



Transformer Technical Data Sheet

EGTRA/TEC/01/02

10th RAMADAN CITY - EGYPT

Date	: Thursday, September 10, 2020	Registration No	: ORN 200063
Customer / Project Name	: ABB Cote D'Ivoire	ABB Design Code	: TOA-1000/36XFSR

General Specification

Transformer Type	3-Phase Distribution Oil Immersed Transformer		
Oil Filling Standard	Class A Mineral Oil acc. To IEC 296		
Installation	IEC 60076		
Type Of Oil Sealing	Outdoor		
Phase	Hermetically Sealed		
Frequency [Hz]	3		
Vector group	50		
Type of cooling	Dyn11		
Terminals Protection degree	ONAN		
Altitude (below -) [m]	IP00		
Ambient Temperature [°C]	1000		
Average Oil Temperature rise [K]	40		
Average Winding Temperature rise [K]	60		
Winding	Primary	Secondary	
Rated Power [kVA]	1000	1000	
Rated Voltage [V]	33000	410	
Maximum systgem Voltage [kV]	36	1.1	
BIL (Basic Impulse Withstand Level) [kV]	170	10	
Power Frequency withstand Level [kV]	70	3	
Tapping (Off circuit tap changer)	+2/-2 steps X 2.5 %	-	
Connections	DELTA	WYE	
Insulation class	A	A	
Conductor Material	Aluminuim	Aluminuim	

Guaranteed Performance Data @75°C

No load loss [W]	1750	(+15% Tolerance)
Load loss [W]	11500	(+15% Tolerance)
Total loss [W]	13250	(+10% Tolerance)
Impedance [%]	6	(±10% Tolerance)

Overall Dimension & Weight

Length [mm]	1780	(±10% allowance)
Width [mm]	1114	(±10% allowance)
Height [mm]	1621	(±10% allowance)
Oil Weight [kg]	658	(±10% allowance)
Total Weight [kg]	3021	(±10% allowance)

Accessories

- Rating plate , Lifting Lug , Drain Plug , Tanking Earth , Off-Load Tap Changer	
- Bi-directional Roollers-(Diameter,C-C)	: 160 mm, 820 mm
- High Voltage Bushing	: Plug In 36KV/400A
- Low Voltage Bushing	: Bus Bar Bushing - BT1/1600A
- Pressure Relief Device	
- DGPT2	

