TECHNICAL SPECIFICATIONS

Jakarta - Indonesia

Schneider Electric

A. GENERAL CHARACTERISTICS

Design standars	:	IEC 67	
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	:	2500	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	:	2900	Watts
On load losses at principal tapping	:	33800	Watts
Impedance voltage	:	7	%
Off load current at nominal voltage	:	1.8	%
Temperature Insulation Class	:	A	
Noise	:	62	dB
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	98.20	98.56	98.88	99.01	379	5.31
Pf 1.0	98.55	98.84	99.10	99.20	394	1.59

E. APPROXIMATE WEIGHTS AND DIMENSION

Total length	:	2,220	mm
Total width	:	1,480	mm
Total height	:	2,135	mm
Weight of oil	:	1,190	kg
Weight of core and winding	:	1,940	kg
Total weight	:	4,705	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:	No : D 11903
Date	24-Sep-12			Page : 1 / 2
Est.	DWY			
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 With Contact
- Protection Relay RIS
- Fins Type Radiator

G. DEVIATIONS / EXCEPTIONS

- None

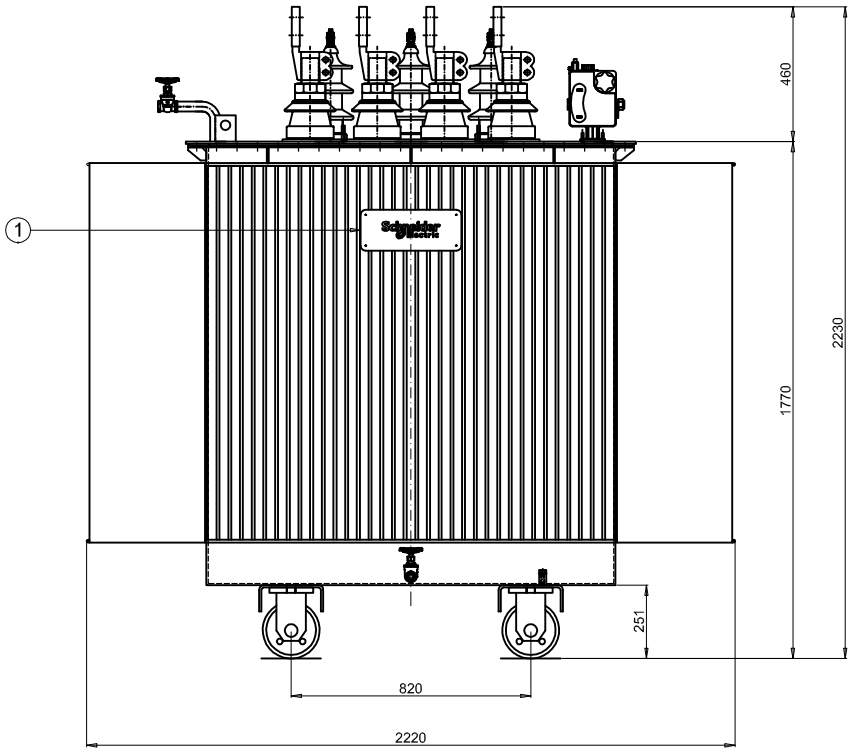
H. NOTES

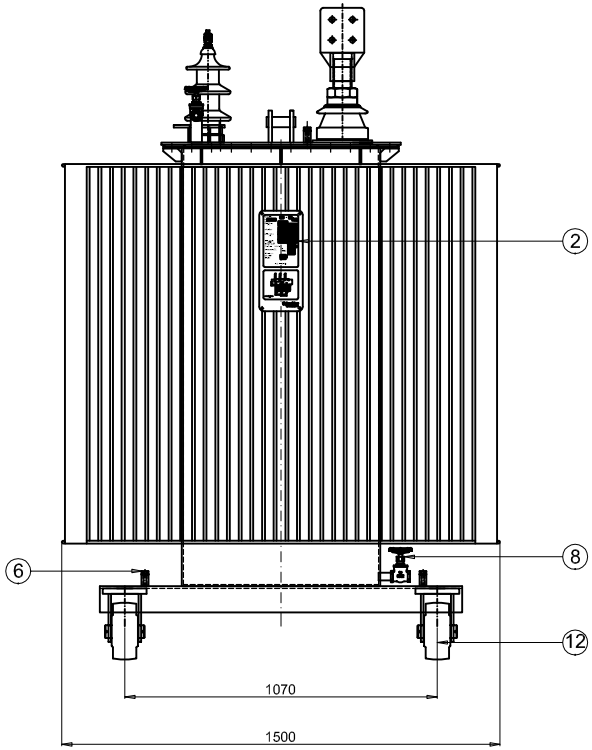
- None

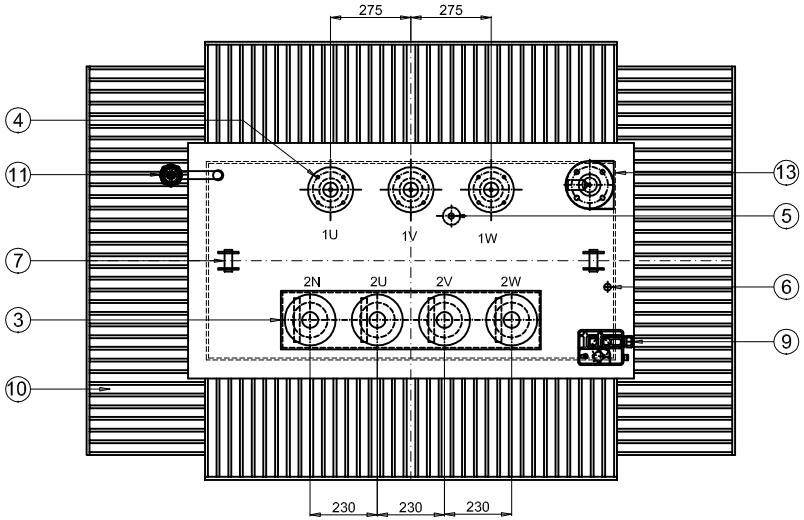
I. LIST OF TEST

		Yes	No
Routine Test :			
