ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỒ CHÍ MINH
TRƯỜNG ĐẠI HỌC BÁCH KHOA
KHOA CƠ KHÍ
BỘ MÔN CƠ ĐIỆN TỬ

TRANG BỊ ĐIỆN - ĐIỆN TỬ TRONG MÁY CÔNG NGHIỆP

EXERCISE 4

GVHD: TS. LÊ ĐỨC HẠNH

DANH SÁCH THÀNH VIÊN:

STT	Họ và tên	MSSV
1	Võ Hữu Dư	2210604
2	Dương Quang Duy	2210497
3	Trần Quang Đạo	2210647

TP.HCM, Ngày 5 tháng 12 năm 2024

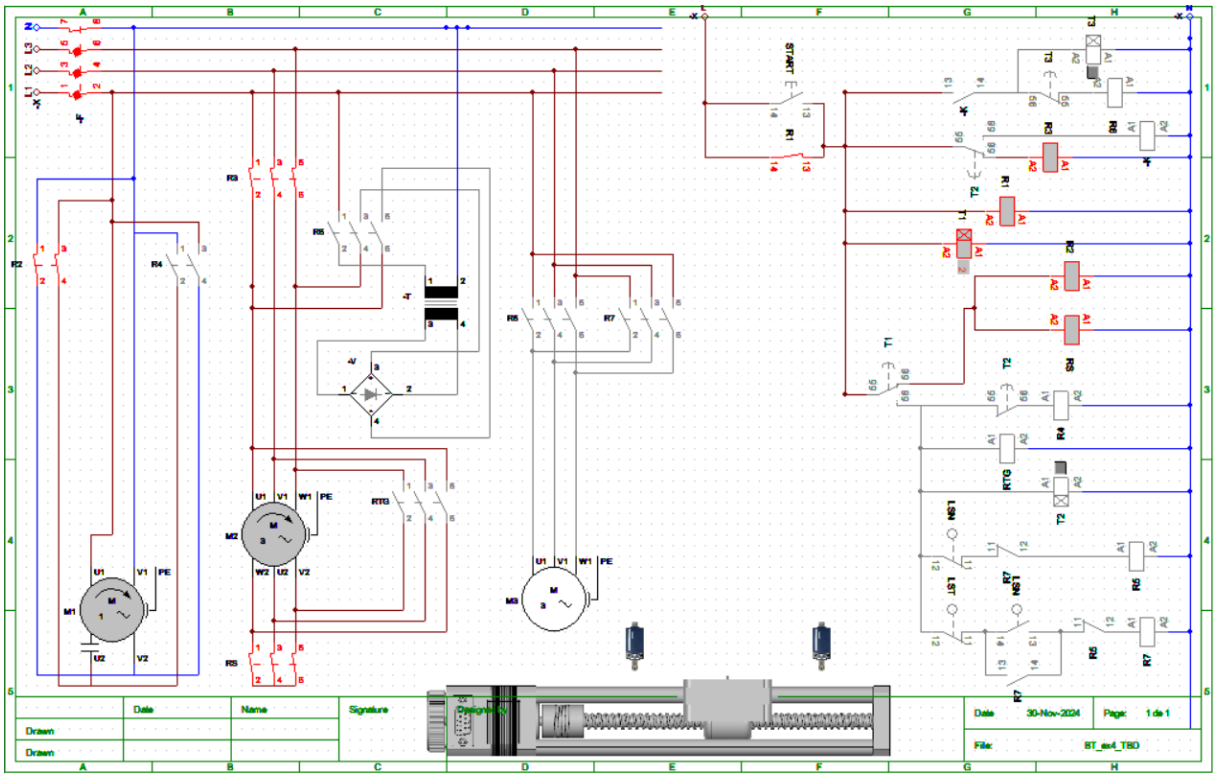
Mục lục

1 Design a control circuit for described operation below:

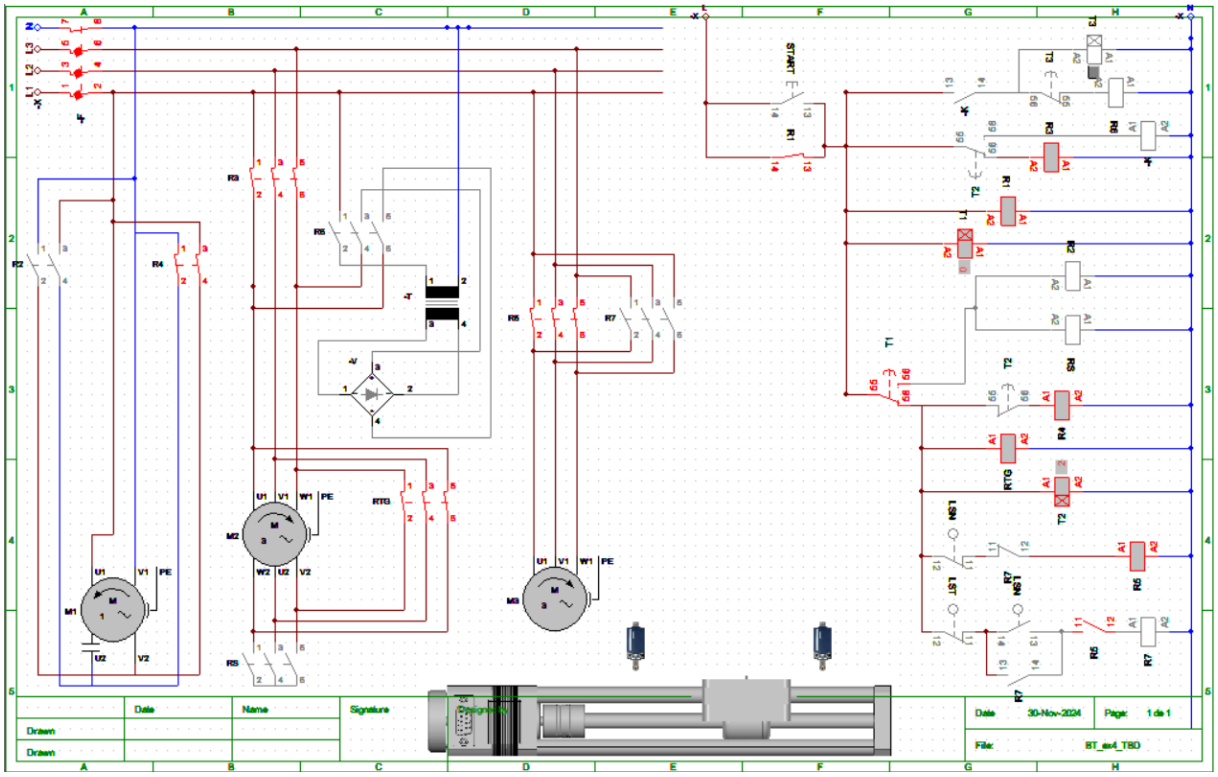
1.1 Push button start.

1.1.1 Motor 1 (AC1phase), Motor2(3phase) run in star mode, after 5s motor 1 change direction, motor 2 change from star to delta, motor 3 start running.

Motor 1 (AC1phase), Motor 2 (3phase) run in star mode:

