

an electric iron consumes energy at a rate of 750 W when heating is at the maximum. the voltage is 220V. find the current and resistance.

Solution

$$P = UI = \frac{U^2}{R} \gg I = \frac{P}{U} = \frac{750}{220} = 3,4 \text{ A}, R = \frac{U}{I} = \frac{220}{3,4} = 64,7 \Omega$$