

13 A motor of power 10 W is used to lift a load of 20 N. The efficiency of the motor is 25 %. How long does it take to lift the load through a vertical distance of 0.50 m?

A 0.040 s

B 0.25 s

C 4.0 s

D 39 s

14 A direct current motor takes 12 V from the battery. The total resistance of the motor is 5 Ω.