

Technical Specifications

UE-PRJ-FR-14

Date:

24.11.2020

Characteristic Specifications

1.	Product Type		Indoor/Outdoor, Hermetically Sealed Transformer		
2.	Rated Power	kVA	100		
3.	Rated Voltages	kV	20,5 / 0,41		
4.	Tapping Range & No of Taps (HV, Off-Load Tap Changer)		5 Taps +2x%2,5 / -2x%2,5 19,475-19,988-20,5-21,013-21,525- kV		
5.	Number of Phases		3		
6.	Frequency	Hz	50		
7.	Connection Group		Dyn 11		
8.	Insulation Class		Class A		
9.	Insulation Levels		HV		LV
	i) One Minute Power Freq. Withstand Voltage	kV	50		3
	ii) Lightning Impulse Withstand Voltage	kV	125		-
10.	Max. Ambient Temperature	°C	40		
11.	Temperature Rise				
	i) Windings	K	65		
	ii) Oil	K	60		

Performance Specifications

12.	Manufacturing Standart		IEC 60076-1		
13.	No-Load Losses	Watt	145	+	0% Tolerance
14.	Load Losses	Watt	1750	+	0% Tolerance
15.	Total Losses	Watt	1895	+	0% Tolerance
16.	Impedance Voltages (at 75 °C and nom. pos.)	%	4	+	10% Tolerance
17.	Efficiency				
	Cos Φ= 1.0 (4 / 4)	%	98,140%		
	Cos Φ=0.8 (4 / 4)	%	97,686%		

Design Specifications

18.	Cooling Method		ONAN (with corrugated walls)		
19.	Oil Type		Mineral Oil as per IEC 60296		
20.	HV/LV Winding Materials		Aluminium		
21.	Core Type		Core - Cold Rolled Grain Oriented		
22.	Tank Cover		Bolted		
23.	Corrosion Category		C2 / Total Thickness: 105 micron		
24.	Paint		RAL:7033(without galvanising)		
25.	LV Bushings	1 kV 250 A EN (AP) 50386	Creepage: 55 mm	4 NOS	Porcelain On top cover Without flag
26.	HV Bushings	24 kV 250 A DIN 42531	Creepage: 480 mm	3 NOS	Porcelain On top cover

Weight & Dimensions

27.	Transformer Dimensions		Width	Length	Height
	Width x Length x Height	mm	759	939	1182
28.	Transformer Weights				
	i) Oil	kg	160		
	ii) Active Part	kg	440		
	iii) Total	kg	670		

Accessories

	Lifting Lugs , Earthing Terminals , Rating Plate , Oil Filling Valve , Oil Sampling&Drain Valve , Vertical Oil Level Indicator ,
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Notes

Weights and dimensions are approximate.
