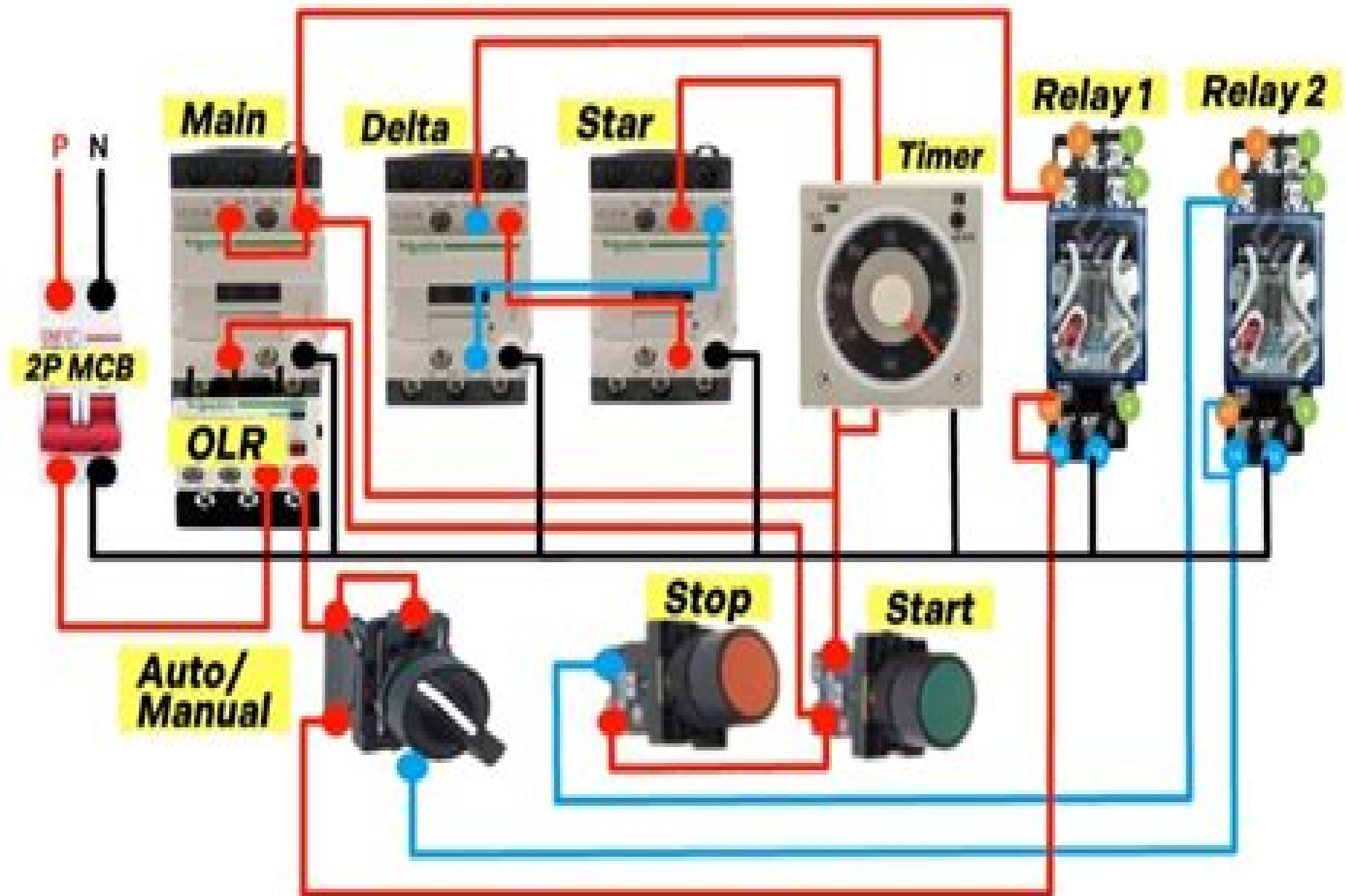


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control and programmable controllers have been included keeping in view the latest developments in modern industry Relay and static control have been dealt with in details Most of the control circuits included in this book have been taken from Indian industry A chapter has been devoted to protection of motors and troubleshooting in control circuits The chapter on PLC has been made very elaborate to deal with all aspects of logic controllers Review questions have been included at the end of each chapter The explanations of circuits and design procedure of control circuits have been made very simple to help students understand easily Students teachers and shop floor and design office engineers will find this book a very useful companion

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 exothermic producing up to 235 kcal mole for lithium fluoride the alkali metals react with nonmetals in groups 15 and 16 va
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 temperature 2 the beaker now contains sodium chloride and water and the

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 measure an appropriate volume of each liquid eg 25 cm³ place one of the

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web for reactions involving acetic acid or ammonia the measured enthalpy change of neutralization is a few kJ less
 exothermic than with strong acids and bases for example one source which gives the enthalpy change of neutralization of
 sodium hydroxide solution with hcl as 57.9 kJ mol⁻¹

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 eg 1 hcl aq + naoh aq → nacl aq + h₂o l for which ΔH = 57 kJ mol⁻¹ eg 2 h₂no₃ aq + koh aq → kno₃ aq + h₂o l for which ΔH = 57 kJ mol⁻¹

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together to produce one mole of water for example $\text{hcl aq} + \text{naoh aq} \rightarrow \text{nacl aq} + \text{h}_2\text{o aq}$ you can see that one mole of water is produced when one mole of hcl or one mole of naoh reacts

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