



# 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-630/24XDSR

## General Specification

Transformer Type	3-Phase Distribution Oil Immersed Transformer		
Oil Filling	Class A Mineral Oil acc. To IEC 296		
Standard	IEC 60076		
Installation	Outdoor		
Type Of Oil Sealing	Hermetically Sealed		
Phase	3		
Frequency [Hz]	50		
Vector group	Dyn11		
Type of cooling	ONAN		
Terminals Protection degree	IP00		
Altitude (below -) [m]	1000		
Ambient Temperature [°C]	40		
Average Oil Temperature rise [K]	60		
Average Winding Temperature rise [K]	65		
Winding	Primary	Secondary	
Rated Power [kVA]	630	630	
Rated Voltage [V]	15000	410	
Maximum systgem Voltage [kV]	24	1.1	
BIL (Basic Impulse Withstand Level) [kV]	125	10	
Power Frequency withstand Level [kV]	50	3	
Tapping (Off circuit tap changer)	+2/-2 steps X 2.5 %	-	
Connections	DELTA	WYE	
Insulation class	A	A	
Conductor Material	Aluminium	Aluminium	

## Guaranteed Performance Data @75°C

No load loss [W]	1300	(+15% Tolerance)
Load loss [W]	6500	(+15% Tolerance)
Total loss [W]	7800	(+10% Tolerance)
Impedance [%]	4	(±10% Tolerance)

## Overall Dimension & Weight

Length [mm]	1505	(±10% allowance)
Width [mm]	939	(±10% allowance)
Height [mm]	1477	(±10% allowance)
Oil Weight [kg]	382	(±10% allowance)
Total Weight [kg]	1900	(±10% allowance)

## Accessories

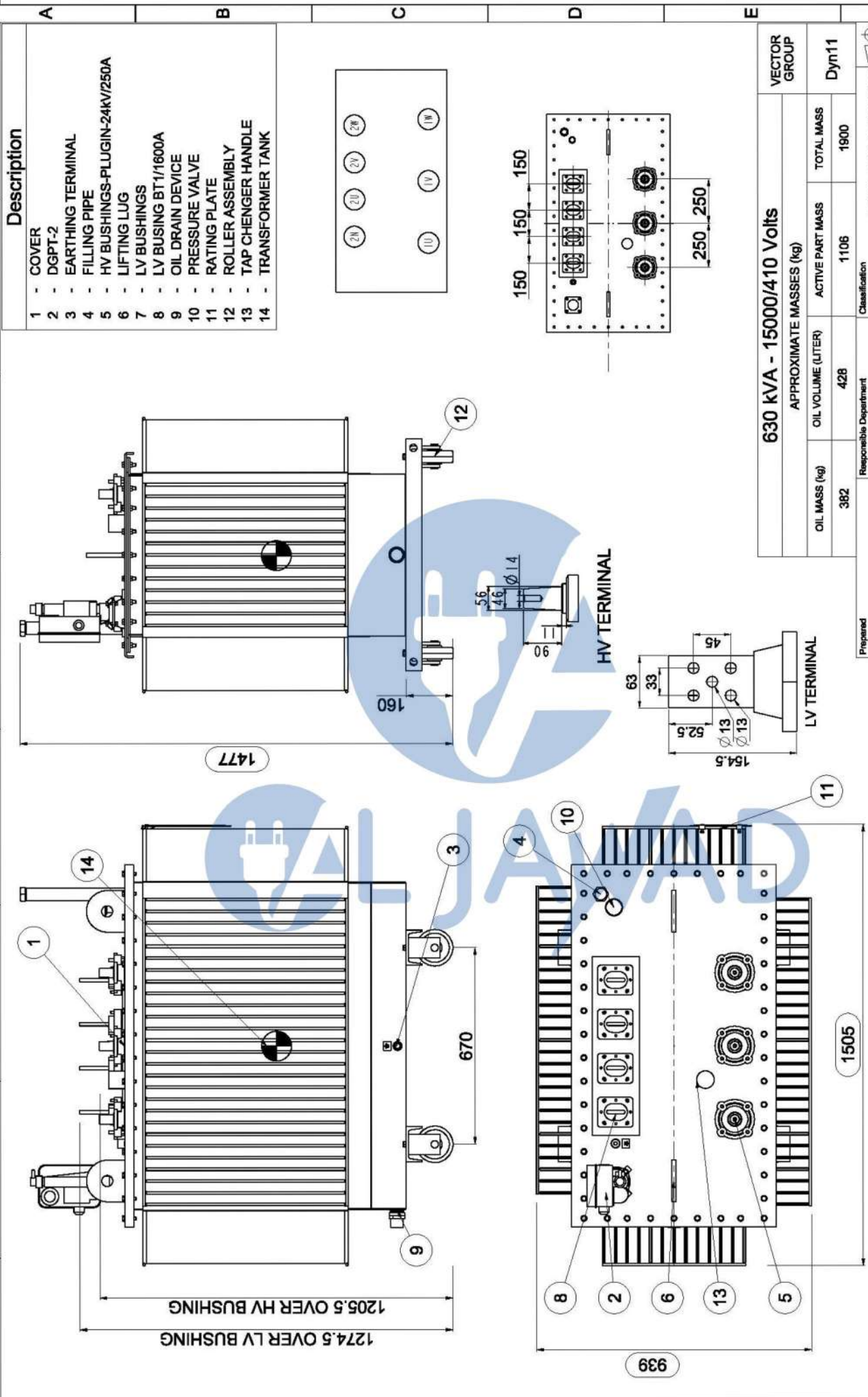
- Rating plate , Lifting Lug , Drain Plug , Tanking Earth , Off-Load Tap Changer
- Bi-directional Roollers-(Diameter,C-C) : 125 mm, 670 mm
- High Voltage Bushing : Plug In 24KV/250A
- Low Voltage Bushing : Bus Bar Bushing - BT1/1600A
- Pressure Relief Device
- DGPT2

