

## Transformer Design By Indrajit Dasgupta



all these segments are carried on a rectangular cross-section aluminum bar. we get a coil in each segment. the number of turns of each winding and the total turns in each segment are as shown in table. the core material for a transformer is steel because of its heat resistance, compactness and other good characteristics. it has very high magnetic permeability. the core and the magnetizing and leakage field winding and electrical insulation are design parameters and have to be optimized. in a standard transformer, the insulating gap is kept to a minimum. we shall provide an insulating gap, hence, the core has to be oversized and somewhat cumbersome. the ratio of leakage or pottting forx to the insigade for a 3 mva transformer is 1.4. the volume of the magnetic material, the number of turns and the cooling method are additional parameters for the design. the thermal coefficient of expansion (tce) of a transformer is usually maintained to a small value. the average primary winding cross-section area required is about 1.2 m2 and we shall not discuss any further on the mechanical form of a coil. the cause of failure may be numerous, but the effect is the burning of coils. in case of repairing a transformer, it is advisable to replace all the old coils with new ones. if the entire active part is available with the repairer, the task is easy. we are then required to measure and test the quantities specified in the test certificate. when the old coils are not available with the repairer, a detailed study of the insulator is required.

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