



# Transformer Technical Data Sheet

EGTRA/TEC/01/02  
10th RAMADAN CITY - EGYPT

Date	: Thursday, September 10, 2020	Registration No	: ORN 200063
Customer / Project Name	: <b>ABB Cote D'Ivoire</b>	ABB Design Code	: TOA-800/36XFSR

## 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	Hemetically 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]	800	800	
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]	1500	(+15% Tolerance)
Load loss [W]	10000	(+15% Tolerance)
Total loss [W]	11500	(+10% Tolerance)
Impedance [%]	5.5	(±10% Tolerance)

## Overall Dimension & Weight

Length [mm]	1720	(±10% allowance)
Width [mm]	1074	(±10% allowance)
Height [mm]	1619	(±10% allowance)
Oil Weight [kg]	565	(±10% allowance)
Total Weight [kg]	2530	(±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

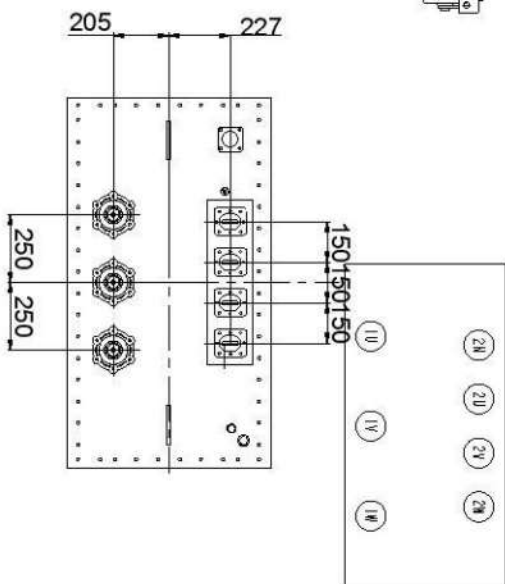
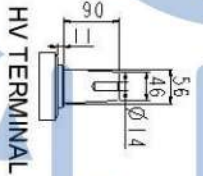
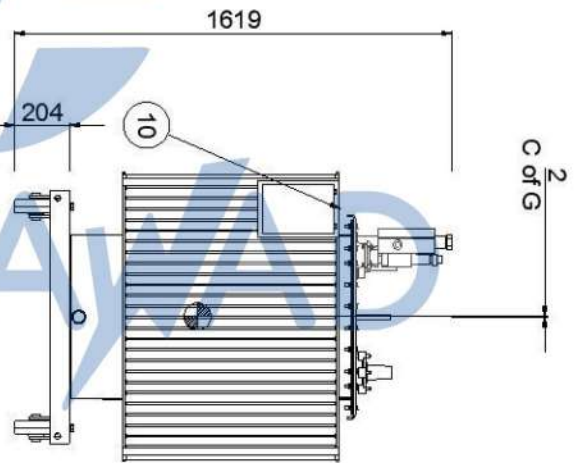
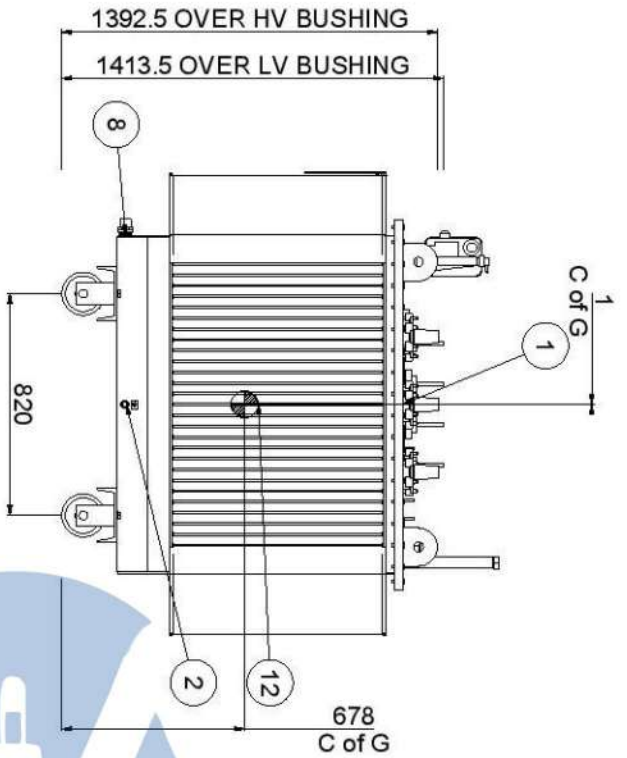
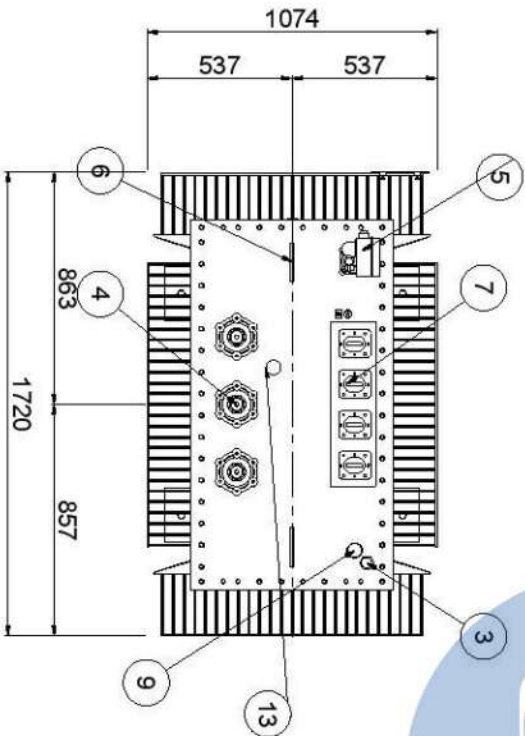
- Other accessories which are not mentioned in the above statements are not included.
- Tests: Routine tests according IEC standard.
- The tolerances for all guaranteed values are subject to IEC standard.
- If no other standards or rules are specified, transformers are manufactured according to IEC standard.

Issued by : M.Abdel Meguid

Signature : MAM

Site web : [www.aljawad.ci](http://www.aljawad.ci) | Email : [aljawad@aljawad.ci](mailto:aljawad@aljawad.ci)

(+225) 27 21 25 35 27



1	COVER
2	EARTHING TERMINAL
3	FILLING PIPE
4	HV BUSHINGS
5	INTEGRATED PROTECTIVE DEVICE
6	LIFTING LUG
7	LV BUSHINGS
8	OIL DRAIN DEVICE
9	PRESSURE VALVE
10	RATING PLATE
11	ROLLER ASSEMBLY
12	TRANSFORMER TANK
13	TAP CHANGER

800 kVA - 33000/410 Volts		VECTOR GROUP
APPROXIMATE MASSES (kg)		
OIL MASS (kg)	OIL VOLUME (LITER)	TOTAL MASS
565	633	2530
ACTIVE PART MASS		Dyn11
1278		

Prepared	EGAHZAK 9/8/2020	Responsible Department	
Approved	ARM 9/8/2020	Takeover Department	
Rev.	Scale	Mass	Based On
		2530.0 kg FA000009	
Title		Classification	
CUSTOMER OUTLINE		1278	
Document No.		Lang	
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Zone	Rev.	Description	Date	Approved