



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 : 2000 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 : 2500 Watts
 On load losses at principal tapping : 28000 Watts
 Impedance voltage : 7 %
 Off load current at nominal voltage : 1.9 %
 Temperature Insulation Class : A
 Noise : 61 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	98.13	98.50	98.83	98.95	379	5.34
Pf 1.0	98.50	98.80	99.06	99.16	393	1.64

E. APPROXIMATE WEIGHTS AND DIMENSION

Total length : 2,180 mm
 Total width : 1,340 mm
 Total height : 2,065 mm
 Weight of oil : 1,150 kg
 Weight of core and winding : 1,660 kg
 Total weight : 4,360 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 Valve
- Oil Draining Valve
- Lifting Lugs
- Grounding Terminal
- Protection Relay RIS
- Pressure Relief Device Without Contact

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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