## Notes

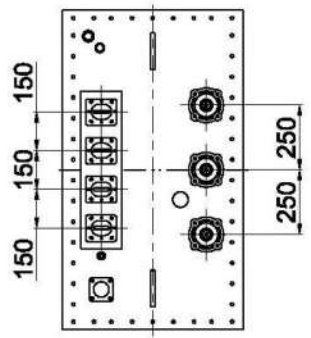
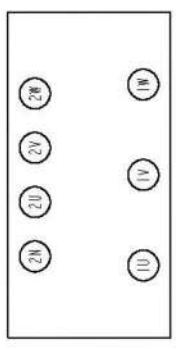
- Other accessories which are not mentioned in the above statements are not included.
- Tests: Routine tests according IEC standard.
- The tolerances for all guaranteed values are subject to IEC standard.
- If no other standards or rules are specified, transformers are manufactured according to IEC standard.

Issued by : M.Abdel Meguid

Signature : MAM



Description	
1	- COVER
2	- DGPT-2
3	- EARTHING TERMINAL
4	- FILLING PIPE
5	- HV BUSHINGS-PLUGIN-24KV/250A
6	- LIFTING LUG
7	- LV BUSHINGS
8	- LV BUSING BT1/1600A
9	- OIL DRAIN DEVICE
10	- PRESSURE VALVE
11	- RATING PLATE
12	- ROLLER ASSEMBLY
13	- TAP CHANGER HANDLE
14	- TRANSFORMER TANK



VECTOR GROUP		APPROXIMATE MASSES (kg)	
Dyn11		OIL MASS (kg)	382
		OIL VOLUME (LITER)	428
		ACTIVE PART MASS	1106
		TOTAL MASS	1800

Classification		Title	
TOA-630-24XDSR		CUSTOMER OUTLINE	

Responsible Department		Telephone Department	
P. SATRUPINAS		R. DAVIES	
Prepared	Approved	Mass	Based On
		1899.8 kg	FA000009

Document No.		Sheet	
1LEG000127A630		1	

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.