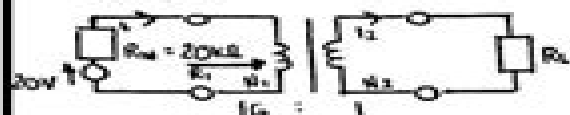


- 2.) AN AC SOURCE OF 20V AND INTERNAL RESISTANCE $20k\Omega$ IS MATCHED TO A LOAD BY A 1G:1 SINGLE PHASE TRANSFORMER. DETERMINE (a) THE VALUE OF THE LOAD RESISTANCE AND (b) THE POWER DISSIPATED IN THE LOAD.

GIVEN:



FIND:

- a) R_L
b) P_L

SOLUTION:

$$a) R_L = \left(\frac{N_1}{N_2}\right)^2 R_s$$

$$R_L = R_s \left(\frac{N_2}{N_1}\right)^2 = 20 \times 10^3 \left(\frac{1}{10^3}\right)^2$$

$$\boxed{R_L = 78.125 \Omega}$$

$$b) R_{eq} + R_s = 20k\Omega + 20k\Omega = 40k\Omega$$

$$I_1 = \frac{V}{R_{eq} + R_s} = \frac{20}{40 \times 10^3} = 0.5 \text{ mA}$$

$$\frac{N_1}{N_2} = \frac{I_2}{I_1}$$

$$I_2 = I_1 \left(\frac{N_1}{N_2}\right) = (0.5 \times 10^{-3}) \left(\frac{10^3}{1}\right) = 8 \text{ mA}$$

$$P_L = (I_2)^2 R_L = (8 \times 10^{-3})^2 (78.125)$$

$$\boxed{P_L = 5 \text{ mW}}$$

- 3.) A SINGLE-PHASE AUTO TRANSFORMER HAS A VOLTAGE RATIO OF 480 V : 300 V AND SUPPLIES A LOAD OF 30 KVA AT 300 V. ASSUMING AN IDEAL TRANSFORMER, CALCULATE THE CURRENT IN EACH SECTION OF THE WINDING.

GIVEN: $V_1 = 480\text{V}$

$V_2 = 300\text{V}$

RATING = 30 KVA

SOLUTION:

PRIMARY CURRENT $I_1 = \frac{30 \times 10^3}{480} = \boxed{62.5 \text{ A}}$

SECONDARY CURRENT $I_2 = \frac{30 \times 10^3}{300} = \boxed{100 \text{ A}}$

CURRENT IN COMMON PART OF WINDING = $I_2 - I_1 = 100 - 62.5$

$$\boxed{= 37.5 \text{ A}}$$

FIND:

CURRENT IN EACH SECTION

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