SPECIFICATION OIL IMMERSED TRANSFORMER 800 KVA. 3 Ph. 50 Hz 33000 - 400/230 V.

THAI CENTER TRANSFORMER CO., LTD

TCT THAI CENTER TRANSFORMER CO.,LTD

SPECIFICSTION THREE PHASE TRANSFORMER

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@hotmail.com

Transformer Specificstion

Quote. Ref :

Customer :

Project :

Image: Strandard Control of the image	Rated power		KVA	800		
Cooling System.ONANNo. Of phase?requency	Type of transformer		-	Oil immersed (Hermeticall sealed)		
No. Of phase . 3 Prequency	Standard		-	IEC 76		
requency Hz 50 Rate of voltage : Primary V 33000 : Secondary V 400/230 Vector group - Dyn 11 Tapping Type - Off circuit tap changer No. of steps - 5 Percentage of tapping - $\pm 2 \times 2.5 \%$ mpedance voltage at 75 C	Cooling System		_	ONAN		
Aate of voltage: Primary 	No. Of phase		_	3		
: SecondaryW400/230Vector group-Dyn 11Tapping TypeType-No. of steps-Percentage of tapping- $+ 2 \times 2.5 \%$ impedance voltage at 75 C	Frequency		Hz	50		
Vector group - Dyn 11 Tapping Type - Off circuit tap changer No. of steps - 5 Percentage of tapping - ± 2 x 2.5 % Impedance voltage at 75 C % 6 NO - Load current % 1 Ambient temperature	Rate of voltage : Primary		V.	33000		
TappingType No. of steps- 5Percentage of tapping-5Percentage of tapping- $\pm 2 \times 2.5 \%$ Impedance voltage at 75 C	: Secondary		V.			
No. of steps-5Percentage of tapping- $\pm 2 \times 2.5 \%$ impedance voltage at 75 C%6NO - Load current%1Ambient temperature	Vector group		-	Dyn 11		
Percentage of tapping $+2 \times 2.5 \%$ impedance voltage at 75 C%NO - Load current%Anbient temperature%Anbient temperature%Average Temperature rise of windingCAverage Temperature rise of top oilCNo - Load loss	Tapping Type		-	Off circuit tap changer		
Impedance voltage at 75 CImpedance voltage at 75 CGNO - Load currentImpedance voltage at 75 C40Ambient temperatureImmedance voltage at 75 C40Average Temperature rise of windingImmedance C65Average Temperature rise of top oilC60No - Load lossImmedance Valtage at 75 C60No - Load lossImmedance Valtage at 75 C60Load loss at 75 CImmedance Valtage at 75 % of rate power98.94Efficiency150 % of rate power98.08It P.F. = 1175 % of rate power98.79It 100 % of rate power98.56Voltage regulation: at P.F. = 0.8: at P.F. = 0.9Immedance %: at P.F. = 1.1.17Impulse Withstand: Primary winding: at P.F. = 1			-	5		
NO - Load current	Percentage of tapping		-	<u>+</u> 2 x 2.5 %		
Ambient temperature	Impedance voltage at 75 C		%	6		
Average Temperature rise of winding	NO - Load current		%	1		
Average Temperature rise of top oil	Ambient temperature		C	40		
Noise level not more than	Average Temperature	rise of winding	C	65		
No - Load loss Watt 1270 Load loss at 75 C Watt 9900 : 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 1.17 impulse Withstand : Primary winding	Average Temperature rise of top oil		C	60		
No - Load lossWatt1270Load loss at 75 CWatt9900 $: 25 \%$ of rate power%Efficiency $: 50 \%$ of rate power%Efficiency $: 50 \%$ of rate power%at P.F. = 1 $: 75 \%$ of rate power% $: 100 \%$ of rate power%98.56Voltage regulation $: at P.F. = 0.8$ % $: at P.F. = 0.9$ %2.71 $: at P.F. = 1.$ %1.17Impulse Withstand: Primary windingKV.Voltage: Secondary windingKV.Power Frequency: Primary windingKV.Secondary windingKV.3Ferminal arrangement H.V. SideCableL.V. SideCable	Noise level not more than		dB	56		
$\begin{array}{c cccc} & \begin{array}{c} 1 & 1 & 1 & 1 \\ \hline & & & & \\ \hline & & & \\ \hline & & \\ \hline \\ \hline$	No - Load loss					
Efficiency: 50 % of rate power%98.08at P.F. = 1: 75 % of rate power%98.79: 100 % of rate power%98.56Voltage regulation: at P.F. = 0.8%3.22: at P.F. = 0.9%2.71: at P.F. = 1%1.17Impulse Withstand: Primary windingKV.125Voltage: Secondary windingKV.50: Secondary windingKV.33Terminal arrangement H.V. SideCableCableL.V. SideCableCable	Load loss at 75 C		Watt	9900		
Ant P.F. = 1: 75 % of rate power%98.79: 100 % of rate power%98.56Voltage regulation: at P.F. = 0.8%: at P.F. = 0.9%2.71: at P.F. = 1%1.17Impulse Withstand: Primary winding%Voltage: Secondary winding%Power Frequency: Primary winding%: Secondary winding%3Terminal arrangement H.V. SideCableCableL.V. SideCableCable		: 25 % of rate power	%	98.94		
x T = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1	Efficiency	: 50 % of rate power	%	98.08		
Voltage regulation : at P.F. = 0.8 % 3.22 : at P.F. = 0.9 % 2.71 : at P.F. = 1. % 1.17 Impulse Withstand : Primary winding KV. 125 Voltage : Secondary winding KV. - Power Frequency : Primary winding KV. 50 : Secondary winding KV. 3 Ferminal arrangement H.V. Side Cable Cable L.V. Side Cable Cable	at P.F. = 1	: 75 % of rate power	%	98.79		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$: 100 % of rate power	%	98.56		
: at P.F. = 1%1.17Impulse Withstand: Primary windingKV.125Voltage: Secondary windingKVPower Frequency: Primary windingKV.50: Secondary windingKV.3Terminal arrangement H.V. SideCableL.V. SideCable	Voltage regulation	: at P.F. $= 0.8$	%	3.22		
Impulse Withstand : Primary winding KV. 125 Voltage : Secondary winding KV. - Power Frequency : Primary winding KV. 50 : Secondary winding KV. 3 Terminal arrangement H.V. Side Cable L.V. Side Cable		: at P.F. $= 0.9$	%	2.71		
Voltage : Secondary winding - Power Frequency : Primary winding KV. 50 : Secondary winding KV. 3 Terminal arrangement H.V. Side Cable L.V. Side Cable		: at P.F. $= 1$.	%	1.17		
Power Frequency : Primary windingKV. 50 : Secondary windingKV. 3 Terminal arrangement H.V. Side Cable L.V. Side Cable	Impulse Withstand	: Primary winding	KV.	125		
: Secondary winding KV. 3 Terminal arrangement H.V. Side Cable L.V. Side Cable	Voltage	: Secondary winding	KV.	-		
Cable L.V. Side Cable	Power Frequency	: Primary winding	KV.	50		
L.V. Side Cable		: Secondary winding	KV.	3		
	Terminal arrangement H.V. Side			Cable		
Installation on Pole mounted / Plantform		L.V. Side		Cable		
	Installation on			Pole mounted / Plantform		

