



**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

**K Morrison**



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