

**TOSHIBA** 

## Toshiba Transmission & Distribution Systems (India) Pvt.Ltd. Distribution Transformers Division

Engineering

Unit-10

				ECHNICAL PART		
	_			STRIBUTION TRA	NSFORMER	
Enquiry N 11158–2	lo :	Customer: KKM PO	WER Oy, Finland (0	CARUNA)		
kVA : 100 kV :20.5/0.41 Phase : 3		Freq. : 50Hz	Cooling: ONAN Doc No: EGT 44450			
Sl. No.	Descrip	Description		UNIT	100 kVA	
1)	Make			Toshiba Transmission & Distribution System (India) Pvt. Ltd		
2)	Туре				Hermitically Sealed	
3)	Phases			No.	Three	
4)	Rating			kVA	100 kVA	
5)a)	_	/oltage:		KV/	100	1(4/)
J/a/	Rated Voltage:			V	20500	
	LV			V	410	
b)	Highest voltage for equipment					· ·
	HV			kV	24	
	LV			kV	1	
c)	HV Tapping Range				Not Applicable	
6)	Frequency			Hz	50	
7)	Vector Group				Dyn11	
8)	Insulation Level					
	HV			kV peak	125	
	LV		kV peak	Not Applicable		
9)	Power I	Frequency Level				
	HV			kV rms	50	
	LV			kV rms	3	
10)	Winding material				Aluminium	
11)		Core Material			CF	RGO
12)	Temperature Rise:					
	Oil			° C	60	
	Winding		° C	65		
13)	Losses					
	No Load Losses at rated Voltage and Frequency			Watt	130 (MAX)-Tier-2	
	Load Losses at 75 °C		Watt	1250 (MAX)-Tier-2		
14)	Impedance Voltage		%	4% (+/- IEC Tolerance Applicable)		
15)	Percentage Resistance		%	1.25		
16)	Regulation at:			-		
	Full Load UPF			%	1.32	
	Full Load 0.8 PF			%	3.31	
17)					<u> </u>	

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	Full Load		%	98.30		
	¾ Full Load		%	98.63		
	½ Full Load		%	98.91		
18)	Terminal Arrangement:					
	HV			Bare Bushings - Porcelain-24kV/250A-P2		
	LV			Bare Bushings - Porcelain-1kV/250A		
19)	Actual Overall Dimensions:					
	Length		mm	As non CA duovino		
	Width		mm	As per GA drawing 3 OG 86668		
	Height		mm	3 00 80008		
20)	Overall Weigh	t				
	Total Weight Kg.		860	860		
21)	Noise Level		LwA dB (A)	41		
	Applicability of Optional Fittings For above mentioned Actual Overall Dimensions					
22)	Rollers			No		
23)	Pole Mounting	g consoles		No		
24)	HV flags/coni	nector/lug		No		
25)	LV flags/conr	nector/lug		No		

## Note:

26)

- 1. Actual overall dimensions and weights are subjected to +/-10% Tolerance.
- 2. All the efficiencies and regulations are calculated at the nominal values of NLL, LL AT 75DegC and % Z at 75 Deg C.

Νo

3. Paint: Class C4 corrosion protection paint will be provided.

HV Tapping/Tap Switch

4. If HV/LV flags required transformer overall height will increase.