

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

**GUARANTEED TECHNICAL PARTICULARS  
THREE PHASE DISTRIBUTION TRANSFORMER**

Enquiry No : 10223-1	Customer : KKM POWER , FINLAND				
kVA : 50	kV :11/0.42	Phase : 3	Freq. : 50Hz	Cooling : ONAN	Doc No: EGT 40745R1

Sl. No.	Description	UNIT	50 kVA
1)	Make		Toshiba Transmission & Distribution Systems (India) Pvt. Ltd
2)	Type		Hermitically Sealed
3)	Phases	No.	Three
4)	Rating	kVA	50 kVA
5)a)	Rated Voltage:		
	HV	V	11000
	LV	V	420
b)	Highest voltage for equipment		
	HV	kV	12
	LV	kV	1
6)	Tappings		+5.0% to -5.0 % in steps of 2.5%
7)	Frequency	Hz	50
8)	Vector Group		Dyn11
9)	Insulation Level		
	HV	kV peak	75
	LV	kV peak	Not Applicable
10)	Power Frequency Level		
	HV	kV rms	28
	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	90 (MAX)-A0
	Load Losses at 75 °C	Watt	1100 (MAX)-Ck
15)	Impedance Voltage	%	4% (+/- IEC Tolerance Applicable)

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16)	Percentage Resistance	%	2.20	
17)	Regulation at:			
	Full Load UPF	%	2.26	
	Full Load 0.8 PF	%	3.77	
18)	Efficiency at 0.8 PF:			
	Full Load	%	97.11	
	¾ Full Load	%	97.69	
	½ Full Load	%	98.21	
19)	Terminal Arrangement:			
	HV			Bare Bushings – Porcelain-12kV/250A
	LV			Bare Bushings – Porcelain-1kV/250A
20)	Actual Overall Dimensions:			
	Length	mm		As per OGA drawing
	Width	mm		As per OGA drawing
	Height	mm		As per OGA drawing
21)	Overall Weight			
	Total Weight	Kg.	475	
22)	Noise Level	LwA dB (A)	39	
	<b>Applicability of Optional Fittings For above mentioned Actual Overall Dimensions</b>			
23)	Rollers			No
24)	Pole Mounting consoles			No
25)	HV flags/connector/lug			No
26)	LV flags/connector/lug			No
27)	HV Tapping/Tap Switch			Yes

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.