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POWER EQUATION P

$= 2 \pi n t / 60$ - Why ?

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Sheet. Probability.
Conditional
Probability. Binomial
Probability (order
doesn't matter) P.
k(= binomial

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Probability of k
successes in n trials p
= probability of a
success $-p =$
probability of failure
 $k =$ number of
successes $n =$
number of trials.

Independent Events.
 $P(A \text{ and } B \text{ and } C) = P.$
 $A.$

Engineering Formula
Sheet

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$$Z = \sqrt{R^2 + XL^2} \quad Z = \sqrt{R^2 + XC^2}$$
$$Z = \sqrt{R^2 + (XL - XC)^2}$$

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q = heat transferred
per unit time (W,
Btu/hr) A = heat
transfer area of the
surface (m^2 , ft^2) h_c
= convective heat
transfer coefficient of
the process ($W / (m^2$
K) or $W / (m^2 \cdot ^\circ C)$,

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Btu/(ft² h...
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capacity Capacitive
reactance Chopping
current Conductance
Coulomb Current
Current in AC circuits
[Single phase]
Current in AC circuits
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Potential Flight Time.
Trip Fuel
Consumption. Push /
Pull Hydraulic
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to Horsepower (hp)
Horsepower (hp) to
Torque Equivalent
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Capacitance - Series
& Parallel Circuit
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Circuits Author: X

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Electric energy is
power multiplied
with time: $W = P t$ (5)

where. $W =$ energy
(Ws, J) $t =$ time (s)

Alternative - power
can be expressed. $P =$
 W / t (5b) Power is
consumption of
energy by
consumption of time.

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Formulas & Equations

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Quantities Formulas

Ohm ' s, Kirchhoff ' s

& Coulomb ' s Laws

– Formulas Voltage

& Current Divider

Rules (VDR & CDR)

Equations Power

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Formulas in DC & AC
Single & Three-Phase
Circuits Resistance,
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Watts = amperes² x
ohms. Watts = volts x

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amperes. Amperes (I):

Amps = volts / ohms.

Amps = watts / volts.

Amps = square root
of (watts / ohms) AC

Motor Formulas: E =
voltage / I = amps / W

= watts / PF = power
factor / Eff =

efficiency / HP =

horsepower. Single

Phase:

Basic Electrical

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Formulas | Flodraulic Group

Electrical formulas play a great role in finding the parameter value in 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

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motive force – the potential is required to send one ampere of current through one ohm of resistance.

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