

Controlling of cream mixer.....

1. Requirements

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

2. SR Solution

If the mode selector switch is set at “automatic step” (IA0), the mixer (QA0) 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 IA1 is selected, the mixer runs without intervals.

If the motor circuit-breaker is tripped (at IA2) 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 IA3. When the failure has been amended the fault indicator and buzzer are reset.

The “alarm test” button IA4 is used for testing the fault indicator and buzzer.

3. Components used

Input	Output
IA0 automatic mode button (NO contact)	QA0 Mixer
IA1 Direct mode button (NO contact)	QA1 Fault indicator
IA2 Alarm button (NO contact)	QA2 Buzzer
IA3 Alarm test button (NO contact)	

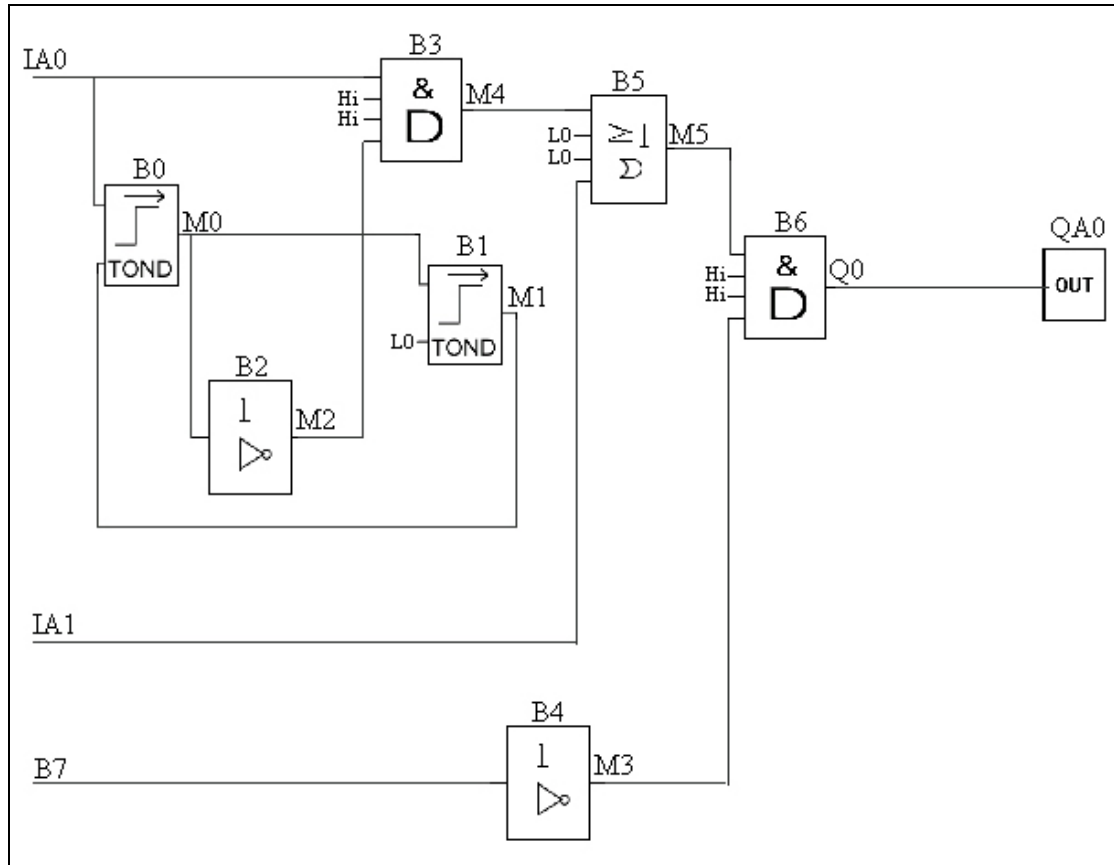
4. Advantages and Specialties

The mixer intervals can be changed as desired.

Fewer components are necessary than the traditional solutions.

5. Software Circuit Diagram

Part I



Part II.....