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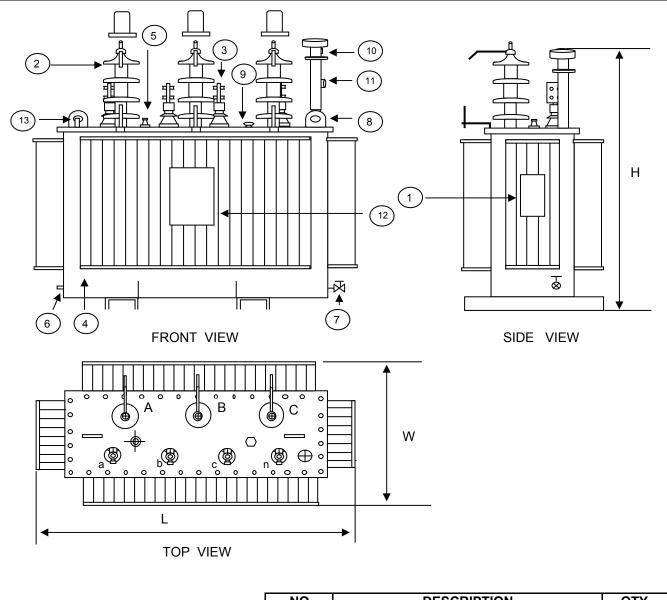
Transformer Specificstion

Quote. Ref :

Customer :

Project :

Rated power	800			
Type of transformer	Oil immersed (Hermeticall sealed tank)			
Accessories				
H.V. Bushing with terminal connector	Included			
L.V. Bushing with terminal connector	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 (without contact)			
Oil level indicator	Included (with contact)			
	Included (with contact)			
	Included (with contact)			
Testing				
- Routine test				
Ratio test at each position of tap				
	Included			
Polarity and phase relation test	Included Included			
Polarity and phase relation test Resistance measurement				
• •	Included			
Resistance measurement	Included Included			
Resistance measurement No - Load loss and exciting current test	Included Included Included			
Resistance measurement No - Load loss and exciting current test Impedance and load loss test	Included Included Included Included			
Resistance measurement No - Load loss and exciting current test Impedance and load loss test Applied potential test	Included Included Included Included Included			
Resistance measurement No - Load loss and exciting current test Impedance and load loss test Applied potential test Induced potential test	Included Included Included Included Included Included			
Resistance measurement No - Load loss and exciting current test Impedance and load loss test Applied potential test Induced potential test Insulation resistance test	Included Included Included Included Included Included Included			
Resistance measurement No - Load loss and exciting current test Impedance and load loss test Applied potential test Induced potential test Insulation resistance test Oil test	Included Included Included Included Included Included Included			



