

## A. GENERAL CHARACTERISTICS

Design standards	:	IEC 76
Transformer type	:	Hermetically Sealed Totally Oil Filled
Service Condition	:	Indoor
Type of oil	:	Mineral Oil Class 1 acc. to IEC 296
Number of phase	:	3 Phase
Frequency	:	50 Hz

## B. TECHNICAL SPECIFICATION

Capacity	:	2000 kVA
Primary Voltage	:	20 kV
Secondary Voltage	:	0.4 kV
Vector Group	:	Dyn5
Cooling	:	ONAN
Temperature Rise - Oil	:	60 °C
- Winding	:	65 °C
No load losses at nominal voltage	:	2600 Watts
On load losses at principal tapping	:	21000 Watts
Impedance voltage	:	7 %
Off load current at nominal voltage	:	1.9 %
Temperature Insulation Class	:	A
Noise	:	61 dB
Off Circuit Tapping value	:	+/-2.5%; +/-5%

## C. INSULATION CLASS OF THE WINDINGS

	Primary	Secondary
Highest system voltage (kV)	24	1.1
Impulse test voltage (kV)	125	0
Applied test voltage (kV)	50	3

## D. EFFICIENCY AND VOLTAGE REGULATION

	Efficiency ( % )				Voltage Regulation	
	4/4 load	3/4 load	2/4 load	1/4 load	in Volt	in %
Pf 0.8	98.55	98.81	99.03	99.03	380	5.11
Pf 1.0	98.83	99.05	99.22	99.22	395	1.29

## E. APPROXIMATE WEIGHTS AND DIMENSION

Total length	:	2,120 mm
Total width	:	1,230 mm
Total height	:	1,815 mm
Weight of oil	:	1,030 kg
Weight of core and winding	:	1,970 kg
Total weight	:	4,250 kg
Approximate Drawing No.	:	
Painting Colour	:	Light Grey RAL 7032

The above dimensions and masses are approximate and provided to give a general description of our proposed transformer.

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## F. ACCESSORIES

- Name Plate and Rating Plate
- HV Plug in Bushings and LV Porcelain Bushings
- Off Circuit Tap Changer
- Oil Filling Valve
- Oil Draining Valve
- Lifting Lugs
- Grounding Terminal
- Bidirectional Rollers
- Pressure Relief Device Without Contact
- Protection Relay RIS

## G. DEVIATIONS / EXCEPTIONS

- None

## H. NOTES

- None

## I. LIST OF TEST

Routine Test :

	Yes	No
- Measurement of the resistance value and checking of polarities :	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Measurement of the ratio on all taps :	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- No load test for measurement of the no load loss and no load current :	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Short circuit test for determination of the on load loss and impedance :	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Applied voltage test :	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Induced voltage test :	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Type test :

- Temperature rise test :	<input type="checkbox"/>	<input checked="" type="checkbox"/>
- Full wave impuls test ( 1.2 / 50 us ) :	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Tests other than the above mentioned list needs further confirmation**

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