



NATIONAL CERTIFICATE ELECTRICAL TRADE THEORY N3

(11041263)

28 November 2023 (X-paper)
09:00–12:00

Drawing instruments and nonprogrammable calculators may be used.

This question paper consists of 6 pages and a 1-page formula sheet.

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QUESTION 1: ALTERNATING CURRENT CIRCUIT THEORY

- 1.1 Three-phase motors are cheaper and smaller for the same power rating than single-phase motors.



State THREE other advantages of three-phase motors over single-phase motors.

(3)

- 1.2 Prove that total power in a balanced star or delta system are both equal to $\sqrt{3} V_L I_L \cos \theta$

(5)

- 1.3 An alternating current is represented by a non-sinusoidal waveform and has the following ordinates:

Phase angle in degrees	0°	30°	60°	90°	120°	150°	180°
Current in amperes	0	28	33	35	28	9,5	0

Without drawing the waveform, determine the following:

- 1.3.1 The average value

(6)

South African N1 2014 Question Papers Electric Trade Theory

Ensheng Dong



South African N1 2014 Question Papers Electric Trade Theory:

N2 Electrical Trade Theory Tommy Ferreira, 2018 Electrical Trade Theory N2 Student's Book SA Chuturgoon, 2021

N3 Electrical Trade Theory ,2018

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