1 / 12 · Definitions, Theory, and Plans

Where do you find NEC defined terms?

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2 / 12 · Definitions, Theory, and Plans

Ohm's law in three forms?

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3 / 12 · Definitions, Theory, and Plans

Power formulas for single-phase and three-phase loads?

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4 / 12 · Definitions, Theory, and Plans

Amperes for a 24 kVA, 208 V, three-phase load?

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5 / 12 · Definitions, Theory, and Plans

What does the resistance of a conductor do as length and size change?

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6 / 12 · Definitions, Theory, and Plans

Total resistance of resistors in series?

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2 / 12 · Definitions, Theory, and Plans

E = I x R, I = E / R, R = E / I. Volts, amperes, ohms.

Electrical theory (no NEC section)

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1 / 12 · Definitions, Theory, and Plans

Article 100. Check there first when a question turns on a defined term.

Article 100

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4 / 12 · Definitions, Theory, and Plans

24,000 / (208 x 1.732) = 66.6 A.

Electrical theory (no NEC section)

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3 / 12 · Definitions, Theory, and Plans

Single-phase VA = V x A. Three-phase VA = V x A x 1.732. Watts = VA x power factor.

Electrical theory (no NEC section)

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6 / 12 · Definitions, Theory, and Plans

Add them. Current is the same through each.

Electrical theory (no NEC section)

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5 / 12 · Definitions, Theory, and Plans

Resistance rises with length and falls as the conductor gets larger.

Electrical theory (no NEC section)

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7 / 12 · Definitions, Theory, and Plans

Two equal resistors in parallel?

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8 / 12 · Definitions, Theory, and Plans

Two 12 ohm resistors in parallel. Total?

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9 / 12 · Definitions, Theory, and Plans

What does a continuous load mean in the NEC?

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10 / 12 · Definitions, Theory, and Plans

Where do you learn what a plan symbol means?

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11 / 12 · Definitions, Theory, and Plans

A plan scale of 1/4 in. = 1 ft. A line measures 6 in. What length?

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12 / 12 · Definitions, Theory, and Plans

Continuous vs noncontinuous: what separates them, and what changes in the sizing?

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8 / 12 · Definitions, Theory, and Plans

12 / 2 = 6 ohms.

Electrical theory (no NEC section)

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7 / 12 · Definitions, Theory, and Plans

The total is half of one. Voltage is the same across each.

Electrical theory (no NEC section)

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10 / 12 · Definitions, Theory, and Plans

The legend defines each symbol. Read the legend and the general notes before the sheets.

Plan reading (no NEC section)

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9 / 12 · Definitions, Theory, and Plans

A load expected to run for 3 hours or more.

Article 100

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12 / 12 · Definitions, Theory, and Plans

Duration. Continuous means the maximum current is expected to run 3 hours or more. Only the continuous part gets the extra margin (125% in the usual exercise), and the noncontinuous part counts at 100%.

NEC Article 100, Continuous Load (section text not re-read for 2026)

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11 / 12 · Definitions, Theory, and Plans

24 ft.

Plan reading (no NEC section)

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