

TOSHIBA

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

Engineering

Unit-10

GUARANTEED TECHNICAL PARTICULARS THREE PHASE DISTRIBUTION TRANSFORMER									
Work orde 881		Customer: Re-Tech	Oy, Finland						
kVA : 200		kV :20.5/0.41	Phase : 3	Freq. : 50Hz	Cooling : ONAN				
SI. No.	Descrip	otion		UNIT	200 kVA				
1)	Make				Toshiba Transmission & Distribution System (India) Pvt. Ltd				
2)	Туре				Hermitically Sealed				
3)	Phases			No.	Three				
4)	Rating			kVA	200 kVA				
5)a)	Rated Voltage:								
	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			KV peak	ног Аррисаріе				
	HV			kV rms	50				
	LV			kV rms	3				
10)	Winding material		NV TIME	Aluminum					
11)	Core Material				CRGO				
12)	Temperature Rise:								
	Oil			° C	60				
	Winding		° C	65					
13)	Losses								
	No Load Losses at rated Voltage and Frequency			Watt	225 (MAX)-Tier-2				
	Load Losses at 75 ° C		Watt	2016.66 (MAX)-Tier-2					
14)	Impedance Voltage		%	4% (+/− IEC Tolerance Applicable)					
15)	Percentage Resistance		%	1.01					
16)	Regulation at:								
	Full Load UPF			%	1.08				
	Full Load 0.8 PF			%	3.16				
17)		ncy at 0.8 PF:							

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	Full Load	1.	%	98.62			
	¾ Full Load		%	98.88			
	½ Full Load		%	99.10			
18)	Terminal Arrangement:						
	HV			Bare Bushings - Plug in-24kV/250A			
	LV			Bare Bushings - Porcelain	-1kV/630A		
19)	Actual Overall Dimensions:						
	Length		mm	1085			
	Width		mm	797			
	Height		mm	1090 (without rollers)*			
20)	Overall Weight						
	Total Weight		Kg.	1210			
21)	Noise Level		LwAdB(A)	45.33			
	Applicability of Optional Fittings For above mentioned Actual Overall Dimensions						
22)	Provision for	Rollers		Yes			
23)	Pole Mounting	g consoles		No			
24)	HV bushing fla	ags/connector/lug		No			
25)	LV bushing flags/ 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 AT 75 Deg C and % Z at 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.