



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

Engineering

Unit-10

			GUARANTEED 1	ECHNICAL PART	TICULARS	
		TH	REE PHASE DIS	STRIBUTION TRA	NSFORMER	
ENQUIRY 11158		Customer: KKM PO	WER Oy, Finland (0	CARUNA)		
kVA : 800 kV :20.5/0.41 Phase : 3			Freq. : 50Hz	Cooling : ONAN	Doc No: EGT 44454	
Sl. No.	Descrip	otion	<u> </u>	UNIT	800 kVA	
1)	Make			Toshiba Transmission & Distribution Systems (India) Pvt. Ltd		
2)	Туре				Hermitically Sealed	
3)	Phases			No.	Three	
4)	Rating			kVA	800 kVA	
5)a)	Rated Voltage:			KV/	000	NV/
0/4/	HV			V	20500	
	LV			V	410	
b)	Highest	voltage for equipm	ent			
	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)		Frequency Level				
	HV			kV rms	50	
10)	LV		kV rms	3		
10) 11)	Winding material			Aluminium CRGO		
	Core Material				UN.	.do
12)	Temperature Rise:			° 0		20
	Oil			° C	60 65	
	Winding		° C	0	00	
13)	Losses					
	No Load Losses at rated Voltage and Frequency			Watt	585 (MAX)-Tier-2	
	Load Losses at 75 °C		Watt	6000 (MAX)-Tier-2		
14)	Impedance Voltage		%	6% (+/- IEC Tolerance Applicable)		
15)	Percentage Resistance		%	0.75		
16)	Regulation at:					
	Full Load UPF			%	0.93	
	Full Load 0.8 PF			%	4.26	
17)						

		Toshiba Transmiss	ba Transmission & Distribution Systems (India) Pvt.Ltd.				
			bution Transforr	Unit-10			
	Full Load	<u> </u>	%	98.98			
	¾ Full Load		%	99.18			
	½ Full Load		%	99.35			
18)	Terminal Arrangement:						
	HV			Bare Bushings - Porcelain-24kV/250A-P2			
	LV			Bare Bushings - Porcelain-1kV/1250A			
19)	Actual Overall Dimensions:						
	Length		mm	As non CA duovino			
	Width		mm	As per GA drawing 30G86672			
	Height		mm	30G80072			
20)	Overall Weigh	t					
	Total Weight Kg.		3010	3010			
21)	Noise Level		LwAdB(A)	53			
	Applicability of Optional Fittings For above mentioned Actual Overall Dimensions						
22)	Provision for	Rollers		Yes			
23)	Pole Mounting	g consoles		No			
24)	HV bushing fl	ags/connector/lug		No			
25)	LV bushing fla	ags/ connector/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 @ 75DegC and %Z @ 75 Deg C.

Νo

- 3. * With Rollers transformer height will increase by 135mm.
- 4. With HV flags transformer overall height will increase.

HV Tapping/Tap Switch

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