

EXAMINATION : AUTHORISATION B

September 2018

Practical Test

Time Allowed - 1Hr

Name & Surname _____
(In Block letters)

Index No. _____

- a. Why do we require a starter to start a three-phase induction motor? **(5 marks)**
- b. Mention and describe in point form what protection such starters should have as per IET regulations? **(5 marks)**
- c. Draw the Power and Control circuit for a 3 phase Direct on-Line motor starter and show how you would add a Remote Start and a Remote Stop button to the circuit. Mark the drawing appropriately **(30 marks)**

Note:

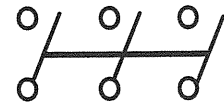
1. All diagrams must be neat, clear and fully labelled.
2. For safety reason the control circuit is to be supplied from a 400/24V AC step down transformer.

END OF PAPER

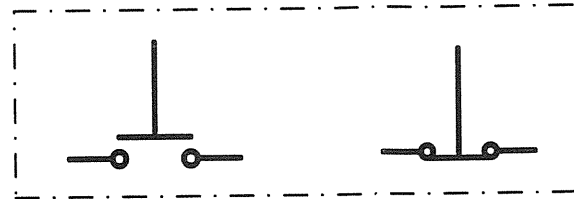
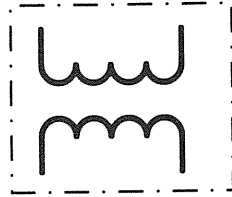
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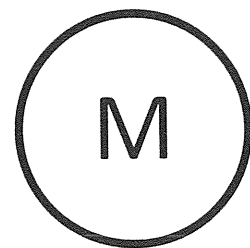
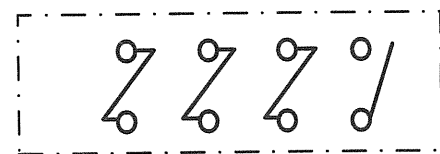
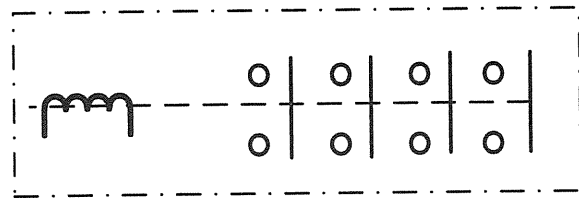
Supply 400V
L1 L2 L3



Transformer
400/24 V



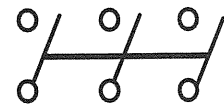
Remote Station



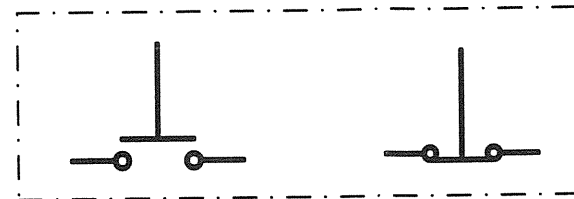
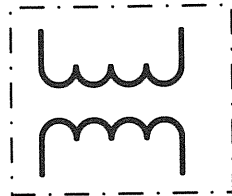
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Supply 400V
L1 L2 L3



Transformer
400/24 V



Remote Station

