

CHATCHAI

SPECIFICATION

OIL IMMERSED TRANSFORMER

160 KVA. 3 Ph. 50 Hz

22000 - 400 / 230 V.



CHATCHAI TRANSFORMER CO.,LTD

35/4 หมู่ 8 ต. ท่าไม้ อ.กระทุ่มแบน จ. สมุทรสาคร

Tel. 085-2961053 085-3151766

Specification

Project :

Rated power	kVA	160
Type of transformer	-	Oil immersed (Hermetically sealed)
Phase	-	3
Frequency	Hz	50
Rate of voltage : Primary	V	22000
: Secondary	V	400/230
Vector group	-	Dyn 11
Rate of voltage : Primary	.....V.	22000
: Secondary	.....V.	400/230
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	.....%	4
NO - Load current	.....%	1
Ambient temperature	.....C	40
Average Temperature rise of winding	.....C	65
Average Temperature rise of top oil	.....C	60
Noise level not more than	.....dB	56
No - Load loss	.....Watt	460
Load loss at 75 C	.....Watt	2100
: 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.	.....%	1.17
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
Installation on		Pole mounted / Plantform



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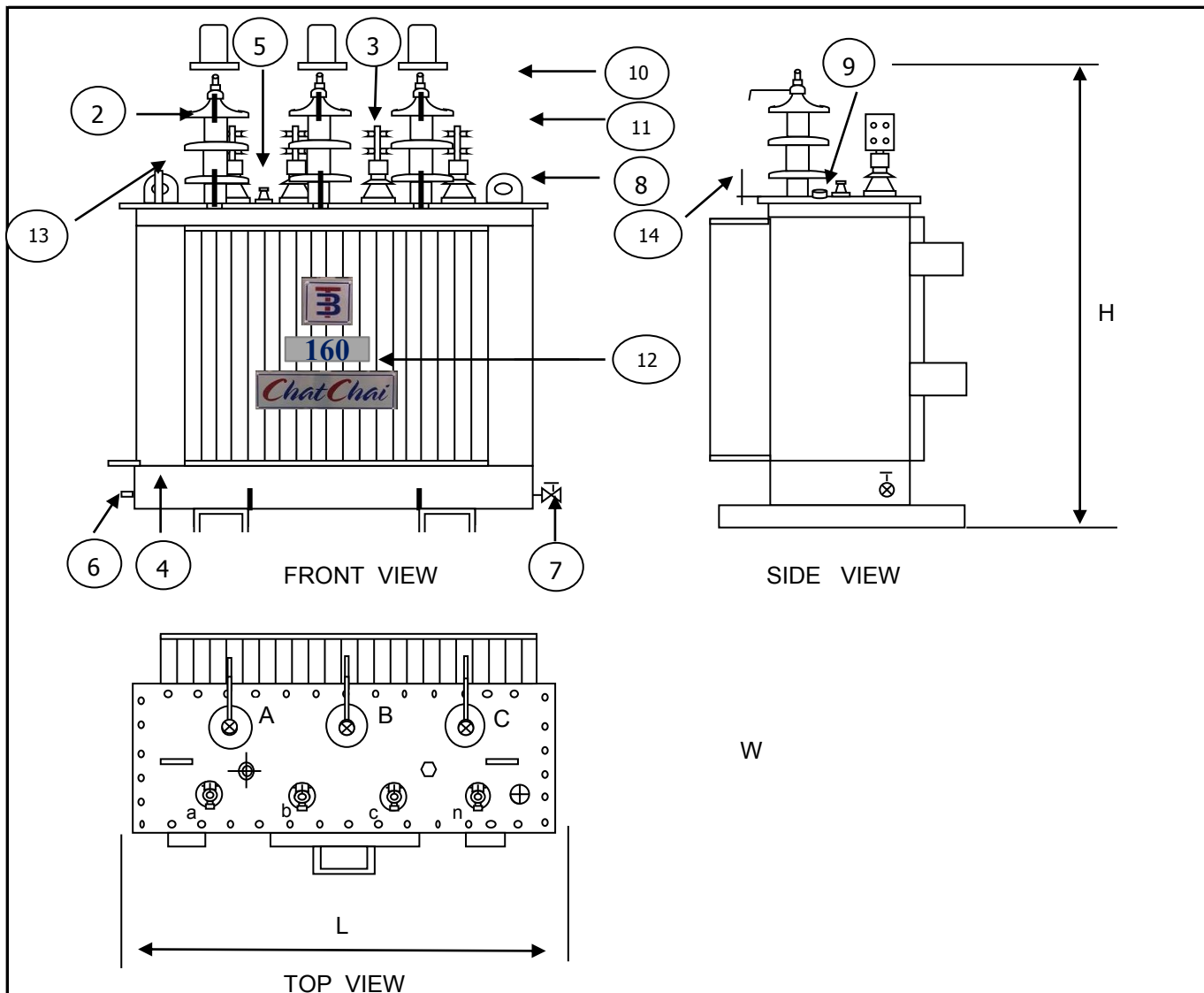
Specification

