



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 : 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 : 950 Watts
 On load losses at principal tapping : 6000 Watts
 Impedance voltage : 4 %
 Off load current at nominal voltage : 1.9 %
 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 | 97.87 | 98.23 | 98.49 | 98.37 | 386 | 3.45 |
| Pf 1.0 | 98.29 | 98.58 | 98.79 | 98.69 | 394 | 1.57 |

E. APPROXIMATE WEIGHTS AND DIMENSION

Total length : 1,320 mm
 Total width : 900 mm
 Total height : 1,525 mm
 Weight of oil : 320 kg
 Weight of core and winding : 590 kg
 Total weight : 1,330 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. | CON | | | |
| 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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