

# Technical Specifications

UE-PRJ-FR-14

Date:

24.11.2020

## Characteristic Specifications

1.	Product Type	Indoor/Outdoor, Hermetically Sealed Transformer		
2.	Rated Power	kVA	500	
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	510	+ 0% Tolerance
14.	Load Losses (at 75 °C and nom. pos.)	Watt	5500	+ 0% Tolerance
15.	Total Losses	Watt	6010	+ 0% Tolerance
16.	Impedance Voltages (at 75 °C and nom. pos.)	%	4	+/- 10% Tolerance
17.	Efficiency			
	Cos Φ= 1.0 ( 4 / 4 )	%	98,812%	
	Cos Φ=0.8 ( 4 / 4 )	%	98,520%	

## 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 1250 A EN (AP) 5038€ Creepage: 75 mm	4 NOS	Porcelain On top cover Without flag
26.	HV Bushings	24 kV 250 A EN 50180 / IEI	3 NOS	Plug-in On top cover

## Weight & Dimensions

27.	Transformer Dimensions	Width	Length	Height
	Width x Length x Height	mm	859	1222
28.	Transformer Weights			
	i) Oil	kg	360	
	ii) Active Part	kg	1180	
	iii) Total	kg	1780	

## Accessories

	Lifting Lugs , Earthing Terminals , Rating Plate , Oil Filling Valve , Oil Sampling&Drain Valve , Thermometer Pocket X 2, Vertical Oil Level Indicator ,
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## Notes

Weights and dimensions are approximate and to be confirmed after PO.
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