

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	:	400	kVA
Primary Voltage	:	20	kV
Secondary Voltage	:	0.4	kV
Vector Group	:	Dyn5	
Cooling	:	ONAN	
Temperature Rise - Oil	:	60	oC
- Winding	:	65	oC
No load losses at nominal voltage	:	925	Watts
On load losses at principal tapping	:	6100	Watts
Impedance voltage	:	4	%
Off load current at nominal voltage	:	1.9	%
Temperature Insulation Class	:	A	
Noise	:	56	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	97.85	98.22	98.49	98.39	386	3.46
Pf 1.0	98.27	98.57	98.79	98.71	394	1.59

E. APPROXIMATE WEIGHTS AND DIMENSION

Total length	:	1,530	mm
Total width	:	840	mm
Total height	:	1,440	mm
Weight of oil	:	280	kg
Weight of core and winding	:	680	kg
Total weight	:	1,175	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 Plug
- 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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