

**SPECIFICATION**  
**OIL IMMERSED TRANSFORMER**  
**30 KVA. 1 Ph. 50 Hz**  
**22000 - 480 / 240 V.**

**TCT** THAI CENTER TRANSFORMER CO.,LTD  
SPECIFICSTION THREE PHASE TRANSFORMER

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

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

**Transformer Specification**

**Quote. Ref :**

**Customer :**

**Project :**

|                                     |                       |                                      |                          |
|-------------------------------------|-----------------------|--------------------------------------|--------------------------|
| Rated power                         | .....KVA              | 30                                   |                          |
| Type of transformer                 | -                     | Oil immersed ( Hermetically sealed ) |                          |
| Standard                            | -                     | IEC 76                               |                          |
| Cooling System                      | -                     | ONAN                                 |                          |
| No. Of phase                        | -                     | 1                                    |                          |
| Frequency                           | .....Hz               | 50                                   |                          |
| Rate of voltage : Primary           | .....V.               | 22000                                |                          |
| : Secondary                         | .....V.               | 480/240                              |                          |
| Vector group                        | -                     | Dyn 11                               |                          |
| Tapping Type                        | -                     | <b>Off circuit tap changer</b>       |                          |
| No. of steps                        | -                     | 5                                    |                          |
| Percentage of tapping               | -                     | $\pm 2 \times 2.5 \%$                |                          |
| Impedance voltage at 75 C           | .....%                | 2.00                                 |                          |
| NO - Load current                   | .....%                | 1.5%&+ 30%                           |                          |
| 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             | <b>120</b>                           |                          |
| Load loss at 75 C                   | .....Watt             | <b>430</b>                           |                          |
| Efficiency at P.F. = 1              | : 25 % of rate power  | .....%                               | 98.94                    |
|                                     | : 50 % of rate power  | .....%                               | 98.08                    |
|                                     | : 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 Voltage           | : Primary winding     | .....KV.                             | 125                      |
|                                     | : 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             | .....MM2                             | 35 - 95                  |
| Installation on                     |                       |                                      | Pole mounted / Plantform |

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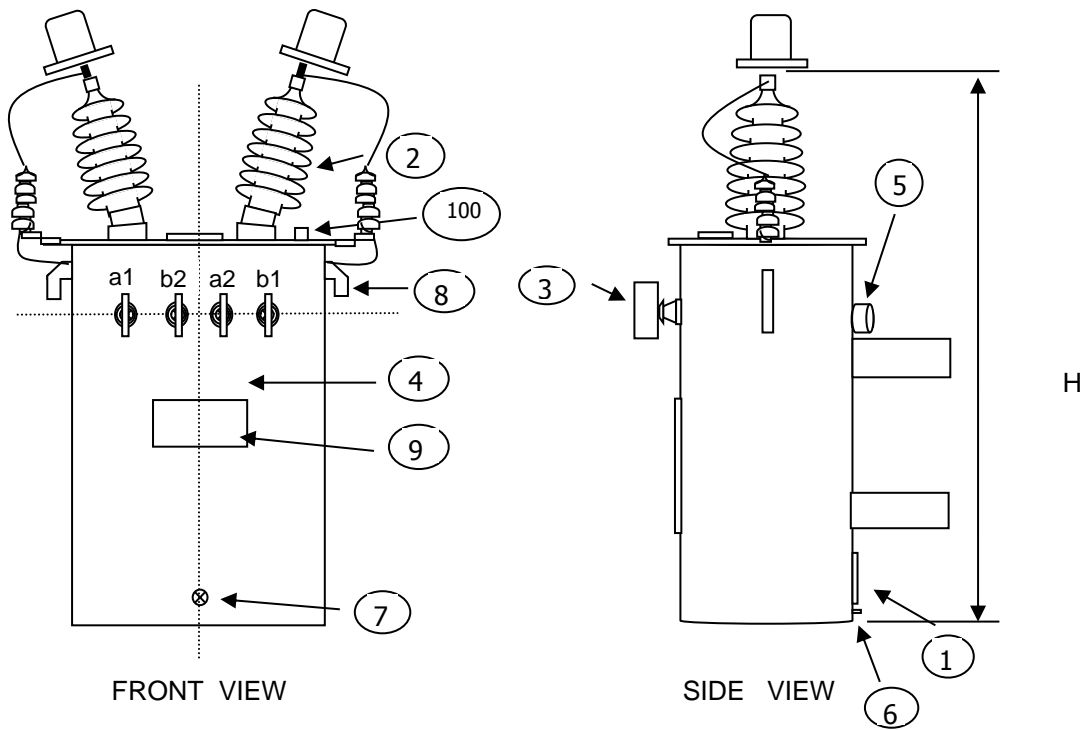
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**Quote. Ref :**

**Customer :**

**Project :**

|  |                                      |
|--|--------------------------------------|
| Rated power                              | <b>30</b>                            |
| Type of transformer                      | Oil immersed ( Hermetically sealed ) |
| <b>Accessories</b>                       |                                      |
| 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 )            |
| <b>Testing</b>                           |                                      |
| <b>- Routine test</b>                    |                                      |
| 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                             |
| <b>- Specia test</b>                     |                                      |
| Impulse withstand test                   | Included ( Thaicenter lab )          |
| Temperature rise test                    | Included ( Thaicenter 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  | LOGO                               | 1    |
| 10 | THERMOMETER POCKET                 | 1    |
|    |                                    |      |
|    |                                    |      |
|    |                                    |      |
|    |                                    |      |

| THAI CENTER TRANSFORMER CO.,LTD |             |         |         |           |                          |
|---------------------------------|-------------|---------|---------|-----------|--------------------------|
| Dimension in millimetres        |             |         |         | Total wt. | Oil                      |
|                                 | H           | L       | W       | ( Kgs.)   | ( Litres )               |
|                                 | 1260 mm.    | 620 mm. | 510 mm. | 235       | 65                       |
| DESIGN No.                      | TCT 5209001 |         |         | S/O No.   | 1001203                  |
| NAME                            |             |         |         | TITLE :   | OUTLINE DRAWING          |
| DRN.BY                          |             |         |         |           | 30 kVA. 1 Ph.Dyn11       |
| CHK.BY                          |             |         |         |           | 22000 - 480 / 240 v.     |
| APP. BY                         |             |         |         | TYPE :    | Hermetically 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