

- 25** A transformer with turns ratio of primary to secondary coil of 20:1 is 95% efficient due to joule heating effects. A 240 V alternating voltage is connected to the primary coil and a $5.0\ \Omega$ resistor is connected to the secondary coil.

What is the current flowing in the primary coil?

- A** 0.120 A
- B** 0.126 A
- C** 2.40 A
- D** 48.0 A