

Therefore, the total primary current of this transformer is

$$\mathbf{I}_p = \mathbf{I}_s' + \mathbf{I}_{EX} = 10 \angle -36.87^\circ + 1.37 \angle -72.5^\circ = 11.1 \angle -41.0^\circ \text{ A}$$

The voltage regulation of the transformer at this load is

$$\text{VR} = \frac{V_p - aV_s}{aV_s} \times 100\% = \frac{106.2 - 100}{100} \times 100\% = 6.2\%$$

The input power to this transformer is

$$P_{in} = V_p I_p \cos \theta = (106.2 \text{ V})(11.1 \text{ A}) \cos 2.6^\circ \quad (41.0^\circ)$$

$$P_{in} = (106.2 \text{ V})(11.1 \text{ A}) \cos 43.6^\circ = 854 \text{ W}$$

The output power from this transformer is

$$P_{out} = V_s I_s \cos \theta = (200 \text{ V})(5 \text{ A}) \cos(36.87^\circ) = 800 \text{ W}$$

Therefore, the transformer's efficiency is

$$\eta = \frac{P_{out}}{P_{in}} \times 100\% = \frac{800 \text{ W}}{854 \text{ W}} \times 100\% = 93.7\%$$

- 2-2. A 20-kVA 8000/480-V distribution transformer has the following resistances and reactances:

$$\begin{array}{ll} R_p = 32 \Omega & R_s = 0.05 \Omega \\ X_p = 45 \Omega & X_s = 0.06 \Omega \\ R_c = 250 \text{ k}\Omega & X_M = 30 \text{ k}\Omega \end{array}$$

The excitation branch impedances are given referred to the high-voltage side of the transformer.

- (a) Find the equivalent circuit of this transformer referred to the high-voltage side.
 (b) Find the per-unit equivalent circuit of this transformer.
 (c) Assume that this transformer is supplying rated load at 480 V and 0.8 PF lagging. What is this transformer's input voltage? What is its voltage regulation?
 (d) What is the transformer's efficiency under the conditions of part (c)?

SOLUTION

- (a) The turns ratio of this transformer is $a = 8000/480 = 16.67$. Therefore, the secondary impedances referred to the primary side are

$$R_s' = a^2 R_s = (16.67)^2 (0.05 \Omega) = 13.9 \Omega$$

$$X_s' = a^2 X_s = (16.67)^2 (0.06 \Omega) = 16.7 \Omega$$

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