



Transformer technical data sheet

TOA-1600-36XFSR-RevB

General Specification		Oil Immersed Transformer- Distribution	
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]	1600	1600
Rated Voltage @ No load	[V]	33000	410
Maximum system Voltage	[kV]	36	1.1
BIL (Basic Impulse Withstand Level)	[kV]	170	-
Power Frequency withstand Level	[kV]	70	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	[W]	2500	(+15% Tolerance)
Load loss	[W]	16000	(+15% Tolerance)
Total loss	[W]	18500	(+10% Tolerance)
Impedance	[%]	6	(±10% Tolerance)
Preliminary Dimensions, approximately			
Length	[mm]	1925	(±10% allowance)
Width	[mm]	1169	(±10% allowance)
Height	[mm]	1794	(±10% allowance)
Oil Weight	[kg]	784	(±10% allowance)
Total Weight	[kg]	3741	(±10% allowance)
Accessories:			
- Rating plate , Lifting Lug , Drain Plug , Tanking Earth , Off-Load Tap Changer			Tank: Carbon Steel
- Bi-directional roller-(Diameter,C-C) :	160/820		Painting: Electrostatic painting
- High Voltage Bushing :	Plug-In Bushing PUG-IN-36--400		Color: RAL7033,80-120µm , C4
- Low Voltage Bushing :	Porcelain Bushing DT1/3150		Customer termination:
- DGPT2		Terminals IP	Primary IP00
- Pressure Relief Valve without contact ,T10			Secondary IP00
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.			

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