Hitachi Energy

Transformer technical data sheet

EGTRA/TEC/01/Q-1

10th RAMADAN CITY - EGYPT

Top

Position Top

Project No: - ABB Design No: TOA-1600-24XDSQ

Project Name: - Refer. Quotation No: Customer: Customer Spec.:

Rev.	Issued	Approved	Date	Description		
0	Yara Tammam	Ashraf Mobarak	3/17/2022	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] 60		
Average Winding Temperature rise	1.70	65		
Winding		Primary	Secondary	
Rated Power	[kVA]	1600	1600	
Rated Voltage @ No load	[V]	15000	410	
Maximum system Voltage	[kV]		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	WYE	
Conductor Material		AL	AL	
Guaranteed Performance Data	at Nominal Tap, 75@°C			·
No load loss		2500	(+15% Tolerance)	
Load loss	[W]	16100	(+15% Tolerance)	
Total loss	[W]	18600	(+10% Tolerance)	
Impedance	[%]	6	(±10% Tolerance)	
Preliminarily Dimensions, approximately				
Length		1850	(±10% allowance)	
Width		1150	(±10% allowance)	
Height		1900	(±10% allowance)	
Oil Weight	670	(±10% allowance)		
Total Weight	[kg]	3500	(±10% allowance)	STEERS TO
Accessories:		2020	Tank: Carbon S	
- Rating plate , Lifting Lug , Drain Plug , Tar		nger	Painting: Electrostatic painting Color: RAL7033,80-120μm, C4	
- Bi-directional roller-(Diameter,C-C):	160 / 820			
	-In Bushing PUG-IN-24250		Customer termina Primary	
- Low voltage Bushing . Porceix -DMCR	ain Bushing DT1/3150	Terminals IP		Secondary IP00
-DIVICR - Pressure Relief Valve without contact ,T10	i		via Cable	via Cable
- Fressure Relief valve without contact, I it	į.	Type	T	T

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.