



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

Engineering

Unit-10

			GUARANTEED T	ECHNICAL PART	TCULARS	
		TH	IREE PHASE DIS	STRIBUTION TRA	NSFORMER	
Work orde 0886		Customer: Re-Tech	Oy, Finland.			
kVA :	800	kV :20.5/0.41	Phase : 3	Freq. : 50Hz	Cooling : ONAN	
Sl. No.	Descrip	tion		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:			- KVX	555 KV/K	
0,4,	HV		V	20500		
	LV		V	410		
b)	Highest voltage for equipment					
	HV			kV	24	
	LV			kV	1	
c)	HV Tapping Range				+5% to -5% insteps of 2.5%	
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	
40)	LV			kV rms	3	
10)	Winding material			Aluminium		
11)	Core Material			CRGO		
12)		ature Rise:		° 0	20	
	Oil			U	60	
	Winding			° C	65	
13)	Losses					
	No Loa Freque	d Losses at rated V ncv	oltage and	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)				/0	0.73	
10)	Regulation at: Full Load UPF			%	0.93	
	Full Load UPF Full Load 0.8 PF			%	0.93 4.26	
17\	17) Efficiency at 0.8 PF:		/0	4.20		
1 / /	Efficiency at 0.0 1 1.					

-01		Toshiba Transmission & Distribution Systems (India) Pvt.Ltd. Distribution Transformers Division			Engineering				
TOS	SHIBA				Unit-10				
	Full Load	<u> </u>	%	98.98	•				
	¾ Full Load		%	99.18					
	½ Full Load		%	99.35					
18)	Terminal Arrangement:								
	HV			Bare Bushings - Plug in-24kV/250A					
	LV			Bare Bushings - Porcelain-1kV/1250A					
19)	Actual Overall Dimensions:								
	Length		mm	1660					
	Width		mm	985					
	Height		mm	1360(without rollers)*					
20)	Overall Weight								
	Total Weight		Kg.	3100					
21)	Noise Level		LwAdB(A)	53					
	Applicability of Optional Fittings For above mentioned Actual Overall Dimension								
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.

Yes

3. * With Rollers transformer height will increase by 100mm.

HV Tapping/Tap Switch

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