PRELIMINARY DRAWING 1970 mm 1800 mm 1030 mm 2650 805 PRELIMINARY DRAWING DESIGN No. 00800TCT0009052 S/O No. A000905 showing approximate dimensions and should not be used for actual purposes NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11		NO	DESCRIPTION				QTY.	
3 LV. BUSHING W / TERMINAL CONNECTOR 4 4 TANK 1 5 TAP CHANGE 1 6 EARTH TERMINAL 1 7 OIL DRAIN VALAE 1 8 LIFTING EYES ON THE COVER 2 9 OIL LEVEL INDICATOR 1 10 OIL FILLING PIPE 1 11 OIL EVEL GAUGE 1 12 LOGO 1 13 THERMOMETER POCKET 1 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. 14 ARCING HORN 3 This drawing is for estimation only Showing approximate dimensions and should not be used for actual purposes DESIGN No. 00800TCT0009052 S/O No. NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11 800 kVA. 3 Ph. Dyn11		1	NAMEPLATE WITH CONNECTION DIAGRAM			1		
4 TANK 1 5 TAP CHANGE 1 6 EARTH TERMINAL 1 7 OIL DRAIN VALAE 1 8 LIFTING EYES ON THE COVER 2 9 OIL LEVEL INDICATOR 1 10 OIL FILLING PIPE 1 11 OIL LEVEL GAUGE 1 12 LOGO 1 13 THERMOMETER POCKET 1 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. Oil H L W (Kgs.) (Litres 1970 mm 1800 mm 1030 mm 2650 805 DESIGN No. 00800TCT0009052 S/O No. A000905 NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11		2	HV. BUSHING W / TERMINAL CONNECTOR				3	
5 TAP CHANGE 1 6 EARTH TERMINAL 1 7 OIL DRAIN VALAE 1 8 LIFTING EYES ON THE COVER 2 9 OIL LEVEL INDICATOR 1 10 OIL FILLING PIPE 1 11 OIL LEVEL GAUGE 1 12 LOGO 1 13 THERMOMETER POCKET 1 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. 0I H L W W (Kgs.) (Litres 1970 mm 1800 mm 1030 mm 2650 DESIGN No. 00800TCT009052 S/O No. A000905 NAME TITLE : OUTLINE DRAWING showing approximate dimensions and should not be used for actual purposes TITLE : OUTLINE DRAWING		3	LV. BUSHING W / TERMINAL CONNECTOR				4	
6 EARTH TERMINAL 1 7 OIL DRAIN VALAE 1 8 LIFTING EYES ON THE COVER 2 9 OIL LEVEL INDICATOR 1 10 OIL FILLING PIPE 1 11 OIL LEVEL GAUGE 1 12 LOGO 1 13 THERMOMETER POCKET 1 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. Oil H L W (Kgs.) (Litres) 1970 mm 1800 mm 1030 mm 2650 805 DESIGN No. 00800TCT0009052 S/O No. A000905 NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11			4	TANK				1
7 OIL DRAIN VALAE 1 8 LIFTING EYES ON THE COVER 2 9 OIL LEVEL INDICATOR 1 10 OIL FILLING PIPE 1 11 OIL LEVEL GAUGE 1 12 LOGO 1 13 THERMOMETER POCKET 1 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. 01 H L W 1970 mm 1800 mm 1030 mm 2650 805 DESIGN No. 00800TCT0009052 S/O No. A000905 NAME TITLE : OUTLINE DRAWING 00800KVA.3 Ph. Dyn11			5	TAP CHANC	θE			1
Note of the control			6	EARTH TE	RMINAL			1
9 OIL LEVEL INDICATOR 1 10 OIL FILLING PIPE 1 11 OIL LEVEL GAUGE 1 12 LOGO 1 13 THERMOMETER POCKET 1 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. Oil H L W (Kgs.) (Litres 1970 mm 1800 mm 1030 mm 2650 805 DESIGN No. 00800TCT0009052 S/O No. A000905 NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11			7	OIL DRAIN	VALAE			1
10 OIL FILLING PIPE 1 11 OIL LEVEL GAUGE 1 12 LOGO 1 13 THERMOMETER POCKET 1 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. Dimension in millimetres Total wt. 01 H L W 1970 mm 1800 mm 1030 mm 2650 805 DESIGN No. 00800TCT0009052 S/O No. A000905 This drawing is for estimation only NAME TITLE : OUTLINE DRAWING NAME DRN.BY TITLE : OUTLINE DRAWING				LIFTING EY	ES ON THE	COVER		2
11 OIL LEVEL GAUGE 1 12 LOGO 1 13 THERMOMETER POCKET 1 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. 01 H L W 1970 mm 1800 mm 1030 mm 2650 805 DESIGN No. 00800TCT0009052 S/O No. NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11			9	OIL LEVEL	INDICATOR			1
