Quiz 6 Numerical Problems on Transformer

Questions   Responses   73   Total points: 20

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Quiz 6 Numerical Problems on

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Numerical Problems   ⤢   ⋮

Description (optional)

The O.C and S.C test data are given below for a single phase, 5 kVA, 200V/400V, 50 Hz   *
transformer. O.C test from LV side : 200V 1.25A 150W, S.C test from HV side : 20V 12.5A 175W.
Find Magnetizing component Im and core loss component, Ic. find magnetizing reactance Xm
and core loss resistance Rc referred to LV side.

Short-answer text

The O.C and S.C test data are given below for a single phase, 5 kVA, 200V/400V, 50 Hz   *
transformer. O.C test from LV side : 200V 1.25A 150W, S.C test from HV side : 20V 12.5A 175W.
Find Magnetizing component Im and core loss component, Ic. find Equivalent leakage
reactance Xeq and Equivalent Winding resistance Rc referred to hv side.

Short-answer text

The O.C and S.C test data are given below for a single phase, 5 kVA, 200V/400V,   *
50Hztransformer.O.C test from LV side : 200V 1.25A 150W, S.C test from HV side : 20V 12.5A
175W. Find Magnetizing component Im and core loss component, Ic. find Equivalent leakage
reactance Xeq and Equivalent Winding resistance Rcu referred to LV side.

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The O.C and S.C test data are given below for a single phase, 5 kVA, 200V/400V, 50Hz transformer. O.C test from LV side : 200V 1.25A 150W, S.C test from HV side : 20V 12.5A 175W.Calculate the efficiency of the transformer at 75% loading with load power factor = 0.7   *

Short-answer text

The O.C and S.C test data are given below for a single phase, 5 kVA, 200V/400V, 50Hz transformer. O.C test from LV side : 200V 1.25A 150W, S.C test from HV side : 20V 12.5A 175W.Calculate voltage regulation of the transformer at full load with load power factor = 0.7   *

Short-answer text

The O.C and S.C test data are given below for a single phase, 5 kVA, 200V/400V, 50Hz transformer. O.C test from LV side : 200V 1.25A 150W, S.C test from HV side : 20V 12.5A 175W.Calculate the efficiency of the transformer at full load with load power factor = 0.6   *

Short-answer text