

## Transformer Technical Data Sheet

EGTRA/TEC/01/02

10th RAMADAN CITY - EGYPT

Date : Sunday, October 11, 2020 Registration No : ORN\_200116

Customer / Project Name : Cote d'Ivoire ABB Design Code : TOC-160-36XDSR

## General Specification

ransformer Type		3-Phase Distribution Oil Immersed Transformer		
Dil Filling		Class A Mineral Oil acc. To IEC 296		
ndard		IEC 60076		
nstallation		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]	160	160	
Rated Voltage	[V]	33000	410	
Maximum systgem Voltage	[kV]	36	1.1	
BIL (Basic Impulse Withstand Level)	[kV]	170	¥	
Power Frequency withstand Level	[kV]	70	3	
Tapping (Off circuit tap changer)	+2	1-2 steps X 2.5 %	U¥	
Connections		DELTA	WYE	
Insulation class		A	A	
Conductor Material		Copper	Copper	

# Guaranteed Performance Data @75°C

Committee : criterinance Data C. C.			
No load loss	[W]	590	(+15% Tolerance)
Load loss	[W]	2820	(+15% Tolerance)
Total loss	[W]	3410	(+10% Tolerance)
Impedance	[%]	4.5	(±10% Tolerance)

Overall Dimension & Weight

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Length		[mm]	1269	(±10% allowance)
Width		[mm]	794	(±10% allowance)
Height		[mm]	1407	(±10% allowance)
Oil Weight		[kg]	215	(±10% allowance)
Total Weight		[kg]	835	(±10% allowance)

### Accessories

- Rating plate , Lifting Lug , Drain with sampling device , Tanking Earth , Off-Load Tap Changer

Bi-directional Roollers-(Diameter, C-C) : Pole mounted / 520 mm

- High Voltage Bushing : Porcelain Bushing - DT30NF/250A
- Low Voltage Bushing : Porcelain Bushing - DT1/250A

- OIL Level Idicator

- Dial Type Thermometer with max. Pointer

- Pressure Relief Valve

#### 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: Ashraf Mobarak Signature:

