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Electrical Formulas

Variable	Word Formula w/Units	Simplified Formula
Resistance - R	Ohms = Volts/Ampere	$R = \frac{V}{I}$
Ampere - I	Ampere = Volts/Ohms	$I = \frac{V}{R}$
Volts - E	Volts = Ampere x Ohms	$E = I \times R$
% Efficiency - %EM	$\%EM = \frac{\text{Total Output Horsepower}}{\text{Input Watts}}$	$\%EM = \frac{746 \times I \times PF}{W_{in}}$
Single Phase		
Kilowatts - KW	$KW = \frac{\text{Volts} \times \text{Ampere} \times \text{Power Factor}}{1000}$	$KW = \frac{E \times I \times PF}{1000}$
Ampere - I	$I = \frac{\text{Total Horsepower} \times 746 \times \text{Efficiency} \times \text{Power Factor}}{\text{Volts}}$	$I = \frac{746 \times HP}{E \times \%EM \times PF}$
% Efficiency - %EM	$\%EM = \frac{746 \times I \times \text{Power Factor}}{\text{Volts} \times \text{Ampere} \times \text{Power Factor}}$	$\%EM = \frac{746 \times I \times PF}{E \times I \times PF}$
Power Factor - PF	$PF = \frac{\text{Watts}}{\text{Volts} \times \text{Ampere}}$	$PF = \frac{W}{E \times I}$
Three Phase		
Kilowatts - Kw	$KW = \frac{\text{Volts} \times \text{Ampere} \times \text{Power Factor} \times 1.732}{1000}$	$KW = \frac{E \times I \times PF \times 1.732}{1000}$
Volt-Ampere - VA	$VA = \text{Volts} \times \text{Ampere} \times 1.732$	$VA = E \times I \times 1.732$
Ampere - I	$I = \frac{\text{Total Horsepower} \times 746 \times \text{Efficiency} \times \text{Power Factor} \times 1.732}{\text{Volts}}$	$I = \frac{746 \times HP}{E \times \%EM \times PF \times 1.732}$
% Efficiency	$\%EM = \frac{746 \times I \times \text{Power Factor} \times 1.732}{\text{Volts} \times \text{Ampere} \times \text{Power Factor} \times 1.732}$	$\%EM = \frac{746 \times I \times PF}{E \times I \times PF \times 1.732}$
Power Factor - PF	$PF = \frac{\text{Watts}}{\text{Volts} \times \text{Ampere} \times 1.732}$	$PF = \frac{W}{E \times I \times 1.732}$
Horsepower		
Horsepower (1 Ph)	$HP = \frac{\text{Volts} \times \text{Ampere} \times \text{Efficiency} \times \text{Power Factor}}{746}$	$HP = \frac{E \times I \times \%EM \times PF}{746}$
Horsepower (3 Ph)	$HP = \frac{\text{Volts} \times \text{Ampere} \times 1.732 \times \text{Efficiency} \times \text{Power Factor}}{746}$	$HP = \frac{E \times I \times 1.732 \times \%EM \times PF}{746}$
Power DC Circuits		
Watts (W)	Watts = Volts x Ampere	$W = EI$
Ampere - I	Ampere = Watts / Volts	$I = W/E$
Horsepower - HP	$HP = \frac{\text{Volts} \times \text{Ampere} \times \text{Efficiency}}{746}$	$HP = \frac{E \times I \times \%EM}{746}$

Minimum Working Clearances

Nominal Voltage to Ground	Condition		
	1	2	3
	Minimum Clear Distance (ft.)		
0-250 V	3	3	3
251 - 600 V	3	3.5	4
601 - 2500 V	3	4	5
2501 - 8000 V	4	5	6
8001 - 25000 V	5	6	8
25000 V - 75 kV	6	8	10
Above 75 kV	8	10	12

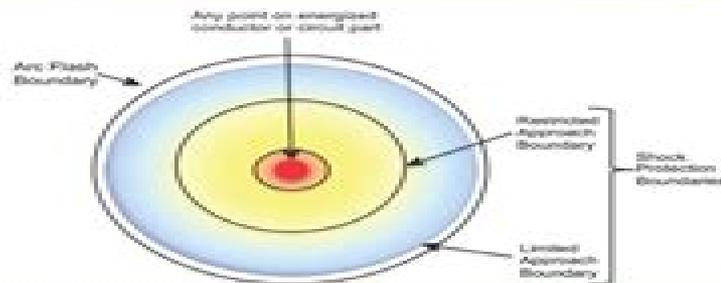
Condition 1 - Exposed live parts on one side of the working space and no live or grounded parts on the other. Exposed live parts on both sides that effectively guard by insulating materials.

Condition 2 - Exposed live parts on one side of the work space and grounded parts on the other. Concrete, brick, and tile walls are considered grounded.

Condition 3 - Exposed live parts on both sides of the work space.

Refer to NEC® Table 110.34 (A) for additional information.

Flash/Shock Boundaries & PPE



Note: Per NFPA 70E® Article 130.5(A) Arc Flash Boundary for systems ≤ 50 volts shall be the distance at which the incident energy equals 1.2 cal/cm².

Current vs. Sensation Results

Current	Sensation
0.3 to 3 milliamperes	Tingling
3 to 20 milliamperes	Muscle contraction and pain
20 to 40 milliamperes	"Let-go" threshold
40 to 75 milliamperes	Respiratory paralysis
75 to 200 milliamperes	Myocardial fibrillation
200 to 500 milliamperes	Heart clamps tight
5.5 amps	Tissue and organs start to burn

The length of time a body is exposed to electrical current, as well as the path of the current through the body, will determine the severity of electrical shock. When a person becomes electrocuted, care must be exercised to keep the rescue personnel from becoming part of the electrical circuit; otherwise, a rescuer may also become injured.

Energized Electrical Work Permit

When energized work is permitted in accordance with 330.2(A), an energized electrical work permit shall be required under the following conditions:

- When work is performed within the restricted approach boundary
- When the employee interacts with the equipment when conductors or circuit parts are not exposed but an increased likelihood of injury from an exposure to an arc flash hazard exists

Required by OSHA / 29 CFR

- If the voltage is greater than 50 volts
- If equipment can not be placed in an electrically safe work condition
- Work is considered energized electrical work and can be performed by written permit only
- Can only be filled out by qualified persons
- Example of Work Permit in Annex J of the NFPA 70E®

Exceptions

- Testing, troubleshooting, and voltage measuring
- Thermography and visual inspections if the restricted approach boundary is not crossed
- Access to and egress from an area with energized electrical equipment if no electrical work is performed and the restricted approach boundary is not crossed
- General housekeeping and miscellaneous non-electrical tasks if the restricted approach boundary is not crossed

OSHA 29 CFR 1910.333(c)(2)

Work on energized equipment. Only qualified persons may work on electric circuit parts or equipment that have not been de-energized under the procedures of paragraph (b) of this section. Such persons shall be capable of working safely on energized circuits and shall be familiar with the proper use of special precautionary techniques, personal protective equipment, insulating and shielding materials, and insulated tools.

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Ying Liu



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