



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-400/24XDSR

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	Dyn 11		
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]	400	400	
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]	930	(+15% Tolerance)
Load loss [W]	4600	(+15% Tolerance)
Total loss [W]	5530	(+10% Tolerance)
Impedance [%]	4	(±10% Tolerance)

Overall Dimension & Weight

Length [mm]	1305	(±10% allowance)
Width [mm]	854	(±10% allowance)
Height [mm]	1442	(±10% allowance)
Oil Weight [kg]	299	(±10% allowance)
Total Weight [kg]	1386	(±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

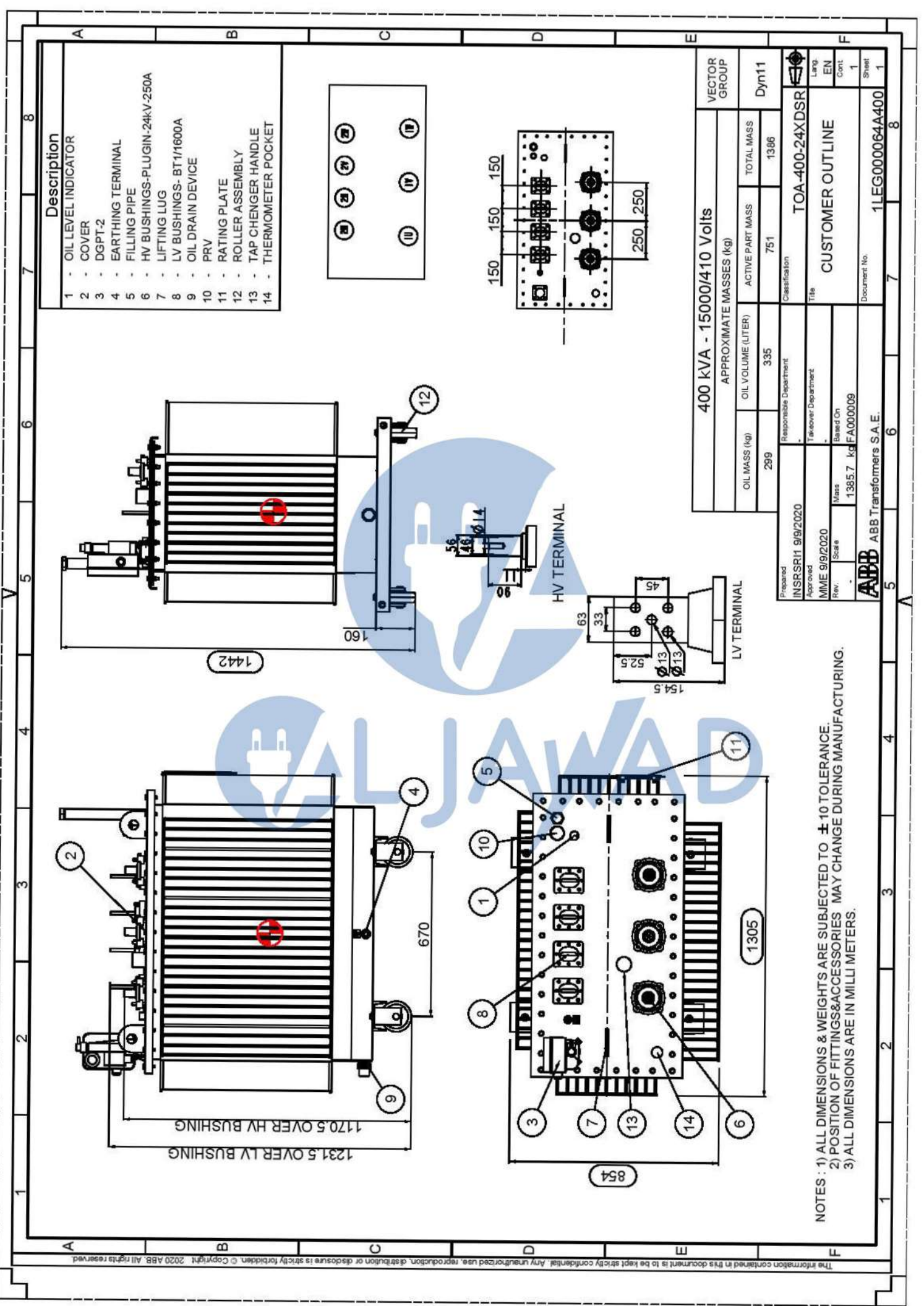
- Other accessories which are not mentioned in the above statements are not included.
- Tests: Routine tests according IEC standard.
- The tolerances for all guaranteed values are subject to IEC standard.
- If no other standards or rules are specified, transformers are manufactured according to IEC standard.

Issued by : M.Abdel Meguid

Signature : MAM

Site web : www.aljawad.ci | Email : aljawad@aljawad.ci

(+225) 27 21 25 35 27



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

400 kVA - 15000/410 Volts		VECTOR GROUP
APPROXIMATE MASSES (kg)		Dyn11
OIL MASS (kg)	299	
OIL VOLUME (LITER)	335	
ACTIVE PART MASS	751	
TOTAL MASS	1386	

Prepared	INSRSR11 9/9/2020	Responsible Department	TOA-400-24XDSR
Approved	MME 9/9/2020	Take-over Department	CUSTOMER OUTLINE
Rev.	Scale	Mass	Document No.
		1385.7 kg	1LEG000064A400
		Based On	Sheet
		FA000009	1
		ABB ABB Transformers S.A. E.	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.