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Figure 1–2. (a) 75A (b)
80A (c) 100A (d) 125A

Answer: (c) 100A. Step
1: Convert 125 percent
to a decimal: 1.25 Step
2: Multiply the value of
the 80A load by 1.25 =

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100A. c Example 2.

Question: The maximum continuous load on an overcurrent device is limited to 80 percent of the device rating.

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Amperes Volts x

Amperes Kilowatts =

1000 Volts x Amperes x

hours Kilowatt-hours =

1000 Eff Efficiency

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Torque_{in_lb} x Speed in

RPM Horsepower =

63,025 Torque_{ft_lb} x

Speed in RPM

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Amp – amps are the
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units of current. One amp represents how much current one volt can push through one ohm of resistance. Watt – a watt is one unit of electrical power or energy. One amp and one volt will produce one watt. This means that one amp of current being forced by one volt will produce one watt of power.

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the parameter value in

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any electrical circuits.

Most commonly used electrical formulas are formulas related to voltage, current, power, resistance etc. Volt is a unit of electrical potential or motive force – the potential is required to send one ampere of current through one ohm of resistance. Watt is a unit of electrical energy or

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power – one watt is the product of one ampere and one volt – one ampere of current flowing under the force ...

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$/ P_{input_w}$ (6) where. η

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$P_{\text{input_w}} = \text{input}$
electrical power (watts)
or alternatively. $? = 746$

$P_{\text{hp}} / (1.732 V I \text{ PF})$

(6b) Electrical Motor -

Power. $P_{\text{3-phase}} = (U I \text{ PF } 1.732) / 1,000$ (7)

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stamped on the bottom or back of the appliance, or on its nameplate. The wattage listed is the maximum power drawn by the appliance.

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