



GUARANTEED TECHNICAL PARTICULARS

Sl. No.	Description	UNIT	100 kVA
1)	Make		M/s. Shirdi Sai Electricals Ltd.
2)	Type		Distribution Transformer
3)	Phases	No.	Three
4)	Rating	kVA	100
5)	Applicable Standard		IEC 60076
6)	Voltage:		
	HV	V	20500
	LV	V	410
7)	Current:		
	HV	Amps	2.82
	LV	Amps	140.82
8)	Tapping		Off Circuit Tap Changer
9)	Tap Range		+5% to -5% in steps of 2.5%
10)	Frequency	Hz	50
11)	Vector Group		Dyn11
12)	Insualtion Level		
	HV	BIL/PF	LI 125 kV peak / AC 50kV rms
	LV	BIL/PF	-- / AC 3kV rms
13)	Winding material		Aluminium
14)	Core Material		CRGO
15)	No load Current @ 100% Load	%	≤ 2.0% of Full load current
16)	Oil		Inhibited mineral oil as per IEC 60296
17)	Temperature Rise:		
	Oil	°C	60
	Winding	°C	65
18)	Losses		
	Guaranteed No Load Losses	Watts	130 (Max.)
	Guaranteed Load Losses	Watts	1250 (Max.)
19)	Impedance Voltage	%	4% (+/- IEC Tol.)
20)	Regulation at:		
	Full Load UPF	%	1.32
	Full Load 0.8 PF	%	3.31
21)	Efficiency at UPF at		
	Full Load	%	98.64
	¾ Full Load	%	98.90
	½ Full Load	%	99.12
22)	Efficiency at 0.8 PF:		
	Full Load	%	98.30
	¾ Full Load	%	98.63
	½ Full Load	%	98.91
23)	Terminal Arrangement:		
	HV		Porcelain Bushings
	LV		Porcelain Bushings
24)	Oil	Kg	190
25)	Total Weight	Kg	960
26)	Overall Dimensions	mm	Length: 1020; Width: 780; Height: 1375
	Fittings & Accessories		
1	HV Porcelain bushings		
2	LV Porcelain bushings		
3	Oil level indicator		
4	Pressure relief device		
5	Off circuit tap changer		
6	Oil draining device		
7	Corrugation panel		
8	Pole mounting brackets		
9	Base channels		
10	Surge arrester mounting bracket		
11	Lifting lugs		
12	Earthing terminals		
13	Rating plate		
NOTE: 1. All weights and dimensions are subject to ±10% tolerance. However, overall weight & dimensions shall not exceed the maximum values as per the Technical Specification.			
2. Efficiency and regulation are calculated based on the guaranteed values of losses and impedance @ 75°C.			