SPECIFICATION OIL IMMERSED TRANSFORMER 160 KVA. 3 Ph. 50 Hz 22000 - 416 / 240 V.

## THAI CENTER TRANSFORMER CO., LTD

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Address: 67 / 1 Moo. 7 T. Bangkam A. Maung Nakonpathom 73000

Tel. 081 - 8054856, 034 - 219036 Fax 034 - 984092 http://www.thaicentertransformer.com e - mail: thaicenter671@gmail.com

Transformer Specification Quote. Ref : Customer : Project :

Rated power		KVA	160
Type of transformer		-	Oil immersed (Hermetically sealed)
Standard		-	IEC 60076
Cooling System		-	ONAN
No. Of phase		-	3
Frequency		Hz	50
Rate of voltage : Primary		v.	22000
: Secondary		V.	416/240
Vector group		-	Dyn 11
Tapping Typ	e	-	Off Circuit Tap Changer
No	. of steps	-	5
Per	centage of tapping	-	± 2 x 2.5 %
Impedance voltage at 75 C		%	4
NO - Load current & Tolerance		A & .%	0.939 A & + 30 %
Ambient temperature		C	50
Average Temperature rise of winding		k	55
Average Temperature rise of top oil		k	50
Noise level not more than		dB	56
No - Load loss		Watt	260
Load loss at 75 C		Watt	2000
	: 25 % of rate power	%	98.94
Efficiency	: 50 % of rate power	%	98.08
at P.F. = 1	: 75 % of rate power	%	98.79
	: 100 % of rate power	%	98.56
Voltage regulation	: at P.F. = 0.8	%	3.22
	: at P.F. = 0.9	%	2.71
	: at P.F. = 1.	%	1.32
Impulse Withstand	: Primary winding	KV.	125
Voltage	: Secondary winding	KV.	30
Power Frequency	: Primary winding	KV.	50
	: Secondary winding	KV.	10
Terminal arrangement H.V. Side		mm²	35-95
	L.V. Side	mm <sup>2</sup>	95-120
Installation on			Pole mounted / Plantform

## TCT THAI CENTER TRANSFORMER CO.,LTD

SPECIFICATION THREE PHASE TRANSFORMER

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## Transformer Specification

Quote. Ref :

Customer :

Project :

Rated power		160
Type of transformer		Oil immersed ( Hermetically sealed )
Accessories		
H.V. Bushing with terminal connect	or	Included
L.V. Bushing with terminal connector	r	Included
Grounding pad or earth terminal		Included
upper fillter press sampling valve		Included
Oil drain, filter press sampling valve		Included
Name plate		Included
Arcing Horn		Included
Skid Base		Included
Mechanical pressure relief device		Included
Oil level indicator		Included
Testing		
- Routine test		
Ratio test at each position of tap	(IEC 60076-1)	Included
Polarity and phase relation test		Included
Resistance measurement	(IEC 60076-1)	Included
No - Load loss and exciting current	t test	Included
Impedance and load loss test		Included
Applied potential test		Included
Induced potential test		Included
Insulation resistance test		Included
Oil test		Included
Type Tests		
Temperature rise test (IEC 600	76-2)	Included
Full wave lightning impulse test	(IEC 60076-2 and IEC 60076-3)	Included ( with contact )
Measurement of no-load loss and cur	rent at 90% and 110% of reted voltage	Included ( with contact )
- Specia test		
Short - cicuit withstand test	(IEC 60076-5)	Included ( with contact )