Quote. Ref :

Customer :

Project :

Rated power	160
Type of transformer	Oil immersed (Hermetically sealed)
Accessories	
H.V. Bushing with terminal connector	Included
L.V. Bushing with terminal connector	Included
Grounding pad or earth terminal	Included
upper filter 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
Resistance measurement	Included
No - Load loss and exciting current test	Included
Impedance and load loss test	Included
Applied potential test	Included
Induced potential test	Included
Insulation resistance test	Included
Oil test	Included
- Specia test	
Impulse withstand test	Included (TR lab)
Temperature rise test	Included (TR lab)



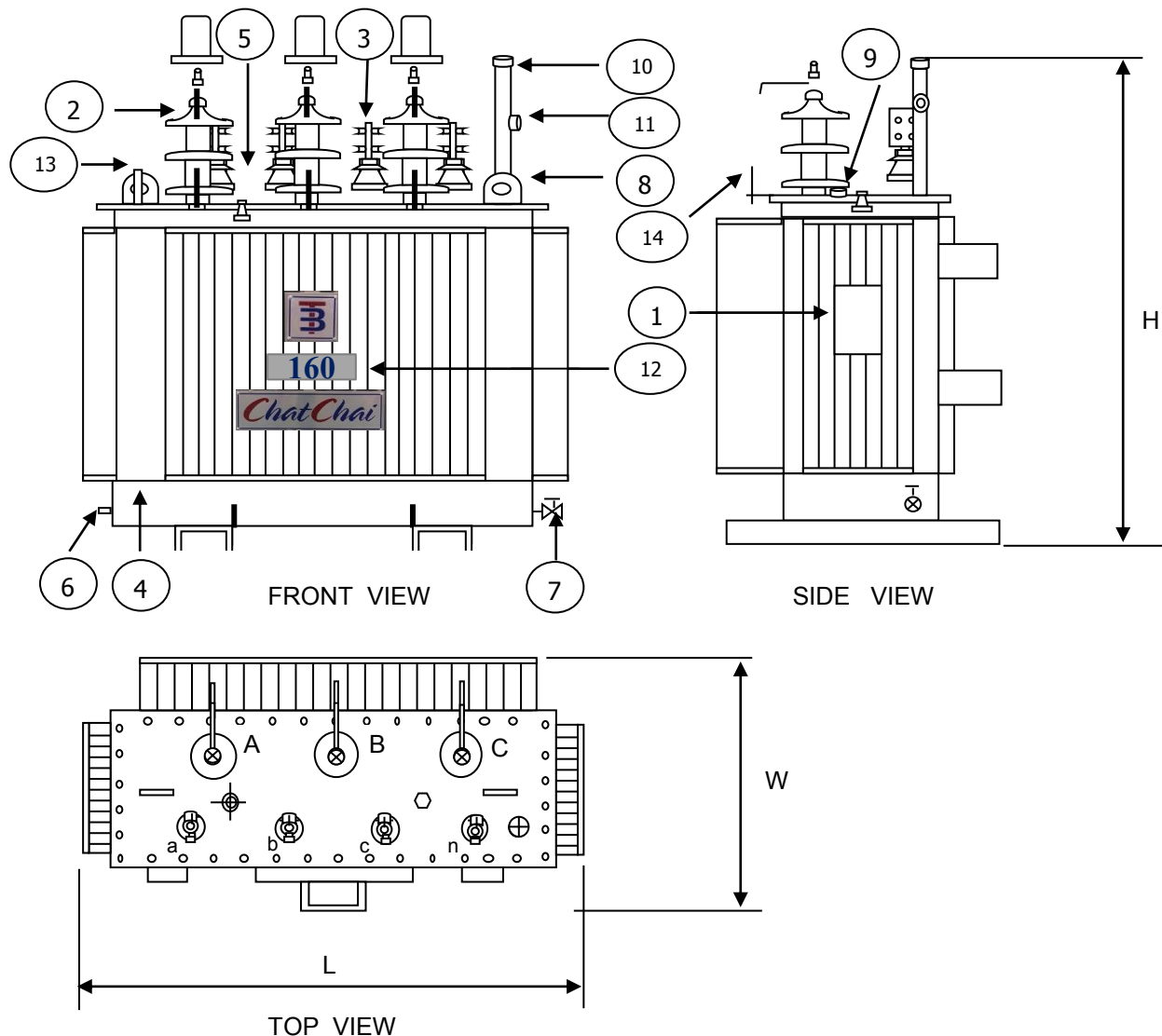
NO	DESCRIPTION	QTY.
1	NAMEPLATE WITH CONNECTION DIAGRAM	1
2	HV. BUSHING W / TERMINAL CONNECTOR	3
3	LV. BUSHING W / TERMINAL CONNECTOR	4
4	TANK	1
5	TAP CHANGE	1
6	EARTH TERMINAL	1
7	OIL DRAIN VALAE	1
8	LIFTING EYES ON THE COVER	2
9	OIL LEVEL INDICATOR	1
10	OIL FILLING PIPE	1
11	OIL LEVEL GAUGE	1
12	LOGO	1
13	THERMOMETER POCKET	1
14	ARCING HORN	3

T R Engineering Service Co.,Ltd					
Dimension in millimetres				Total wt.	Oil
	H	L	W	(Kgs.)	(Litres)
