

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 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	859	1222	1571
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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Weights and dimensions are approximate and to be confirmed after PO.
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