

Information

Electrical Formulae			
To Obtain	Alternating Current		
	Single-Phase	Three-Phase	Direct Current
Kilowatts	$\frac{V \times I \times P.F.}{1000}$	$\frac{1.732 \times V \times I \times P.F.}{1000}$	$\frac{V \times I}{1000}$
KV.A	$\frac{V \times I}{1000}$	$\frac{1.732 \times V \times I}{1000}$	
Horsepower required when KW known (Generator)	$\frac{KW}{.746 \times \text{EFF. (GEN)}}$	$\frac{KW}{.746 \times \text{EFF. (GEN)}}$	$\frac{KW}{.746 \times \text{EFF. (GEN)}}$
KW input when HP known (motor)	$\frac{HP \times .746}{\text{EFF. (Mot)}}$	$\frac{HP \times .746}{\text{EFF. (Mot)}}$	$\frac{HP \times .746}{\text{EFF. (Mot)}}$
Amperes when HP known	$\frac{HP \times 746}{V \times P.F. \times \text{EFF.}}$	$\frac{HP \times 746}{V \times P.F. \times \text{EFF.} \times P.F.}$	$\frac{HP \times 746}{V \times \text{EFF.}}$
Amperes when KW known	$\frac{KW \times 1000}{V \times P.F.}$	$\frac{KW \times 1000}{1.732 \times V \times P.F.}$	$\frac{KW \times 1000}{V}$
Amperes when KV.A known	$\frac{KV.A \times 1000}{V}$	$\frac{KV.A \times 1000}{1.732 \times V}$	