

PCS Working Group for Continuous Revisions to C57.12.00

WG Item 81

C57.12.00/D2 April 2002 Section 6.7.2 Grounding of Core

Change Requested by : W. J. (Bill) Bergman

Requested Change : This standard states that the core SHALL be grounded to the transformer tank. It does not allow for the option used by some purchasers of installing a resistor in series with the core ground.

Suggest revising the clause to also allow grounding of the core through a resistor to limit any inadvertent circulating current caused by an unintentional core ground.

Section 6.7.2 Grounding of core

The transformer core shall be grounded to the transformer tank for electrostatic purposes.

WG Proposal :

PCS Working Group for Continuous Revisions to C57.12.00

WG Item 82

C57.12.00 - 2000 Section 7.1.4.4 Stabilizing windings

Change Requested by : V. Sankar 5/07/2005 & 10/23/2006

Requested Change : Request to form a task force to discuss the following on buried tertiary and to modify the clause of 7.1.4.4 of C57.12.00 based upon the recommendations of the task force :

- 1) Guidelines to determine MVA rating of buried tertiary.
- 2) To define the conditions under which this MVA is applicable ;
 - (i) is it when the HV or LV is delivering top MVA,
 - (ii) should transformer MVA be vectorial sum or arithmetic sum of buried TV MVA with HV or LV MVA,
 - (iii) is the above applicable for step-down operation or for step-up operation or for both.
- 3) Tests to prove buried TV MVA rating :
 - (i) what should be losses to determine mean oil and top oil rise,
 - (ii) is shut-down needed to determine TV winding gradient.

Section 7.1.4.4 Stabilizing Windings

Stabilizing windings in three-phase transformers (delta-connected windings with no external terminals) shall be capable of withstanding the current resulting from any of the system faults specified in 7.1.1, recognizing the system grounding conditions. An appropriate stabilizing winding kVA, voltage, and impedance shall be provided.

WG Proposal :