

Project No:	-	ABB Design No:	TOA-2000-24XDSQ
Project Name:	-	Refer. Quotation No:	
Customer:		Customer Spec.:	-

Rev.	Issued	Approved	Date	Description
0	Ahmed El-Gawad	Ashraf Mobarak	3/23/2022	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	Secondary	
Rated Power	[kVA]	2000	2000	
Rated Voltage @ No load	[V]	15000	410	
Maximum system Voltage	[kV]	17.5	1.1	
BIL (Basic Impulse Withstand Level)	[kV]	95	-	
Power Frequency withstand Level	[kV]	38	3	
Tapping (Off circuit tap changer)	+2x2.5%-2x2.5%			
Connections	DELTA			
Conductor Material	AL			
			WYE	
			CU	
Guaranteed Performance Data at Nominal Tap, 75@°C				
No load loss	[W]	3110	(+15% Tolerance)	
Load loss	[W]	25500	(+15% Tolerance)	
Total loss	[W]	28610	(+10% Tolerance)	
Impedance	[%]	6	(±10% Tolerance)	
Preliminarily Dimensions, approximately				
Length	[mm]	2140	(±10% allowance)	
Width	[mm]	1340	(±10% allowance)	
Height	[mm]	1840	(±10% allowance)	
Oil Weight	[kg]	910	(±10% allowance)	
Total Weight	[kg]	4650	(±10% allowance)	
Accessories:			Tank: Carbon Steel	
- Rating plate , Lifting Lug , Drain Plug , Tanking Earth , Off-Load Tap Changer			Painting: Electrostatic painting	
- Bi-directional roller-(Diameter,C-C) : 200 / 820			Color: RAL7033,80-120µm , C4	
- High Voltage Bushing : Plug-In Bushing PUG-IN-36--400			Customer termination:	
- Low Voltage Bushing : Porcelain Bushing DT3/4500			Primary	Secondary
-DMCR			Terminals IP	IP00
- Pressure Relief Valve without contact ,T10			Type	via Cable
			Position	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.