

TDPro Transformer Design Software

A Systematic Way to Optimize and Generate Effective Design of Transformer to Increase the Efficiency & Profitability of Transformer Manufacturers. TDPro is for automating the Transformer Design process by feeding the basic design inputs. TDPro automatically derives electrical & mechanical parameters, Bill of Quantity and 2D/3D drawings.

TDPro outputs Winding card, Core card, Design Data sheet, Electrical and Mechanical drawings & Cost Sheet. TDPro generates the design dynamically. TDPro complies with all national and international standards. It is useful to design oil cooled distribution and power transformer of rating up to 31.5 MVA / 66KV class.

TDPro includes following modules

- ▣ Transformer basic information
- ▣ Windings and insulation
- ▣ Core and coil assembly
- ▣ Tank, Radiator & Conservator
- ▣ Short Circuit force calculation
- ▣ Bill of material
- ▣ Temperature gradient
- ▣ Noise level

Just input or select basic parameters, and a transformer design is ready!

- ▣ KVA / MVA rating
- ▣ HV & LV voltage
- ▣ Reference Standard
- ▣ Frequency
- ▣ Vector group
- ▣ Tapping range

TDPro automatically computes

- Impedance
- Load loss
- No load loss
- Eddy loss
- Stray loss
- Resistance
- Reactance
- Weight of copper, iron, insulation, oil & transformer
- LV & HV turns
- Core weight stack-wise
- Width & Length of each stack
- Temperature gradients for HV and LV
- Thermal Time Constant
- Withstand short circuits with winding temperature rise
- Total heat to be dissipated and quantity of radiators
- Core details
- Weight of copper with insulation and without insulation
- Conservator size
- Values of Axial and radial forces developed in the windings during short circuits
- Conductor Size
- Conductor Arrangement
- Diameter factor
- No. of HV coils/discs per limb
- Size of HV/LV conductors
- Winding type
- Cooling type
- Blade width of core
- Radiator width & height
- Bill of material
- Flux density
- Short circuit force

TDPro helps you optimize following

- Cost
- Losses
- Tank dimensions
- Efficiency / Stress

Benefits of TDPro

- This is easy to optimize the transformer design for minimizing raw material cost
- It is easier to customize the design based on inventory for faster delivery. One can choose different format(PDF, XLS, WORD etc) for easy access & printing
- Engineering time required to complete a design is reduced to mere minutes. This is especially valuable when you need to get quick and accurate quotations to your customers
- All calculations are done automatically, human errors are eliminated which in turn eliminate associated costs and also alleviates design stress
- Prolific provides product updates and absolutely the best in class technical support and consulting - it does not matter where in the world you are located.