

# Technical Specifications

UE-PRJ-FR-14

Date: 24.11.2020

## Characteristic Specifications

1.	Product Type	Indoor/Outdoor, Hermetically Sealed Transformer		
2.	Rated Power	kVA	30	
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	Yzn 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	74	+	0% Tolerance
14.	Load Losses	Watt	940	+	0% Tolerance
15.	Total Losses	Watt	1014	+	0% Tolerance
16.	Impedance Voltages (at 75 °C and nom. pos.)	%	4	+	10% Tolerance
17.	Efficiency				
	Cos Φ= 1.0 ( 4 / 4 )	%	96,731%		
	Cos Φ=0.8 ( 4 / 4 )	%	95,946%		

## 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 & Diemensions

27.	Transformer Dimensions	Width	Length	Height
	Width x Length x Height	mm	642	748
28.	Transformer Weights			
	i) Oil	kg	90	
	ii) Active Part	kg	220	
	iii) Total	kg	350	

## Accessories

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

## Notes

Weights and dimensions are approximate
--