12 LOGO 1 13 THERMOMETER POCKET 1 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. Oil H L W (Kgs.) (Litres 1970 mm 1800 mm 1030 mm 2650 805 DESIGN No. 00800TCT0009052 S/O No. A000905 NAME TITLE : OUTLINE DRAWING NAME DRN.BY 800 kVA. 3 Ph. Dyn11		10	OIL FILLING PIPE 1					
13 THERMOMETER POCKET 1 14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. Oil H L W (Kgs.) (Litres 1970 mm 1800 mm 1030 mm 2650 805 PRELIMINARY DRAWING DESIGN No. 00800TCT0009052 S/O No. A000905 Showing approximate dimensions and should not be used for actual purposes NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11			11	OIL LEVEL	GAUGE			1
14 ARCING HORN 3 THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. Oil H L W (Kgs.) (Litres 1970 mm 1800 mm 1030 mm 2650 805 PRELIMINARY DRAWING DESIGN No. 00800TCT0009052 S/O No. A000905 Showing approximate dimensions and should not be used for actual purposes NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11			LOGO 1				1	
THAI CENTER TRANSFORMER CO.,LTD Dimension in millimetres Total wt. Oil H L W (Kgs.) (Litres 1970 mm 1800 mm 1030 mm 2650 805 DESIGN No. 00800TCT0009052 S/O No. A000905 This drawing is for estimation only showing approximate dimensions and should not be used for actual purposes NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11		13	THERMOMETER POCKET 1				1	
Dimension in millimetres Total wt. Oil H L W (Kgs.) (Litres 1970 mm 1800 mm 1030 mm 2650 805 PRELIMINARY DRAWING This drawing is for estimation only showing approximate dimensions and should not be used for actual purposes DESIGN No. 00800TCT0009052 S/O No. A000905 NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11		14	ARCING HORN 3					
Dimension in millimetres Total wt. Oil H L W (Kgs.) (Litres 1970 mm 1800 mm 1030 mm 2650 805 PRELIMINARY DRAWING This drawing is for estimation only showing approximate dimensions and should not be used for actual purposes DESIGN No. 00800TCT0009052 S/O No. A000905 NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11		-						
H L W (Kgs.) (Litres 1970 mm 1800 mm 1030 mm 2650 805 PRELIMINARY DRAWING This drawing is for estimation only showing approximate dimensions and should not be used for actual purposes DESIGN No. 00800TCT0009052 S/O No. A0009052 NAME TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11			THAI CENTER TRANSFORMER CO.,LTD					
PRELIMINARY DRAWING 1970 mm 1800 mm 1030 mm 2650 805 PRELIMINARY DRAWING DESIGN No. 00800TCT0009052 S/O No. A000905 This drawing is for estimation only NAME TITLE : OUTLINE DRAWING should not be used for actual purposes DRN.BY S00 kVA. 3 Ph. Dyn11		Dimension in millimetres Total wt.					-	
PRELIMINARY DRAWING DESIGN No. 00800TCT0009052 S/O No. A000905 This drawing is for estimation only showing approximate dimensions and NAME TITLE : OUTLINE DRAWING should not be used for actual purposes DRN.BY 800 kVA. 3 Ph. Dyn11				Н	L		(Kgs.)	(Litres)
This drawing is for estimation only showing approximate dimensions and should not be used for actual purposes DRN.BY TITLE : OUTLINE DRAWING 800 kVA. 3 Ph. Dyn11							2650	805
showing approximate dimensions and should not be used for actual purposes NAME TITLE : OUTLINE DRAWING BRN.BY 800 kVA. 3 Ph. Dyn11	PRELIMINARY DRAWING		DESIGN N	0.	00800TCT	0009052	S/O No.	A0009052
should not be used for actual purposes DRN.BY 800 kVA. 3 Ph. Dyn11	This drawing is for estimation only							
	5 11		NAME			TITLE :	OUTLINE D	RAWING
							800 kVA. 3 P	h. Dyn11
In case of order a definite drawing CHK.BY 33000 - 400 / 230	In case of order a definite drawing		CHK.BY			33000 - 400 / 230		
will be produced for formal approval APP. BY TYPE : Hermeticall sealed tank	will be produced for formal approval		APP. BY		TYPE : Hermeticall sealed tank			