

**TOSHIBA** 

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

Engineering

Unit-10

			GUARANTEED	TECHNICAL PART	ΓICULARS	
		TH	IREE PHASE DI	STRIBUTION TRA	NSFORMER	
ENQUIRY 11158		Gustomer: KKM PO	WER Oy, Finland (	(CARUNA)		
kVA : 500 kV :20.5/0.41 Phase : 3		Freq. : 50Hz	Cooling : ONAN	Doc No: EGT 44453		
SI. No.	Descrip	Description		UNIT	500 kVA	
1)	Make				Toshiba Transmission & Distribution Systems (India) Pvt. Ltd	
2)	Туре				Hermitically Sealed	
3)	Phases			No.	Three	
4)	Rating			kVA	500 kVA	
5)a)	_			NVA	300 1	NYA .
5)a)	Rated Voltage:			V	20500	
	LV			V	410	
b)	Highest voltage for equipment					<u>-</u>
	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	Frequency Level				
	HV			kV rms	50	
	LV			kV rms	3	
10)	Winding material				Aluminium	
11)	Core M				CRO	GO
12)	Temperature Rise:			-		
	Oil			° C	60	
	Winding			° C	65	
13)	Losses					
	No Load Losses at rated Voltage and Frequency			Watt	459 (MAX)-Tier-2	
	Load Losses at 75 °C			Watt	3900 (MAX)-Tier-2	
14)	Impedance Voltage			%	4% (+/- IEC Tolerance Applicable)	
15)	Percentage Resistance		%	0.78		
16)	Regulation at:				<del>•••</del>	
	Full Load UPF			%	0.86	
	Full Load 0.8 PF			%	3.01	
17)						

TOSHIBA		Toshiba Transmissio	Engineering Unit-10			
	Full Load	L	% 98.92			
	¾ Full Load		%	99.12		
	½ Full Load		%	99.29		
18)	Terminal Arrangement:					
	HV			Bare Bushings - Porcelain-24kV/250A-P2		
	LV			Bare Bushings - Porcelain-1kV/1250A		
19)	Actual Overall Dimensions:					
	Length		mm	As per GA drawing 3OG86671		
	Width		mm			
	Height		mm			
20)	Overall Weigh	t				
	Total Weight		Kg.	2310		
21)	Noise Level	Noise Level		51		
		Applicability of Optional Fit	mentioned Actual Overall Dimension	ons		
22)	Provision for Rollers			Yes		
23)	Pole Mounting	Pole Mounting consoles		No		
24)	HV bushing flags/connector/lug			No		

## Note:

25)

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 @ 75DegC and %Z @75DegC.

No

No

- 3. \* With Rollers transformer height will increase by 100mm.
- 4. With HV flags transformer overall height will increase.

LV bushing flags/ connector/lug

HV Tapping/Tap Switch

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