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An electric motor lifts a 350 kg mass through a vertical height of 110 m in 3.0 minutes at a constant speed. During the lifting process, a resistive force of 1000 N acts constantly on the mass.

What is the power delivered by the electrical motor?

A

1.5 kW

B

2.1 kW

C

2.7 kW

D

11 kW