Line current:

\[ I_{RMS} = \frac{(50 \text{ HP})(746 \text{ Kw/HP})}{\sqrt{3}(480)(0.88)(1.85)} \]

\[ = 59.98 \text{ Amps RMS} \]

So, the wiring must handle steady-state load current of 60A. NEC requires at least 25% design margin, so \( \geq 75A \). Other issues are that CB must not trip off upon motor starting, and additional design margins may be required for motor overloading.