

TOSHIBA	Toshiba Transmission & Distribution Systems (India) Pvt.Ltd. Distribution Transformers Division	Engineering
		Unit-10

GUARANTEED TECHNICAL PARTICULARS THREE PHASE DISTRIBUTION TRANSFORMER					
Tender No : 09921-16		Customer :- KKM Power OY Tender No :- DTR; SUPPLY TO SWEDEN THROUGH KKM, FINLAND			
kVA : 1250	kV :22/0.42	Phase : 3	Freq. : 50Hz	Cooling : ONAN	Doc No: EGT 39629
Sl. No.	Description	UNIT	1250 kVA		
1)	Make		Toshiba Transmission & Distribution Systems (India) Pvt. Ltd		
2)	Type		Hermitically Sealed		
3)	Phases	No.	Three		
4)	Rating	kVA	1250 kVA		
5)a)	Rated Voltage:				
	HV	V	22000		
	LV	V	420		
b)	Highest voltage for equipment				
	HV	kV	24		
	LV	kV	1		
6)	Tapping		Yes, +5% to -5% insteps of 2.5%		
7)	Frequency	Hz	50		
8)	Vector Group		Dyn 11		
9)	Insulation Level				
	HV	kV peak	125		
	LV	kV peak	Not Applicable		
10)	Power Frequency Level				
	HV	kV rms	50		
	LV	kV rms	3		
11)	Winding material		Aluminium		
12)	Core Material		CRGO		
13)	Temperature Rise:				
	Oil	°C	60		
	Winding	°C	65		
14)	Losses				
	No Load Losses at rated Voltage and Frequency	Watt	950 (MAX)-A0		
	Load Losses at 75 °C	Watt	11000 (MAX)-Ck		

"ALL INFORMATION CONTAINED IN THIS DOCUMENT IS CONFIDENTIAL AND THE PROPERTY OF TOSHIBA TRANSMISSION & DISTRIBUTION SYSTEMS (INDIA) PVT. LTD., REPRODUCTION OF THIS IN ANY FORM IS TO BE DONE WITH THE SPECIFIC PERMISSION OF THE ORGANIZATION"

TOSHIBA		Toshiba Transmission & Distribution Systems (India) Pvt.Ltd. Distribution Transformers Division		Engineering
				Unit-10
15)	Impedance Voltage	%	6% (+/- IEC Tolerance Applicable)	
16)	Percentage Resistance	%	0.88	
17)	Regulation at:			
	Full Load UPF	%	1.06	
	Full Load 0.8 PF	%	4.35	
18)	Efficiency at 0.8 PF:			
	Full Load	%	99.05	
	¾ Full Load	%	99.24	
	½ Full Load	%	99.41	
19)	Terminal Arrangement:			
	HV		Bare Porcelain Bushings	
	LV		Bare Porcelain Bushings	
20)	Maximum Overall Dimensions:			
	Length	mm	1880	
	Width	mm	1115	
	Height	mm	1830	
21)	Overall Weight			
	Total Weight	Kg.	4080	
22)	Noise Level	LwA dB (A)	56	

Note:

1. Actual overall dimensions and weights are subjected to +/-10% Tolerance, provided that the tolerance is not exceeded the maximum value defined.
2. All the efficiencies and regulations are calculated at the nominal values of NLL, LL AT 75DegC and %Z at 75 Deg C.
3. Lowest cold start temperature shall be considered as -30°C.