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What is the power converted from electrical to mechanical form?

The power converted from electrical to mechanical form is $P_{\text{conv}} = 232.4 \text{ V} \times 50.7 \text{ A} = 11,780 \text{ W}$. This is also the output power of the motor. The induced torque is

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functions that are discussed in detail in "Electric Power Systems: Design and Analysis" such as Power Flow, Stability, optimal operation of power systems, are discussed briefly in this chapter. Chapter 9 is new to this book, and offers a brief discussion of the Present and Future of Electric Energy Systems.

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A synchronous machine can supply real power to or consume real power from a power system and can supply reactive power to or consume reactive power from a power system. All four combinations of real and reactive power flows are possible, and Figure 5- 20 shows the phasor diagrams for these conditions.

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