

EXAMINATION: AUTHORISATION B

September 2022

Practical Test

Time Allowed – 1½ Hr

Name & Surname _____
(In Block letters)

Index No. _____

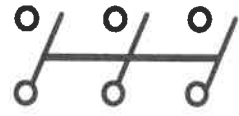
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1. a) Why is a starter required for a three-phase induction motor? **(5 marks)**
 - b) What features do such starters include in their control gear? **(5 marks)**
 - c) Draw a single-line diagram showing the control gear required for a three-phase motor circuit from the distribution board up to the motor. **(5 marks)**
 - d) What factors need to be considered before selecting a motor for an application? **(5 marks)**
 - e) Figure 1 shows a block diagram of a motor starter. What type of starter does it represent? **(2 marks)**
 - f) Draw the control circuit for the motor starter shown in **Figure 1**. **(18 marks)**

Note:

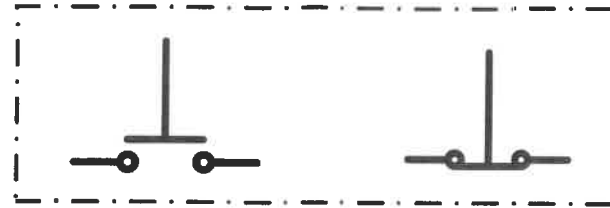
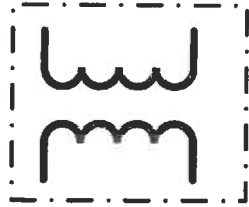
1. All diagrams must be neat, clear and fully labelled.
2. For safety reasons the control circuit is to be supplied from a 400/24V AC step down transformer.

Supply 400V

L1 L2 L3



Transformer
400/24 V



Remote Station