	1520 mm	1180 mm	760 mm	860	240
DESIGN No. 001TR16022000				S/O No.	A0010056
NAME			TITLE :	OUTLINE DRAWING	
DRN.BY				160 KVA. 3 Ph. Dyn11	
CHK.BY				22000 - 400 / 230 v.	
APP. BY				TYPE : Hermeticall sealed tank	

PRELIMINARY DRAWING

This drawing is for estimation only showing approximate dimensions and should not be used for actual purposes

In case of order a definite drawing will be produced for formal approval



NO	DESCRIPTION	QTY.
1	NAMEPLATE WITH CONNECTION DIAGRAM	1
2	HV. BUSHING W / TERMINAL CONNECTOR	3
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 LEVEL GAUGE	1
12	LOGO	1
13	THERMOMETER POCKET	1
14	ARCING HORN	3

จัดรัย หม้อแปลงไฟฟ้า					
Dimension in millimetres				Total wt.	Oil
	H	L	W	(Kgs.)	(Litres)
	1280 mm	1000 mm	720 mm	860	240
DESIGN No. 001TR16022000				S/O No. A0010056	
NAME			TITLE : OUTLINE DRAWING 160 KVA. 3 Ph. Dyn11 22000 - 400 / 230 v. TYPE : Hermetically sealed tank		
DRN.BY					
CHK.BY					
APP. BY					

PRELIMINARY DRAWING

This drawing is for estimation only showing approximate dimensions and should not be used for actual purposes
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