

Westinghouse

Compensator Phase Angle Transformer S # 714112 for use with Type C Induction Regulators

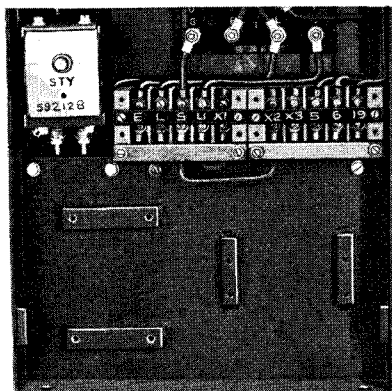


FIGURE 1.

Rear view of lower part of standard induction regulator panel. Left hand mounting straps are for phase angle transformer and right hand straps for terminal block, marking strip, and cleat.

INSTRUCTIONS

Installing:

To add phase angle transformer to panel #752784 proceed as follows:

Remove the two cap nuts at the top of the panels on outdoor regulators and panel will swing forward making the rear of panel accessible for wiring. Panels for indoor machines can be swung to the side.

- (1) Remove jumper XI to U as shown in Fig. 1.
- (2) Mount phase angle transformer (Fig. 2) in position as shown in Fig. 3, first spreading leads so they can be easily identified after transformer is in place. See Fig. 2.
- (3) Mount terminal block cleat and marking strip as shown in Fig. 3.

Connections:

- (1) Connect the three leads "a", "b" and "c" of phase angle transformer to the top of the terminal block.
- (2) Connect "d" and "e" of transformer to bottom of terminal block (note that "d" consists of two separate leads).
- (3) Connect "d" of top of terminal block to U of panel terminal block.
- (4) Connect "e" of top of terminal block to S of the panel terminal block. (This makes two con-

nections to terminal S, one to X2 and the other to "e".)

Connections Between Regulators:

Connections between regulators are symmetrical, i. e. if one regulator is numbered #1 and the other #2 connect as follows:

- (1) *Connect "a" of Reg. #1 to X1 of Reg. #2.
- (2) *Connect "a" of Reg. #2 to X1 of Reg. #1.
- (3) Connect "b" of Reg. #1 to "c" of the #2.
- (4) Connect "b" of Reg. #2 to "c" of Reg. #1.

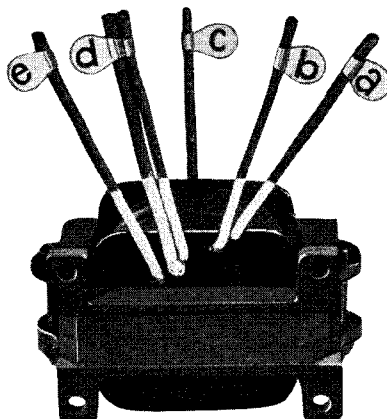


FIGURE 2.

Rear view of compensator phase angle transformer showing location and marking of leads. Note that lead "c" is on opposite side from other leads and that lead "d" consists of two separate leads that must be connected together.

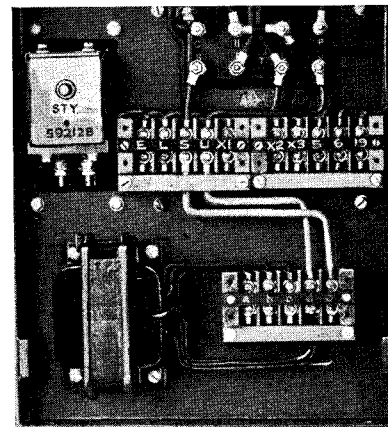


FIGURE 3.

Rear view of lower part of panel with transformer and terminal block mounted and connected. Connections between the two regulator panels are not shown.

*If X1 of each current transformer is grounded as shown in schematic diagram Fig. 4, then these two wires can be combined as one wire making only three wires between regulators.

Checking Connections:

CAUTION: Check connections carefully as per schematic diagram Fig. 4. In tracing connections on panels of outdoor type regulators, it will be found convenient to turn this instruction sheet upside down when viewing Figs. 1 and 3 for direct comparison.

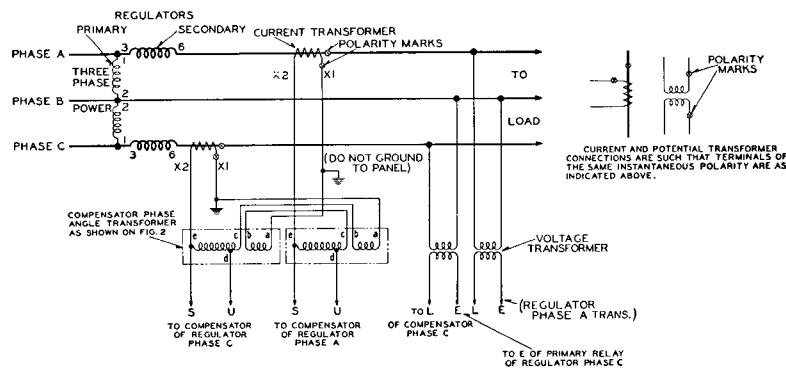


FIGURE 4

Schematic Diagram showing essential connections of phase angle transformers. All terminal numbers correspond to standard terminal marking. The terminal marking will be found either painted near the terminal stud or terminal itself will be stamped. Note carefully that the polarity of the instrument transformers must be as shown in above sketch. See instruction book #5137 for further information.

Westinghouse Electric & Manufacturing Co.

