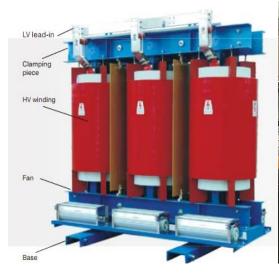




TECHNICAL DATA SHEET







Kiosk Enclosure

*images are of a similar transformer unit.





1. Technical Data

Rated power RVA	Item 1 – Dry Type Transformer		HV Winding 1	LV Winding 1	
Frequency Hz 50 Off circuit tapping links % ±2.5%, +-5% Nill Connection Delta Star Vector group Dyn11 Insulation level (Maximum BIL/AC) kV (145-20)/(3-70) (145-20)/(3-70) Aluminium/Copper	Rated power	kVA	1000	1000	
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 Aluminium/Copper Type of winding Oil Type Oil Type Oil Type Standard AS 60076-11, AS 2374 Installation Indoor/Outdoor Degree of protection IP00-IP56 Type of cooling ANAF Installation altitude < 1000 a.m.s.I	Rated voltage	kV	0.415/11/22/33	0-1 kV	
Delta Star	Frequency	Hz	<u> </u>		
Vector group Novint Insulation level (Maximum Bil/AC) kV	Off circuit tapping links	%	±2.5%, +-5%	Nil	
Insulation level (Maximum BIL/AC)	Connection		Delta	Star	
Maximum BIL/AC KV	Vector group		Dyn	11	
Minding material Aluminium/Copper Aluminium/Copper	Insulation level	LA /	(145.20)/(2.70)	(1.45.20) /(2.70)	
Type of winding	(Maximum BIL/AC)	KV	(143-20) / (3-70)	(143-20) / (3-70)	
Standard AS 60076-11, AS 2374 Installation Indoor/Outdoor	Winding material		Aluminium/Copper	Aluminium/Copper	
Installation	Type of winding		Oil Type	Oil Type	
Degree of protection IP00-IP56 Type of cooling ANAF Installation altitude < 1000 a.m.s.l	Standard		AS 60076-1	1, AS 2374	
Type of coolling	Installation		Indoor/Outdoor		
Installation altitude	Degree of protection		IP00-IP56		
Climatic/environmental and fire behaviour class Te2-C2-F_(0/1)	Type of cooling		ANAF		
Indicative values Reference Temperature: 75°C Standard tolerances per AS 60076 are applicable to the following values No-load loss W 1593 Load loss W 7724 Impedance % 4-6% Efficiency @ 75degC 50% /75%/100% 99.08/99.21/99.30 (MEPS COMPLIANT) @ cosφ = 1 Load Efficiency @ 75degC 50% /75%/100% 98.85/99.02/99.13 (MEPS COMPLIANT) @ cosφ = 0.8 Load Insulation Class Max.ambient temperature °C 45 class F (155°C) / H (180°C) Temperature rise °C 100 Overall dimensions and weights (Preliminary) Width x Depth x Height (IP00) mm 1600 x 870 x 1665 Mass (IP00) Kg 2700 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 4 LV bushing	Installation altitude		< 1000 a.m.s.l		
Indicative values Standard tolerances per AS 60076 are applicable to the following values No-load loss W 1593 Load loss W 7724 Impedance 6 4-6% Efficiency @ 75degC cosφ = 1 Load Efficiency @ 75degC sow 75%/100% cosφ = 0.8 Load Insulation Class Max.ambient temperature HV winding Insulation temperature class Temperature rise C Overall dimensions and weights (Preliminary) Width x Depth x Height (IP00) Mass (IP00) Mass (IP00) Mass (IP00) Kg TANDARD (FOR EA TRANSFORMER) HV terminals LV terminals HV bushing LV bushing	Climatic/environmental		E2 C2 E	(0/1)	
Standard tolerances per AS 60076 are applicable to the following values No-load loss W 1593 Load loss W 7724 Impedance % 4-6% Efficiency @ 75degC 50% /75%/100% 99.08/99.21/99.30 (MEPS COMPLIANT) @ cosφ = 1 Load Efficiency @ 75degC 50% /75%/100% 98.85/99.02/99.13 (MEPS COMPLIANT) @ cosφ = 0.8 Load Image: Complete to the following received	and fire behaviour class		E2-C2-F_ (U/1)		
