



# TRANS TECH HANDELS GMBH

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## TECHNICAL SPECIFICATION

**NAME:** Three - phase oil - immersed transformer according to IEC 60076 – BS 171, with conservator, suitable for outdoor installation, a maximum ambient temperature of 45°C and maximum altitude for installation of 1000 m above sea level, with copper windings, routine test and Tolerance according to IEC60076-BS 171

|                           |   |                                     |        |
|---------------------------|---|-------------------------------------|--------|
| <b>Type</b>               | : TTH 100/33  | <b>Cooling method</b>               | : ONAN |
| <b>Rated Capacity KVA</b> | : 100 KVA   | <b>Operating duty</b>               | : DB   |
| <b>Rated Voltage</b>      | : 33000/415 Volts   | <b>Frequency (Hz)</b>               | : 50   |
| <b>Rated current</b>      | : 1.75/139.12 Amps.   | <b>Mode</b>                         | : LT   |
| <b>Tapping</b>            | : HV side in 6 steps of 2.5%<br>: +5% to -7.5%              | <b>Class of Insulation Material</b> | : A    |
| <b>Vector Group</b>       | : Dyn 11  |                                     |        |
| <b>Neutral Point</b>      | : taken out on LV side with 100% rating inside LV Cable Box |                                     |        |

|  |                      |                   |
|--|----------------------|-------------------|
| <b>No load losses W</b>                          | : 330                | Tolerance : + 15% |
| <b>Load losses at 75°C W</b>                     | : 1950               | Tolerance : + 15% |
| <b>Total losses W</b>                            | : 2280               | Tolerance : + 10% |
| <b>Short circuit voltage At 75°C (Impedance)</b> | : 4.50 %             |                   |
| <b>Oil Quantity (Approx.)</b>                    | : 200 Kg./ 241 Litre |                   |
| <b>Total Weight (Kg)</b>                         | : 740                |                   |

### DIMENSIONS (Approximate)

|                    |        |
|--------------------|--------|
| <b>Length (mm)</b> | : 1030 |
| <b>Width (mm)</b>  | : 905  |
| <b>Height (mm)</b> | : 1830 |

|                                    |                 |                    |
|------------------------------------|-----------------|--------------------|
| <b>Regulation at Rated Current</b> | At U.P.F. 2.03% | At 0.80 P.F. 4.01% |
| <b>Efficiency at Rated Current</b> | At 125% 97.37%  | At 100% 97.77%     |
|                                    | At 75% 98.13%   | At 50% 98.39%      |
|                                    | At 25% 98.22%   | ---                |

**Standard Accessories** : As per GA Drawing 3-100/E-3/1

**Bushings** : HV 3 pcs. IS:3347 similar to DIN 42531  
: LV 4 pcs. IS:3347 similar to DIN 42530 (**Cable Box**)

**Painting** : Standard Transformer Colour or as per customer's requirement

**Notes** : Max. ambient temperature 45°C  
: Max. over temperature of oil 55°C  
: Max. over temperature of winding 65°C  
: Lightning Impulse withstand test 200 KVP  
: Applied Voltage withstand test HV 70 KVRMS  
LV 3 KVRMS

**Inscription** : English

Trans Tech Handels GmbH

Bremen