

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	:	3500 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	:	4000 Watts
On load losses at principal tapping	:	32500 Watts
Impedance voltage	:	7 %
Off load current at nominal voltage	:	1.7 %
Temperature Insulation Class	:	A
Noise	:	62 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	98.71	98.95	99.14	99.15	380	5.03
Pf 1.0	98.97	99.16	99.31	99.32	395	1.17

E. APPROXIMATE WEIGHTS AND DIMENSION

Total length	:	2,460 mm
Total width	:	1,450 mm
Total height	:	2,215 mm
Weight of oil	:	1,913 kg
Weight of core and winding	:	3,527 kg
Total weight	:	7,667 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.

Revision	Original		Client / Project:	
Date	21-Oct-04		STANDARD 3500kVA (Indoor)	No : D 0298
Est.	FAL			Page : 1 / 2
Chk				
App.				

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

Revision	Original		Client / Project: STANDARD 3500kVA (Indoor)	No	:	D 0298
Date	21-Oct-04			Page	:	2 / 2
Est.	FAL					
Chk						
App.						