No-load loss W 1593 Load loss W 7724 Impedance % 4-6% Efficiency @ 75degC 50% /75%/100% 99.08/99.21/99.30 (MEPS COMPLIANT) @ cosφ = 1 Load Efficiency @ 75degC 50% /75%/100% 98.85/99.02/99.13 (MEPS COMPLIANT) @ cosφ = 0.8 Load Temperature Insulation Class Max.ambient temperature °C 45 class F (155°C) / H (180°C) Temperature rise °C 100 Overall dimensions and weights (Preliminary) Width x Depth x Height (IP00) mm 1600 x 870 x 1665 Mass (IP00) Kg 2700 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	Indicative values Reference Temperature:			Temperature: 75°C	
Load loss W 7724 Impedance % 4-6% Efficiency @ 75degC 50% /75%/100% 99.08/99.21/99.30 (MEPS COMPLIANT) @ cosφ = 1 Load Efficiency @ 75degC 50% /75%/100% 98.85/99.02/99.13 (MEPS COMPLIANT) @ cosφ = 0.8 Load **** **Temperature Class** Max. ambient temperature class **** **Properature of the properature class** **Temperature rise **** **OC 45*** **He winding to the properature class** **Temperature rise **** **OC 100*** *** **Overall dimensions and weights (Preliminary)** **Width x Depth x Height (IP00) *** **Meight (IP00) *** **Mass (IP00) *** **Kg 2700*** **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	Standard tolerances per AS 60076 are applicable to the following values				
$ \begin{array}{ c c c c } \hline \mbox{Impedance} & \% & 4-6\% \\ \hline Efficiency @ 75 degC & 50\% /75\%/100\% & 99.08/99.21/99.30 (MEPS COMPLIANT) \\ @ \cos \varphi = 1 & Load & \\ \hline Efficiency @ 75 degC & 50\% /75\%/100\% & 98.85/99.02/99.13 (MEPS COMPLIANT) \\ @ \cos \varphi = 0.8 & Load & \\ \hline \hline \mbox{Insulation Class} \\ \hline \mbox{Max.ambient temperature} & ^{\circ}C & 45 \\ \hline \mbox{Insulation temperature class} & HV winding & LV winding \\ \hline \mbox{Insulation temperature rise} & ^{\circ}C & 100 \\ \hline \mbox{Overall dimensions and weights (Preliminary)} \\ \hline \mbox{Width x Depth x Height (IP00)} & mm & 1600 x 870 x 1665 \\ \hline \mbox{Mass (IP00)} & Kg & 2700 \\ \hline \mbox{NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.} \\ \hline \mbox{Accessories} \\ \hline \mbox{STANDARD (FOR EA TRANSFORMER)} & UNITS \\ \hline \mbox{HV terminals} & 3 & HV bushing LV terminals} \\ \mbox{LV terminals} & 4 & LV bushing} \\ \hline \mbox{LV bushing} \\ \hline \mbox{LV terminals} & 4 & LV bushing} \\ \hline \mbox{LV bushing} \\ \mbox{LV bushing} \\ \mbox{LV bushing} \\ \mbox{LV bushing} \\ \hline \mbox{LV bushing} \\ \mbox{LV bushing}$	No-load loss	W	1593		
	Load loss	W	7724		
@ cosφ = 1 Load Efficiency @ 75degC 50% /75%/100% 98.85/99.02/99.13 (MEPS COMPLIANT) @ cosφ = 0.8 Load Insulation Class Max. ambient temperature °C 45 Insulation temperature class F (155°C) / H (180°C) Temperature rise °C 100 Overall dimensions and weights (Preliminary) Width x Depth x Height (IP00) mm 1600 x 870 x 1665 Mass (IP00) Kg 2700 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	Impedance	%	4-6%		
Efficiency @ 75degC @ cosp = 0.8		50% /75%/100%	99.08/99.21/99.30 (MEPS COMPLIANT)		
Insulation Class Max.ambient temperature °C 45 Insulation temperature class HV winding LV winding Insulation temperature class F (155°C) / H (180°C) Temperature rise °C 100 Overall dimensions and weights (Preliminary) Width x Depth x Height (IP00) mm 1600 x 870 x 1665 Mass (IP00) Kg 2700 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	$ \cos \varphi = 1 $	Load			
Insulation Class Max.ambient temperature °C 45 Insulation temperature class F (155°C) / H (180°C) Temperature rise °C 100 Overall dimensions and weights (Preliminary) Width x Depth x Height (IP00) mm 1600 x 870 x 1665 Mass (IP00) Kg 2700 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	Efficiency @ 75degC	50% /75%/100%	98.85/99.02/99.13 (MEPS COMPLIANT)		