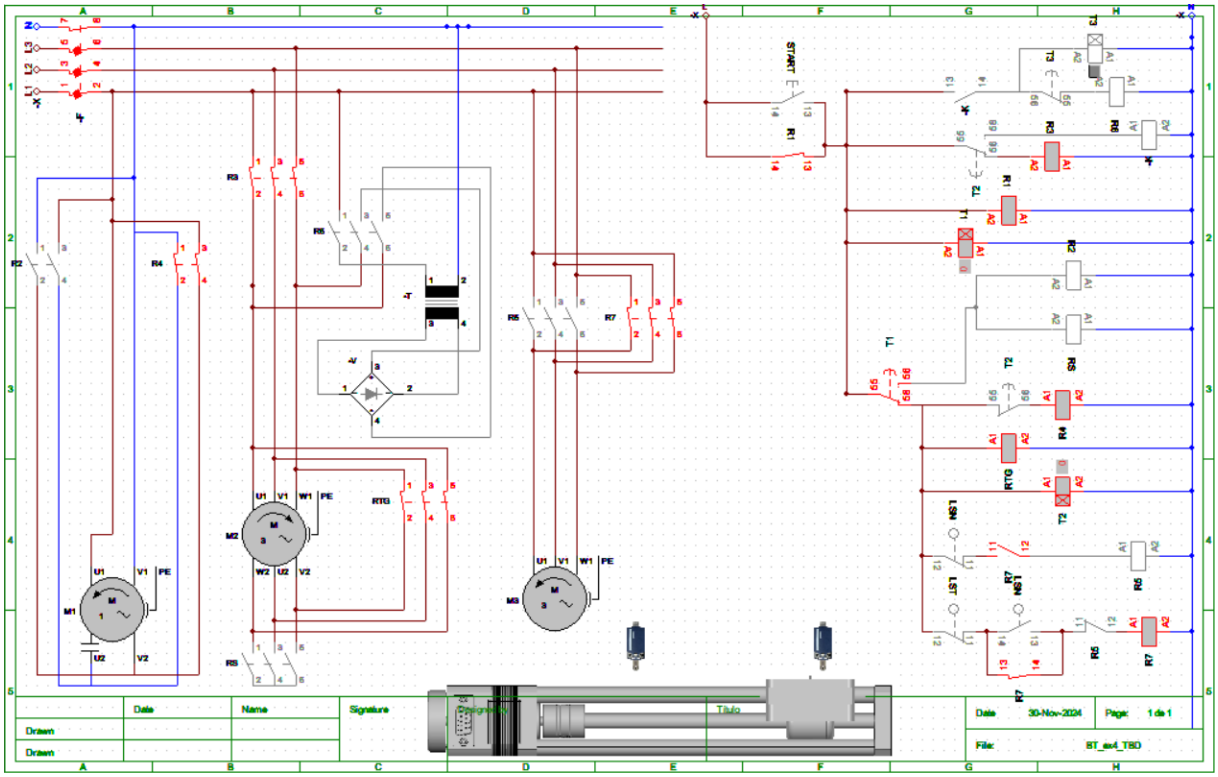


After 5s motor 1 change direction, motor 2 change from star to delta, motor 3 start running:

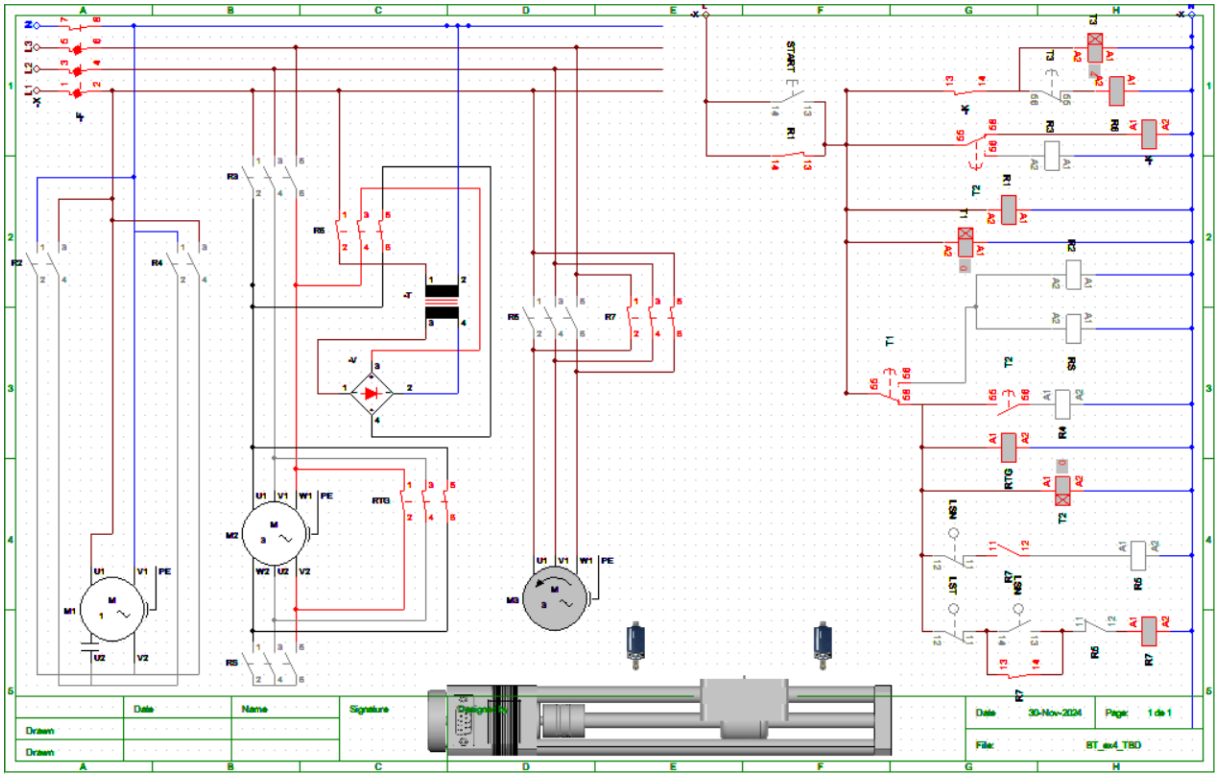


1.1.2 Motor 3 (3phase) runs from left to right then meets a limit switch then return to right then loop again, while in 5s later motor1 stops and motor2 stop (kinematic).

Motor 3 (3phase) runs from left to right then meets a limit switch then return to right then loop again:

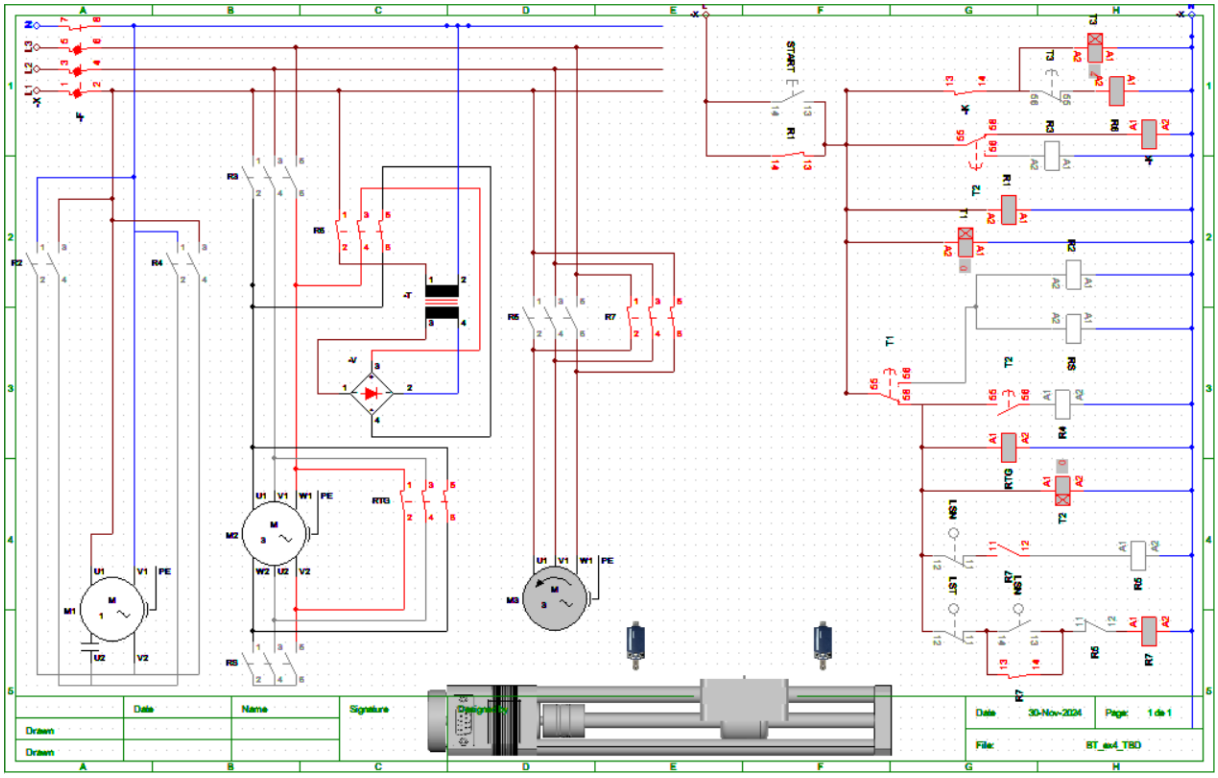


In 5s later motor 1 stops and motor 2 stop (kinematic):

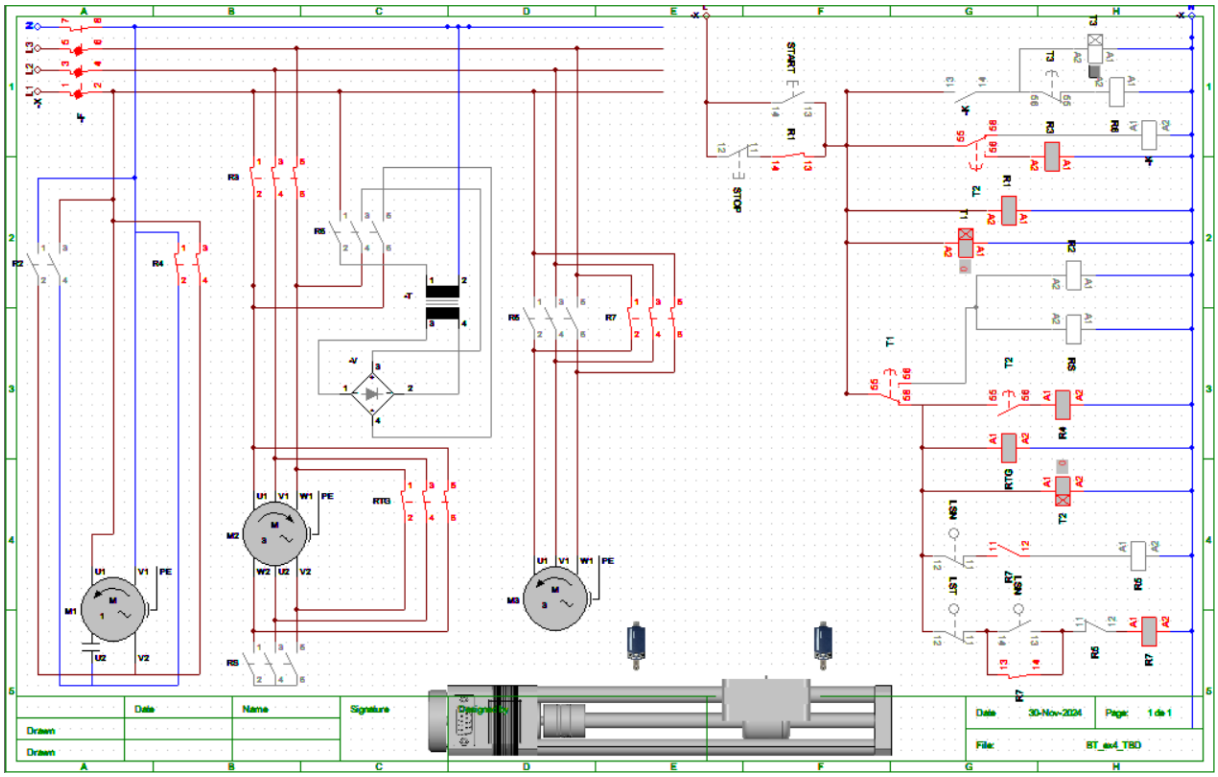


1.2 Circuit have emergency stop button.

1.2.1 Before the emergency stop button is pressed



1.2.2 After the emergency stop button is pressed



⇒ After the emergency stop button is pressed, all motors stop immediately and will not reactivate until the start button is pressed.