

METHOD OF OPERATION
SIGNAL CIRCUIT

Motor Stop Alarm - And Frame Busy On Selectors - For Use With Line Finders -
Full Mechanical Power Driven System.

GENERAL DESCRIPTION

1. This circuit is arranged to provide an audible alarm and a visual signal both at the floor alarm board and main alarm board whenever a selector frame drive motor is stopped. Provision is made for the removal of the alarm and the operation of a warning signal when a drive motor is stopped intentionally.

2. Figures 1 and 7 show the wiring of the alarm governor on the motor shaft, used to close the circuit of the auxiliary alarm shown in Figures 2, 3, 4, 5, 6 and 8.

3. Figures 2, 3, 4, 5, 6 and 8 show the wiring of the auxiliary alarm circuit used to close an alarm circuit (not shown) when the stop contacts of the alarm governor close due to the motor stopping or slowing down below the critical speed.

DETAILED DESCRIPTION

OPERATION

4. When the stop contact of the alarm governor, Figures 1 or 7, makes, due to the motor stopping or slowing down beyond the critical speed, the MS relay (Figure 3) operates, lighting the red motor stop signal lamp and ringing a bell at the main alarm and floor alarm boards. At the same time, the FB relay operates, placing ground on the make busy leads to the line finder selector circuits, operating the "make busy" relays associated with each line finder on the same side of the frame.

5. Should the motor be stopped intentionally, the associated motor stop key (not shown), is operated, lighting the white motor stop guard lamp at the floor alarm board. Under this condition, when the motor starts to run, the red motor stop pilot lamp lights and the white guard lamp remains lighted as an indication that the key should be restored to normal.

6. When MS relay, (Figures 4 and 8) operates and functions in the same way for the sender selectors as the MS relay in Figure 3.

7. The FB relay (Figure 5) and the SB relay (Figure 6) function in the same way for the sender selectors as the FB relay, (Figure 2).

CIRCUIT REQUIREMENTS

OPERATE

NON-OPERATE

RELEASE

E447 (FB) Test .034 amp.
Figure 5. Readj. .027 amp.

Test .013 amp.
Readj. .014 amp.

E458 (MS) Test .016 amp.
Readj. .011 amp.
Figures 4 and 8

Test .0007 amp.
Readj. .0015 amp.

E543 (MS) Test .014 amp.
Readj. .007 amp.
Figure 3

Test .0005 amp.
Readj. .001 amp.

E597 (SB) Test .019 amp.
Readj. .018 amp.
Figure 6

Test .001 amp.
Readj. .002 amp.

E964 (FB) Test .038 amp.
Readj. .033 amp.
Figure 2

Test .0015 amp.
Readj. .003 amp.

ENG.-AHF-JO.
5/20/22.

CHK'D.-WJT.

APPROVED, C.L.SLUYTER, G.M.L.