



# Transformer technical data sheet

Project No:	-	ABB Design No:	TOA-630-24DXCO
Project Name:	-	Refer. Quotation No:	
Customer:	CIABB	Customer Spec.:	

Rev.	Issued	Approved	Date	Description
0	Yara Tammam	Ashraf Mobarak	10/7/2021	Issue

General Specification					
Transformer Type		Oil Immersed Transformer-	Distribution		
Standard		IEC60076			
Installation		Outdoor			
Expansion Method		Hermetically Sealed			
Oil type		Oil - Mineral - General			
Phase		3			
Frequency	[Hz]	50			
Vector group		Dyn11			
Type of cooling		ONAN			
Altitude (below -)	[m]	1000			
Insulation class		A			
Ambient Temperature (Max)	[ °C ]	40			
Average Oil Temperature rise	[K]	60			
Average Winding Temperature rise	[K]	65			
Winding			Primary	Primary	Secondary
Rated Power	[kVA]		630	630	630
Rated Voltage @ No load	[V]		20000	15000	400
Maximum system Voltage	[kV]		24	24	1.1
BIL (Basic Impulse Withstand Level)	[kV]		125	125	-
Power Frequency withstand Level	[kV]		50	50	3
Tapping (Off circuit tap changer)			+2x2.5%-2x2.5%	+2x3.33%-2x3.33%	-
Connections			DELTA	DELTA	WYE
Conductor Material			AL	AL	AL
<b>Guaranteed Performance Data</b>		at Nominal Tap, 75@°C	Guaranteed Values@20/0.4Kv-50HZ		
No load loss	[W]	1350	(+15% Tolerance)		
Load loss	[W]	7500	(+15% Tolerance)		
Total loss	[W]	8850	(+10% Tolerance)		
Impedance	[%]	5	(±10% Tolerance)		
<b>Preliminary Dimensions, approximately</b>					
Length	[mm]	1580	(±10% allowance)		
Width	[mm]	920	(±10% allowance)		
Height	[mm]	1660	(±10% allowance)		
Oil Weight	[kg]	520	(±10% allowance)		
Total Weight	[kg]	2120	(±10% allowance)		
<b>Accessories:</b>			<b>Tank:</b> Carbon Steel		
- Rating plate , Lifting Lug , Drain Plug , Tanking Earth , Off-Load Tap Changer			<b>Painting:</b> Electrostatic painting		
- Bi-directional roller-(Diameter,C-C) : 125 / 670			<b>Color:</b> RAL7033,80-120µm , C4		
- High Voltage Bushing : Plug-In Bushing PUG-IN-24--250			<b>Customer termination:</b>		
- Low Voltage Bushing : Bus Bar Bushing COMEM-BT1/1600			Primary	Secondary	
-DMCR			Terminals IP	IP00	IP00
- Pressure Relief Valve without contact ,T10			Type	via Cable	via Cable
			Position	Top	Top

**Notes**

- Other accessories which are not mentioned in the above statements are not included.
- Cable connection and termination materials are not included. (e.g. cable lug, flexible bus bar)
- 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.