

(P2) An electric lift is required to raise a load of 10 tons through a height of 60m. 25% of energy supplied to the lift is lost in the motor and gearing. Calculate the energy in kWh supplied. If time req. to raise the load is 54 min, find the kW rating of the motor and current taken by the motor. Supply voltage: 220V DC. Assume  $\eta$  of motor = 80%.

$$\text{Work done by the lift} = mgh = (10 \times 10^3) \times 9.8 \times 60 = 5.88 \times 10^6 \text{ J}$$

$$\text{I/p energy to the lift} = \text{O/P} / \eta$$

$$\eta = 1 - 0.25 = 0.75$$

$$I = \frac{P}{V}$$

$$= 5.88 \times 10^6 / 0.75 = 7.84 \times 10^6$$

$$= 7.84 \times 10^6 / 3.6 \times 10^6 = 2.18 \text{ kWh} = \frac{3024.69}{2200}$$

$$1 \text{ kWh} = 3.6 \times 10^6 \text{ J}$$

$$I = 13.75 \text{ A}$$

$$\text{O/P} = \text{I/p energy to lift} = 7.84 \times 10^6$$

$$\text{Energy I/p} = 7.84 \times 10^6 / 0.8 = 9.8 \times 10^6 \text{ J}$$

$$\text{Power rating of motor} = 9.8 \times 10^6 / 54 \times 60 = 3024.69 \text{ W or } 3.25 \text{ kW}$$

$$4.36 \text{ HP} \approx 5 \text{ HP}$$

# Electrical Engineering Word Problems

**A Loxley**



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