38. (a) The rotational inertia of the three blades (each of mass $m$ and length $L$) is

$$I = 3\left(\frac{1}{3}mL^2\right) = mL^2 = (240\,\text{kg})(5.2\,\text{m})^2 = 6.49 \times 10^3\ \text{kg}\cdot\text{m}^2\ .$$

(b) The rotational kinetic energy is

$$\begin{aligned} K &= \frac{1}{2}I\omega^2 \\ &= \frac{1}{2}\left(6.49 \times 10^3\,\text{kg}\cdot\text{m}^2\right)\left((350\,\text{rev/min})\left(\frac{2\pi\,\text{rad/rev}}{60\,\text{s/min}}\right)\right)^2 \\ &= 4.36 \times 10^6\ \text{J} = 4.36\ \text{MJ}\ . \end{aligned}$$