

N2 Electrical Trade Theory

Module 1: Alternating current circuit theory



DEFINITIONS

Alternating current (AC) – an electric current that reverses its direction many times a second at regular intervals

Average value – the average of all instantaneous values during one cycle of a sine wave

Capacitive reactance – the opposition that is offered to the flow of current in a capacitive circuit when an AC passes through it (X_C)

Conductor – a substance or material that can freely conduct the flow of charge carriers in the form of electrons from one atom to another in a specific material

Cycle – each repetition of a variable quantity, recurring at equal intervals

Delta connection – when three coils are connected in series to form a closed loop

Effective (or RMS) value of an AC – that value of AC that produces the same amount of heat energy, at the same rate, as a DC would, if passed through an identical resistance

Form factor – the ratio of the RMS value of a voltage or current to the average value of the voltage or current wave

Generator – a device that converts mechanical energy into electrical energy

Impedance – the total opposition impeding the passage of an AC in a circuit comprising combinations of resistors and reactances (Z)

Inductive reactance – the opposition that is offered to the flow of current in an inductive circuit when an AC flows through it (X_L)

Instantaneous voltage or current – the instantaneous value of voltage or current reached by a waveform at any instance in time

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