

GUARANTEED TECHNICAL PARTICULARS FOR -AUX. TRANSFORMER

Aright Energy Private Limited
L-11, Green Park Extension, New Delhi 110016

Date:22.08.2024
Rev.00

Sl.No.	Description	UNIT	Parameter
1	Name of Manufacturer		Tesla Transformers Global Private Limited , Bhopal
2	General Description		Oil Cooled Auxiliary Transformers
3	Reference Standard		As Per IS : 2026
4	installation		Outdoor
5	Duty		Continuous
6	Application		Distribution (Voltage Step down)
7	Altitude	m	Less than equal to 1000 m
8	Rated Power	kVA	16
9	Rated No-Load Voltage Ratio (HV / LV) (+/- 10% Variation)	kV	11/ 0.415
9.1	HV I LV Current	A	0.839 / 22.25
10	Rated Frequency (+/- 3%)	Hz	50
11	Number of Phases	Nos.	3
12	Material of Winding (HV / LV)	--	Aluminum
13	Vector Group	--	Dyn11
14	Connection (HV / LV)	--	Delta / Star
15	Tapping		NA
16	Type of Tap Changer	--	NA
17	Tapping Range/Tap step	--	NA
18	No. of Steps	Nos.	NA
19	For HV Variation / LV Variation	--	NA
20	Class of Insulation	Class	A
21	Method of Cooling	--	ONAN
22	Avg. Temp. Rise of Winding (Oil / Winding) ambient temp. 50'C	Deg.C	35/40
23	Load Losses at 75 Deg. C @ 50%	kW	0.135
24	Load Losses at 75 Deg. C @ 50%	kW	0.440
24.1	%Impedance at Rated Current, at 75		4.5%
24.2	Deg. C & at Principal Tap (+ / - 10%IS Tol.)		
25	A. Reactance	%	4.8
	B. Resistance	%	2.05
26	No Load current at Rated Voltage and Frequency as % of Full Load Rated Current	%	3 % of full load current

27	Regulation at Full Load at 75 Deg. C		
	a) At Unity Power Factor	%	2.3259
	b) At 0.8 Power Factor (Lagging)	%	4.1539
28	Efficiencies at 75 Deg. C at Unity		
	Power Factor (Reference value)		
a	At Full Load	%	97.25
b	At 3/4 Full Load	%	97.65
c	At 1/2 Full Load	%	97.69
d	At 1/4 Full load	%	97.44
29	BIL (Insulation Level) :		75KVp/N.A.
31	Separate Source Power-Frequency Voltage Withstand (HV / LV)	kVrms	HV-28/ LV-03
32	Termination Arrangements		
32.1	HV		Bare Bushing
32.2	LV		Bare Bushing
33	Overload limit of transformer		
34	Weight of winding of transformer	kg	34
35	Dimension of Transformer (L x W x H)	mm	740 X 300 X 630
36	Color of Transformer		DARK GRAY / 632 OF IS : 5.
37	List of accessories to be supplied with transformer.		NA