Notes

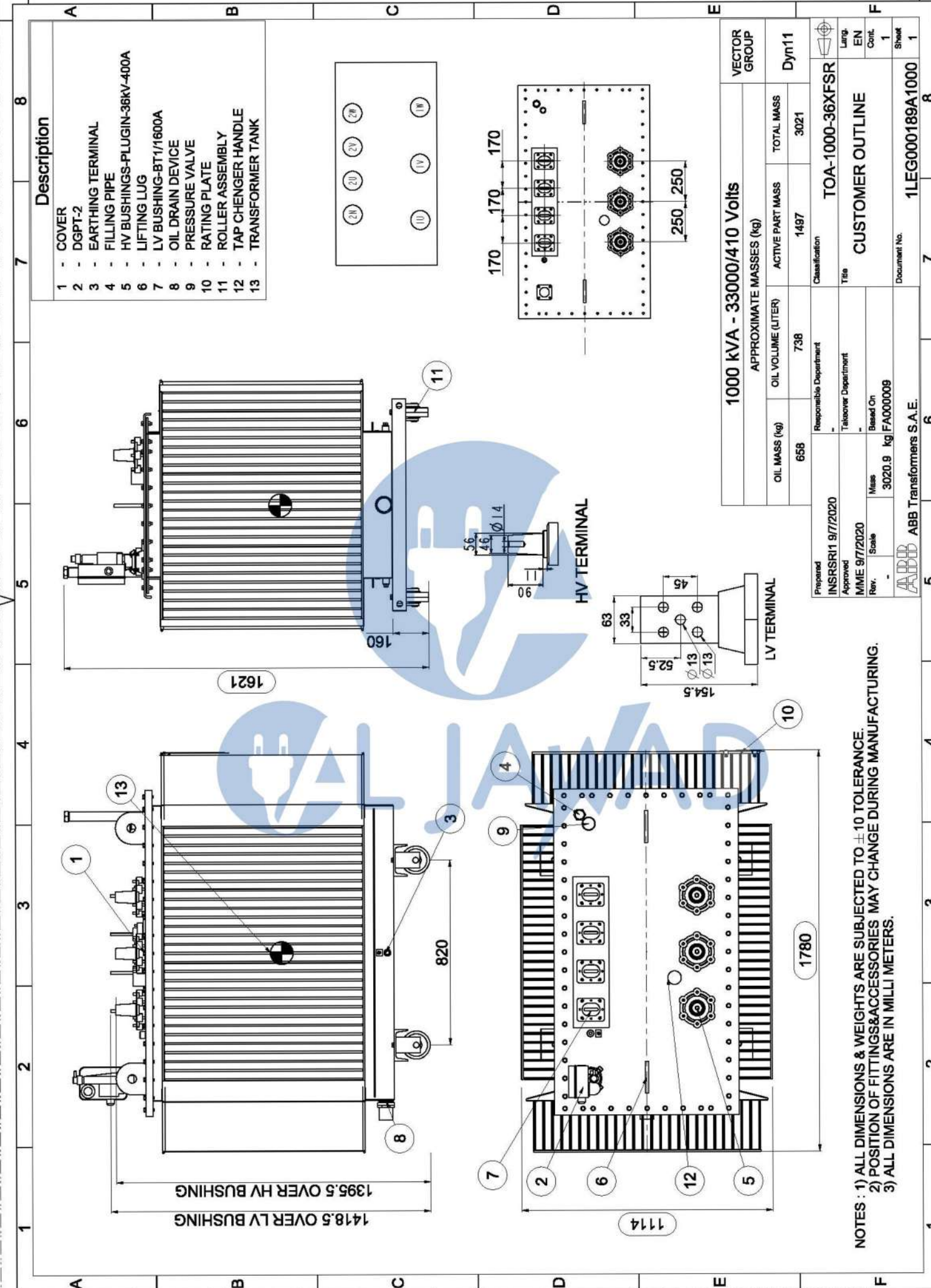
- Other accessories which are not mentioned in the above statements are not included.
- Tests: Routine tests according IEC standard.
- The tolerances for all guaranteed values are subject to IEC standard.
- If no other standards or rules are specified, transformers are manufactured according to IEC standard.

Issued by : M.Abdel Meguid

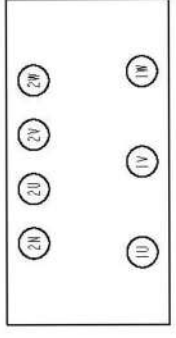
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Description	
1	- COVER
2	- DGPT-2
3	- EARTHING TERMINAL
4	- FILLING PIPE
5	- HV BUSHINGS-PLUGIN-38KV-400A
6	- LIFTING LUG
7	- LV BUSHING-BT1/1600A
8	- OIL DRAIN DEVICE
9	- PRESSURE VALVE
10	- RATING PLATE
11	- ROLLER ASSEMBLY
12	- TAP CHANGER HANDLE
13	- TRANSFORMER TANK



APPROXIMATE MASSES (kg)		VECTOR GROUP	
OIL MASS (kg)	658	TOTAL MASS	3021
OIL VOLUME (LITER)	738	ACTIVE PART MASS	1497
1000 kVA - 33000/410 Volts		Dyn11	

Classification	
Responsible Department	TOA-1000-36XFSR
Takeover Department	CUSTOMER OUTLINE

Title	
Prepared	INSRSR1 9/7/2020
Approved	MME 9/7/2020
Rev.	Scale
Miss	Based On
3020.9 kg	FA000009

Document No.	
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NOTES : 1) ALL DIMENSIONS & WEIGHTS ARE SUBJECTED TO ±10 TOLERANCE.
 2) POSITION OF FITTINGS&ACCESSORIES MAY CHANGE DURING MANUFACTURING.
 3) ALL DIMENSIONS ARE IN MILLI METERS.