Max.ambient temperature°C 45 Insulation temperature classHV windingLV windingTemperature rise°C 100 Overall dimensions and weights (Preliminary)Width x Depth x Height (IP00)mm $1600 \times 870 \times 1665$ Mass (IP00)Kg 2700 NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.AccessoriesSTANDARD (FOR EA TRANSFORMER)UNITSHV terminals3HV bushingLV terminals4LV bushing	$@\cos\varphi = 0.8$	Load			
temperature MV winding LV winding	Insulation Class				
Insulation temperature class Temperature rise OC Overall dimensions and weights (Preliminary) Width x Depth x Height (IP00) Mass (IP00) 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) HV terminals A UNITS HV terminals HV bushing LV terminals 4 LV bushing	Max.ambient	°C	45		
Insulation temperature class Temperature rise °C 100 Overall dimensions and weights (Preliminary) Width x Depth x Height (IP00) Mass (IP00) Kg 2700 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) HV terminals 3 HV bushing LV terminals 4 LV bushing	temperature				
Class Temperature rise C C Temperature rise C C Temperature rise C Temperature rise C To To To To To To To To To			HV winding	LV winding	
Temperature rise C Temperature rise C Temperature rise C Too Overall dimensions and weights (Preliminary) Width x Depth x Height (IP00) Mass (IP00) Kg Too 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) HV terminals Too Too Too Too Too Too Too T	Insulation temperature		F (155°C) / H (180°C)		
Overall dimensions and weights (Preliminary) Width x Depth x Height (IP00) Mass (IP00) Kg 2700 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) HV terminals UNITS HV terminals 4 LV bushing LV terminals			(100 0)		
Width x Depth x Height (IP00) Mass (IP00) Kg 2700 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 1600 x 870 x 1665 2700 UNITS HV terminals 4 HV bushing LV terminals 4 LV bushing	Temperature rise	$^{\circ}\! \mathbb{C}$	100		
Width x Depth x Height (IP00)mm1600 x 870 x 1665Mass (IP00)Kg2700NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.AccessoriesSTANDARD (FOR EA TRANSFORMER)UNITSHV terminals3HV bushingLV terminals4LV bushing					
Height (IP00) Mass (IP00) Kg 2700 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) HV terminals UNITS HV terminals 4 LV bushing				0 1665	
Mass (IP00)Kg2700NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.AccessoriesSTANDARD (FOR EA TRANSFORMER)UNITSHV terminals3HV bushingLV terminals4LV bushing	_	mm	1600 x 870 x 1665		
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) HV terminals J HV bushing LV terminals 4 LV bushing		Kg	2700		
purchase order and completion of engineering stage. Accessories STANDARD (FOR EA TRANSFORMER) HV terminals LV terminals 4 LV bushing					
Accessories STANDARD (FOR EA TRANSFORMER) HV terminals LV terminals 4 LV bushing LV bushing					
STANDARD (FOR EA TRANSFORMER)UNITSHV terminals3HV bushingLV terminals4LV bushing					
HV terminals3HV bushingLV terminals4LV bushing		TRANSFORMER)	UNITS		
LV terminals 4 LV bushing	·	,		HV bushing	
C	LV terminals				
	Rating plate		1	Stainless Steel	





Routine tests (Included)				
Winding resistance	Yes			
Ratio and phase relationship	Yes			
Impedance voltage, short circuit impedance	Yes			
and load loss				
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.