- Measurement of the resistance value and checking of polarities	:	√	
- Measurement of the ratio on all taps	:	√	
- No load test for measurement of the no load loss and no load current	:	√	
- Short circuit test for determination of the on load loss and impedance	:	√	
- Applied voltage test	:	√	
- Induced voltage test	:	√	
Type test :			
- Temperature rise test	:		√
- Full wave impuls test (1.2 / 50 us)	:		√

Tests other than the above mentioned list needs further confirmation







NOTES :

1. NAME PLATE
2. RATING PLATE
3. LV BUSHINGS
4. HV BUSHINGS
5. OFF CIRCUIT TAP CHANGER
6. EARTHING TERMINAL
7. LIFTING LUGS
8. DRAINING VALVE
9. PROTECTION RELAY RIS
10. RADIATOR
11. FILLING VALVE
12. BI DIRECTIONAL ROLLER
13. PRESSURE RELIEF DEVICE WITHT CONTACT

ELECTRICAL CHARACTERISTICS

TYPE	:	OUTDOOR / ONAN
RATING	:	2500 kVA
PRIMARY VOLTAGE	:	20 kV ± 2.5%, ±5%
SECONDARY VOLTAGE	:	0.4 KV
VECTOR GROUP	:	Dyn5
APPR WEIGHT	:	5280 KG.
OIL WEIGHT	:	1420 KG.

DATE	REMARKS	SIGN

PROJECT: PRIVATE C49

TITLE: OUTLINE DRAWING
TRANSFORMER 2500 kVA

SCALE	-	DATE
DRAWN BY	Brw	24-July-2012
CHECKED BY	Eka	
APPROVED BY	Slglt M	
Dlstrlbutlon Transformer		

Schneider Electric

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