

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

$$\begin{aligned} P_{in} &= V_P I_P \cos \theta = (106.2 \text{ V})(11.1 \text{ A}) \cos 41.0^\circ \\ &= (106.2 \text{ V})(11.1 \text{ A}) \cos 43.6^\circ = 854 \text{ W} \end{aligned}$$

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

$$\begin{aligned} R_S' &= a^2 R_S = (16.67)^2 (0.05 \Omega) = 13.9 \Omega \\ X_S' &= a^2 X_S = (16.67)^2 (0.06 \Omega) = 16.7 \Omega \end{aligned}$$

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