

TOSHIBA

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

Engineering

Unit-10

GUARANTEED TECHNICAL PARTICULARS THREE PHASE DISTRIBUTION TRANSFORMER

Enquiry No : Customer : KKM POWER Oy, Finland

10889

kVA: 100 kV:1/0.41 Phase: 3 Freq.: 50Hz Cooling: ONAN Doc No:

kVA :	100	kV :1/0.41	Phase : 3	Freq. : 50Hz	Cooling : ONAN	DOC NO:
Sl. No.	Description			UNIT	100 kVA	
1)	Make			Toshiba Transmission & Distribution Systems (India) Pvt. Ltd		
2)	Туре				Hermitically Sealed	
3)	Phases		No.	Three		
4)	Rating			kVA	100 kVA	
5)a)	Rated Voltage:					
	HV			V	1000	
	LV			V	410	
b)	Highest voltage for equipment			kV	1.0	
6)	HV Tapping Range			+5% to -5% insteps of 2.5%		
7)	Frequency		Hz	50		
8)	Vector Group			Dyn11		
9)	Insula	tion Level				
	HV			kV peak	Not Applicable	
	LV			kV peak	Not Applicable	
10)	Power Frequency Level					
	HV			kV rms	10	
	LV			kV rms	3	
11)	Winding material			Aluminium		
12)	Core N	Core Material			CRGO	
13)	Tempe	erature Rise:				
	Oil			°C	60)
	Windir	ng		°C	65	5
14)	Losses	5				
	No Load Losses at rated Voltage and Frequency			Watt	130 (MAX)	
	Load Losses at 75 °C			Watt	1250 (MAX)	
15)	Imped	Impedance Voltage			4% (+/- IEC Tolerance Applicable)	
16)	Percentage Resistance		%	1.25		

			n & Distribution Systems (India) Pvt.Ltd.		Engineering			
		Distribution Transformers Division			Unit-10			
17)	Regulation at:							
	Full Load UPF		%	1.32				
	Full Load 0.8 PF		%	3.31				
18)	Efficiency at 0.8 PF:							
	Full Load		%	98.3				
	3/4 Full Load		%	98.63				
	½ Full Load		%	98.91				
19)	Terminal Arrangement:							
	HV			Bare Bushings – Porcelain (3.6kV/250)				
				Reference standard : DIN 42539				
	LV			Bare Bushings – Porcelain(1kV/250A)				
				Reference standard : EN 50	386			
20)	Actual Overall Dimensions:							
	Length		mm	900				
	Width		mm	685				
	Height		mm	1300				
21)	Overall Weight							
	Total Weight		Kg.	680				
22)	Noise Level		LwA dB					
			(A)	As per NEEMA TR1				
	Applicability of Optional Fittings For this sale order							
23)	Rollers			No				
24)	Provision Fo	or Pole Mounting consoles		Yes				
25)	HV flags/co	nnector/lug		No				
26)	LV flags/co	nnector/lug		No				
27)	HV Tapping	ı/Tap Switch		Yes				
28)	Over pressu	ure valve		No				
29)	Thermometer pocket			No				
30)	Surge arrester holders			No				

Note:

- 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.
- 3. If HV/LV flags required transformer overall height will increase.
- 4. Paint: Class C4 corrosion protection paint will be provided instead of hot dip galvanizing.



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

Engineering

Unit-10

5. No load current is max 2% of full load current at rated voltage.