

Controlling of cream mixer.....

1. Requirements

The cream mixer in dairy is controlled by FAB. Automatic or direct operation is selected by a mode selector switch. Failures are indicated by a fault indicator and a buzzer.

2. FAB Solution

If the mode selector switch is set at “automatic step” (I1), the mixer (Q1) starts up at once. Automatic operation means that the mixer is switched on for 15 seconds and then off for 10 seconds, the mixer operates at the above intervals until the mode selector switch is set at 0. When the direct operation button I2 is selected, the mixer runs without intervals.

If the motor circuit-breaker is tripped (at I3) the fault indicator and buzzer are activated. The interval of buzzer signal is set at 3 seconds by clock-pulse generator. Alarm signal is interrupted by the reset button I4. When the failure has been amended the fault indicator and buzzer are reset.

The “alarm test” button I5 is used for testing the fault indicator and buzzer.

3. Components used

Input	Output
I1 automatic mode button (NO contact)	Q1 Mixer
I2 Direct mode button (NO contact)	Q2 Fault indicator
I3 Alarm button (NO contact)	Q3 Buzzer
I4 Alarm test button (NO contact)	

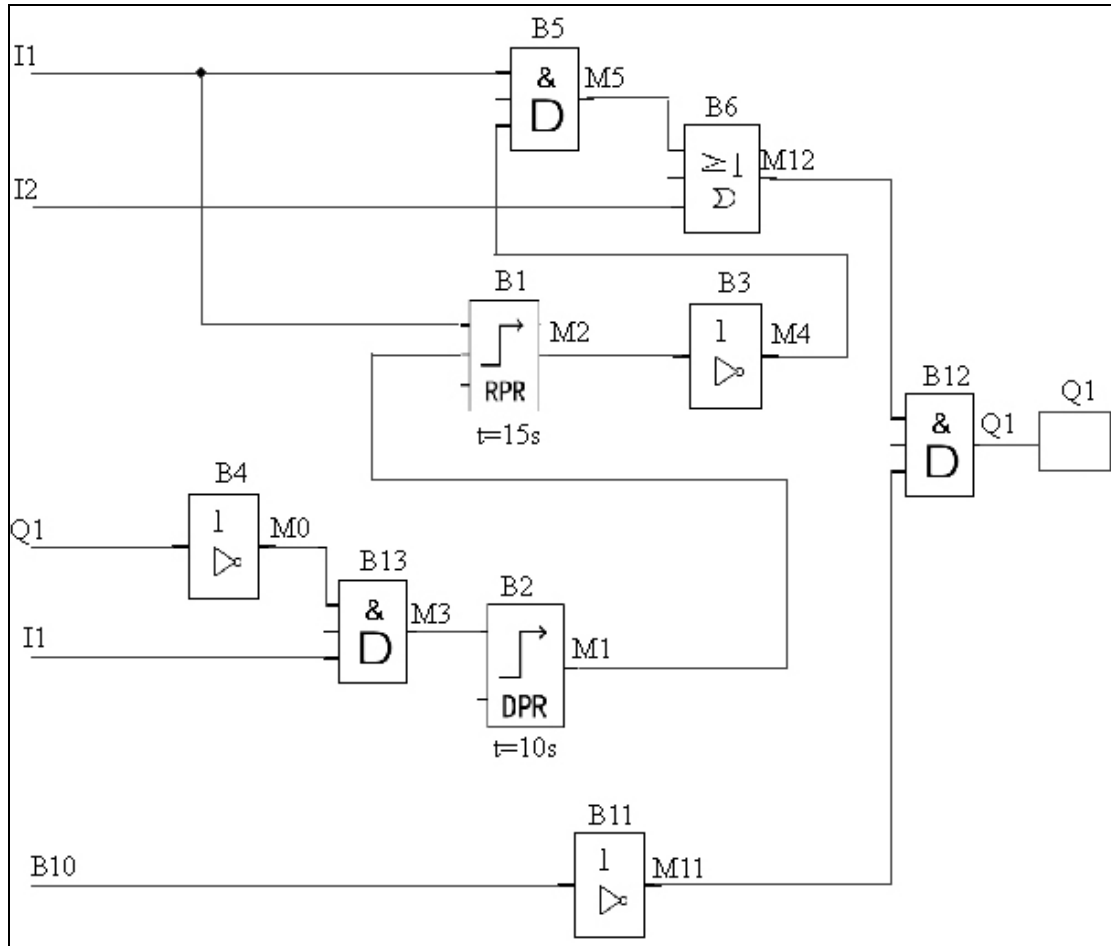
4. Advantages and Specialties

The mixer intervals can be changed as desired.

Fewer components are necessary than the traditional solutions.

5. Software Circuit Diagram

Part I



Part II.....

