

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

**GUARANTEED TECHNICAL PARTICULARS
THREE PHASE DISTRIBUTION TRANSFORMER**

Enquiry No : 11142-16	Customer : KKM POWER , FINLAND				
kVA : 1250	kV :11/0.42	Phase : 3	Freq. : 50Hz	Cooling : ONAN	Doc No: EGT 44357

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	11000
	LV	V	420
b)	Highest voltage for equipment		
	HV	kV	12
	LV	kV	1
c)	HV Tapping Range		+5% to -5% insteps of 2.5%
6)	Frequency	Hz	50
7)	Vector Group		Dyn 11
8)	Insulation Level		
	HV	kV peak	75
	LV	kV peak	Not Applicable
9)	Power Frequency Level		
	HV	kV rms	28
	LV	kV rms	3
10)	Winding material		Aluminium
11)	Core Material		CRGO
12)	Temperature Rise:		
	Oil	° C	60
	Winding	° C	65
13)	Losses		
	No Load Losses at rated Voltage and Frequency	Watt	855 (MAX)-Tier-2
	Load Losses at 75 ° C	Watt	9500 (MAX)-Tier-2
14)	Impedance Voltage	%	6% (+/- IEC Tolerance Applicable)
15)	Percentage Resistance	%	0.76
16)	Regulation at:		
	Full Load UPF	%	0.94
	Full Load 0.8 PF	%	4.27
17)	Efficiency at 0.8 PF:		

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	Full Load	%	98.98
	¾ Full Load	%	99.18
	½ Full Load	%	99.36
18)	Terminal Arrangement:		
	HV		Bare Bushings – Porcelain
	LV		Bare Bushings – Porcelain
19)	Actual Overall Dimensions:		
	Length	mm	1690
	Width	mm	1090
	Height	mm	1815(without rollers)*
20)	Maximum Weight	kg	3700
	Maximum Oil Volume	Lt.	780
21)	Noise Level	LwAdB(A)	55
Applicability of Optional Fittings For above mentioned Actual Overall Dimensions			
22)	Rollers		Yes
23)	Pole Mounting consoles		No
24)	HV bushing flags/connector/lug		No
25)	LV bushing flags/ connector/lug		No
26)	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.
3. * With Rollers transformer height will increase by 150mm.
4. With HV flags transformer overall height will increase.