		< 1000 a.m.s.l	
Climatic/environmental and fire behaviour class		E2-C2-F_ (0/1)	
Indicative values		Reference Temperature: 75°C	
Standard tolerances per AS 60076 are applicable to the following values			
No-load loss	W	4250	
Load loss	W	28800	
Impedance	%	4-6%	
Efficiency @ 75degC @ cosφ = 1	50% /75%/100% Load	99.17/99.31/99.42 (MEPS COMPLIANT)	
Efficiency @ 75degC @ cosφ = 0.8	50% /75%/100% Load	98.97/99.14/99.27 (MEPS COMPLIANT)	
Insulation Class			
Max.ambient temperature	°C	45	
		HV winding	LV winding
Insulation temperature class		A	
Temperature rise	°C	100	
Overall dimensions and weights (Preliminary)			
Width x Depth x Height (IP00)	mm	2700 x 2500 x 2750	
Mass (IP00)	Kg	8500	
NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.			
Accessories			
STANDARD (FOR EA TRANSFORMER)		UNITS	
HV terminals		3	HV bushing
LV terminals		4	LV bushing
Rating plate		1	Stainless Steel



Radiator	Yes	
Oil Temperature Thermometer	Yes	
Pressure Relief Valve	Yes	
Oil Level Indicator	Yes	
Drain & Filling Valve, Earth Terminal	Yes	
Lifting Lugs	Yes	
Routine tests (Included)		
Winding resistance	Yes	
Ratio and phase relationship	Yes	
Impedance voltage, short circuit impedance and load loss	Yes	
No load loss	Yes	
Induced over voltage withstand	Yes	
Separate source voltage withstand	Yes	
Insulation resistance	Yes	
Type tests (Optional – additional cost)		
Temperature rise test	Yes	
Impulse test	Yes	
Noise pressure level test	Yes	

Drawings issued 1 week after the order.

Project timeline issued 2 weeks after order.

Inspection and Test Plan, Operation and Maintenance manuals submitted 4 weeks prior to delivery.