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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

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transfer coefficient of
the process ($W/ (m^2 K)$ or $W/ (m^2 o C)$,
 $Btu/ (ft^2 h...$

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Cylinder Blind End

Area = 28.26 square
inches. Pounds of

Force Needed /

Cylinder Area =

$50,000 / 28.26 =$

1,769.29 PSI. What

pressure is needed to

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develop 50,000 pounds of pull force from a 6 diameter cylinder which has a 3: diameter rod?

Pounds of Force =
50,000 pounds.

Cylinder Rod End
Area = 21.19 square
inches.

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Formulas $T F =$

Efficiency $d = d 00$

Energy: Work $W =$

work $F = \text{force } d =$

distance Fluid

Mechanics $1 T ' L$

Power (Guy- $L ' L P 1$

$V 1 = P 2 V 2 B y ' L$

$Q = A v A 1 v 1 = A 2 v$

$2 + V \text{ absolute}$

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pressure = gauge

pressure +

atmospheric pressure

P = absolute pressure

Force A = Area V =

volume T T =

absolute temperature

Q = flow rate

Engineering Formula
Sheet

Efficiency Of DC

Motor: Electrical

Efficiency: $e =$

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Converted power in
armature / Input
electrical Power.

Mechanical

Efficiency: $\eta_m =$

Converted power in
armature / output
mechanical power.

Overall Efficiency:

$=$ Output mechanical
Power / Input
electrical Power. $=$

$(\text{Input Power} - \text{Total losses}) / \text{Input Power}.$

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Functions perform the most commonly used engineering calculations, many of which relate to Bessel Functions, Complex Numbers or converting between different bases. Engineers may also find the Excel Math and Trig functions useful.

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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

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consumption of time.

Formulas

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Basic Voltage,

Current, Power and

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in AC and DC Circuits.

Following are the

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formulas and

equations for the

basic quantities i.e.

current, voltage,

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power, resistance and impedance in both DC and AC circuits (single phase and three phase).

Basic Electrical
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Formulas and
Equations

2. Use Named Ranges
to Make Formulas
Easier to Understand.
Engineering is

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Challenging enough, without trying to figure out what an equation like $(G15+\$C\$4)/F9-H2$ means. To eliminate the pain associated with Excel cell references, use Named Ranges to create variables that you can use in your formulas.

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half the size. A

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book is devoted to an unbelievably complete collection of chapters on mathematics which, as most engineers know, will come in extremely handy sooner or later.

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