

M. of O. sheet was prepared from Issue 1 of ST-512581

METHOD OF OPERATION

Motor Stop and Frame - Busy Circuit - Unit Type Subscriber Sender Frames - Panel Type Machine Switching System.

DEVELOPMENT

1. PURPOSE OF CIRCUIT

- 1.1 These circuits are used to provide audible and visual signals when a frame drive motor slows down below its normal speed or stops, and also to provide means for automatically imposing busy conditions on the frames affected by the particular drive motor as long as the motor is running below its normal speed, or is stopped.

2. WORKING LIMITS

- 2.1 These circuits function with local circuits and have no working limits.

OPERATION

3. PRINCIPAL FUNCTIONS

- 3.1 To provide audible alarm signals when frame motors slow down below normal speed or stop.
- 3.2 To provide visual signals when frame motors slow down below normal speed or stop.
- 3.3 To make the frames affected busy when motors slow down below normal.

4. CONNECTING CIRCUITS

- 4.1 Standard "A" Sender.

5. DESCRIPTION OF OPERATION

- 5.1 When a subscriber sender frame drive motor slows down sufficiently below its normal speed the (S) stop contact on the governor shaft operates in turn operating (MS) and (PB) relays. (MS) relay operated lights the (red) pilot lamps at the trouble desk and the floor alarm board in series with the (AC) relay, the latter operating the buzzer at the trouble desk and the ringer at floor alarm board. Stop contact (S) operates also the (PB) relay which connect ground to the test leads to make the senders busy.
- 5.2 Operating the (MS) key lights the (white) guard lamp at the floor alarm board and extinguishes the (red) pilot lamp, releases the (AC) relays and silences the audible signals.

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- 5.3 When the motor again runs at or above its normal speed stop contact (S) is opened and run contact (R) is closed. (S) contact opened releases the (FB) relay and removes ground from the test leads. At the same time (R) contact reoperates the (MS) relay thus lighting the (red) pilot lamp, etc. as described under stopping of motor.
- 5.4 The (MS) key released releases the (MS) relay and restores the entire circuit to normal.

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