



Transformer Technical Data Sheet

EGTRA/TEC/01/02

10th RAMADAN CITY - EGYPT

Date : Sunday, September 27, 2020

Registration No : ORN_200109

Customer / Project Name : Cote d'Ivoire

ABB Design Code : TOC-100-36XFSR

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	Hermetically-Sealed		
Phase	3		
Frequency [Hz]	50		
Vector group	Yzn11		
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]	100	100	
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/-2 steps X 2.5 %	-	
Connections	DELTA	WYE	
Insulation class	A	A	
Conductor Material	Copper	Copper	

Guaranteed Performance Data @75°C

No load loss [W]	390	(+15% Tolerance)
Load loss [W]	2280	(+15% Tolerance)
Total loss [W]	2670	(+10% Tolerance)
Impedance [%]	4.5	(±10% Tolerance)

Overall Dimension & Weight

Length [mm]	1269	(±10% allowance)
Width [mm]	794	(±10% allowance)
Height [mm]	1486	(±10% allowance)
Oil Weight [kg]	225	(±10% allowance)
Total Weight [kg]	825	(±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.