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**Example 10-2:** The equivalent circuit above is for a single phase 25 kVA 7200 - 240 volt transformer. The parameters have the following values:

 $\begin{array}{ll} \mathsf{R}_{\mathsf{p}} = 1.40 \; \Omega \; \; \mathsf{X}_{\mathsf{lp}} = 0.25 \; \Omega \; \; \mathsf{R}_{\mathsf{s}} = 0.11 \; \Omega \; \; \mathsf{X}_{\mathsf{ls}} = 3.20 \; \Omega \\ \mathsf{R}_{\mathsf{fe}} = 19,501 \; \Omega \; \; \mathsf{X}_{\mathsf{m}} = 5011 \; \Omega \end{array}$ 

Convert these values to per unit values based on the current and voltage ratings of the primary and secondary of the transformer. Draw the equivalent circuit with the per unit values labeled.

















$$\begin{aligned} & \int \frac{1}{2} \int_{a} \int \frac{1}{2} \int \frac{$$

















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