



TECHNICAL SPECIFICATIONS

Jakarta - Indonesia



A. GENERAL CHARACTERISTICS

Design standards : 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 : 630 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 : 1200 Watts
 On load losses at principal tapping : 8500 Watts
 Impedance voltage : 4 %
 Off load current at nominal voltage : 1.8 %
 Temperature Insulation Class : A
 Noise : 56 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	98.11	98.44	98.70	98.64	387	3.36
Pf 1.0	98.48	98.75	98.96	98.91	394	1.42

E. APPROXIMATE WEIGHTS AND DIMENSION

Total length : 1,480 mm
 Total width : 1,020 mm
 Total height : 1,565 mm
 Weight of oil : 340 kg
 Weight of core and winding : 870 kg
 Total weight : 1,570 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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Est.	SGT			
Chk				
App.				



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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 :

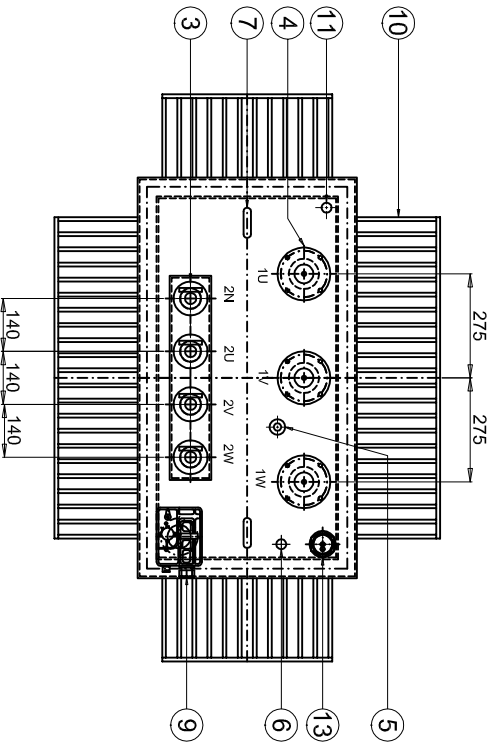
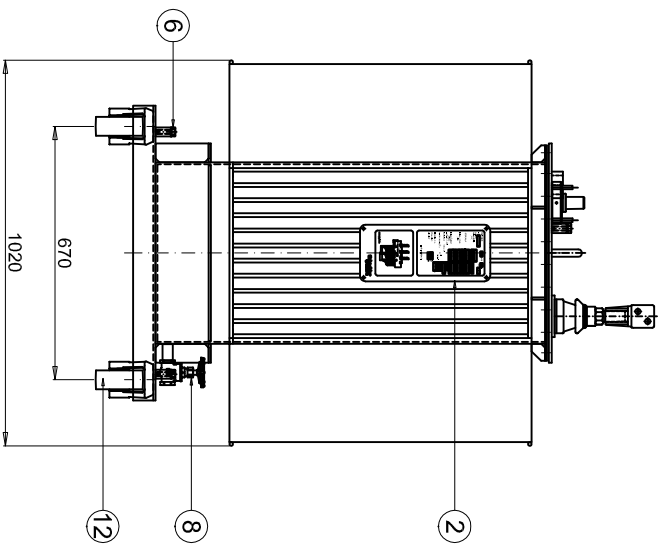
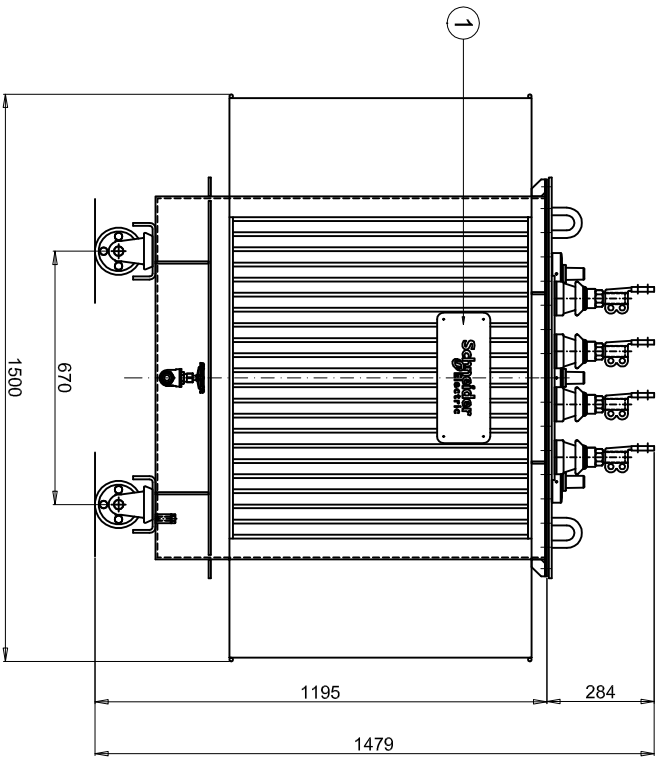
- | | Yes | No |
|--|-------------------------------------|--------------------------|
| - Measurement of the resistance value and checking of polarities : | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| - Measurement of the ratio on all taps : | <input checked="" type="checkbox"/> | <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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NOTES :

1. NAME PLATE
2. RATING PLATE
3. LV BUSHINGS
4. HV PLUG IN 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 WITHOUT CONTACT

ELECTRICAL CHARACTERISTICS

TYPE	: OUTDOOR / ONAN
RATING	: 630 KVA
PRIMARY VOLTAGE	: 20 KV ± 2.5%, ±5%
SECONDARY VOLTAGE	: 0.4 KV
VECTOR GROUP	: Dyn5
APPR WEIGHT	: 1550 KG.
OIL WEIGHT	: 350 KG.

PROJECT																				
TITLE																				
REMARKS																				
SIGN																				
DATE																				
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">PRIVATE C49</td> <td style="width: 50%;">SCALE</td> </tr> <tr> <td>OUTLINE DRAWING</td> <td>DRAWN BY</td> </tr> <tr> <td>TRANSFORMER 630 KVA</td> <td>CHECKED BY</td> </tr> <tr> <td></td> <td>APPROVED BY</td> </tr> <tr> <td></td> <td>Distribution Transformer</td> </tr> </table>											PRIVATE C49	SCALE	OUTLINE DRAWING	DRAWN BY	TRANSFORMER 630 KVA	CHECKED BY		APPROVED BY		Distribution Transformer
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