



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-800/24XDSR

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]	800	800	
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	Aluminuim	Aluminuim	

Guaranteed Performance Data @75°C

No load loss [W]	1600	(+15% Tolerance)
Load loss [W]	7500	(+15% Tolerance)
Total loss [W]	9100	(+10% Tolerance)
Impedance [%]	5	(±10% Tolerance)

Overall Dimension & Weight

Length [mm]	1615	(±10% allowance)
Width [mm]	1014	(±10% allowance)
Height [mm]	1581	(±10% allowance)
Oil Weight [kg]	445	(±10% allowance)
Total Weight [kg]	2250	(±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 24KV/250A
- Low Voltage Bushing : Bus Bar Bushing - BT1/1600A
- Pressure Relief Device
- DGPT2

Notes

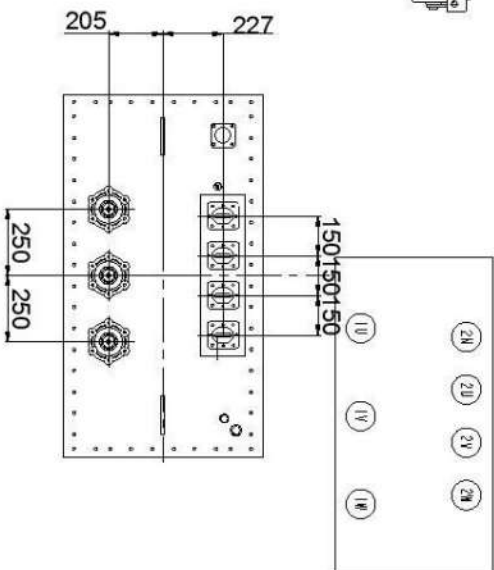
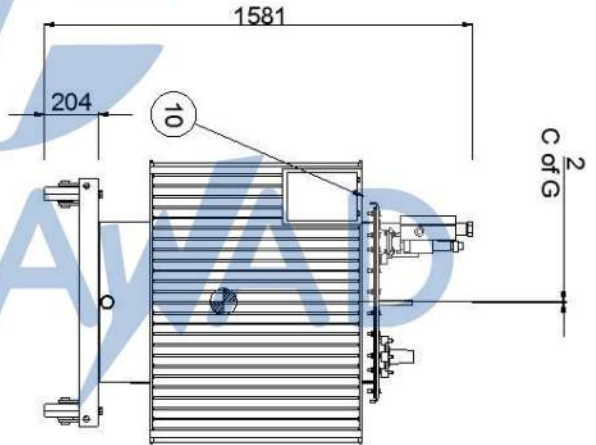
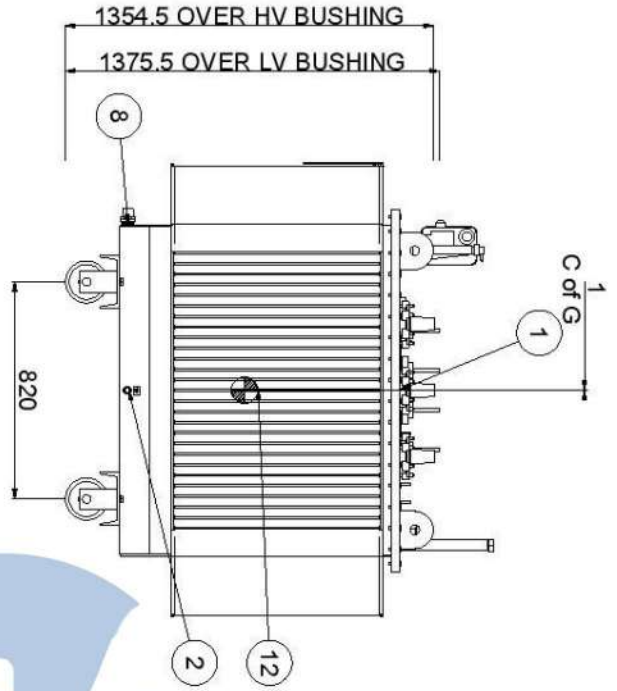
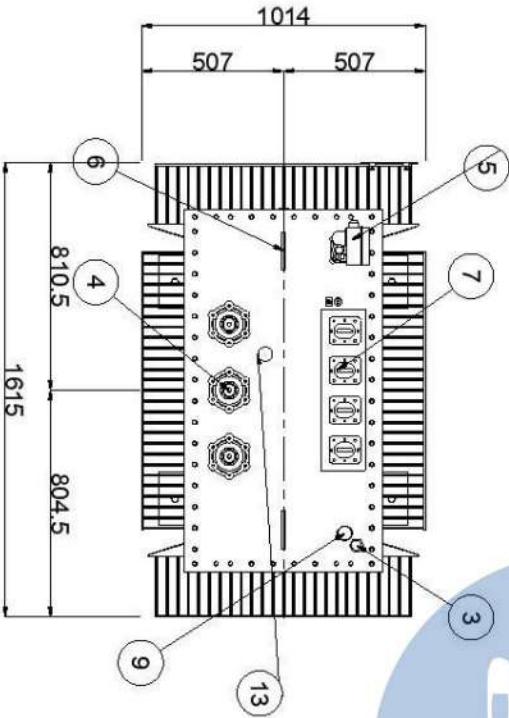
- Other accessories which are not mentioned in the above statements are not included.
- Tests: Routine tests according IEC standard.
- The tolerances for all guaranteed values are subject to IEC standard.
- If no other standards or rules are specified, transformers are manufactured according to IEC standard.

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

800 kVA - 15000/410 Volts		VECTOR GROUP	
APPROXIMATE MASSES (kg)		DYN11	
OIL MASS (kg)	OIL VOLUME (LITER)	ACTIVE PART MASS	TOTAL MASS
445	452	1225	2250

Prepared	EGAHZAK 9/8/2020	Responsible Department	
Approved	ARM 9/8/2020	Takeover Department	
Rev.	Scale	Mass	Based On
		2250 kg	FA000009
Title		Classification	
CUSTOMER OUTLINE			

Zone	Rev.	Description	Date	Approved	Document No.	Sheet
					1LEG000069A800	1