

3SRK1001 REVERSING OPTION FOR 3 HP AND 5 HP STATOTROL* II DC MOTOR CONTROLLERS

DESCRIPTION

The 3SRK1001 reversing option consists of several small components mounted on a bracket with two pre-wired contactors. With this option properly installed, the Statotrol II controller provides controlled torque plug reversing for DC motors rated 3 HP and 5 HP.

INSTALLATION

For proper mounting location and orientation, refer to Figure 2 in instruction book GEK-36391. Hardware for securing the bracket to the controller chassis is provided with the option.

ELECTRICAL CONNECTIONS

Relay Coil Connections

The relay coil wiring is terminated in a connector. This connector must be mated with the male connector, marked "REV. CONN." located on the controller main component board.

Power Circuit Connections

The motor armature circuit must be connected as shown in Figure 1. Refer to Figure 2 for terminal locations on the contactors. After the option has been mounted, proceed with the following connection sequence.

1. Locate wire number 46 which runs from the SCR's to terminal 3TB-A1. Note: On 3 hp units, wire 46 runs from the SCR's to the insulated stand-off and then to 3TB-A1. Disconnect this wire from 3TB-A1 and connect it to contactor terminal 46 on the reversing option (see Figure 2).
2. Locate wire number 47 which runs from the SCR's to terminal 3TB-A2. Disconnect this wire from 3TB-A2 and connect it to contactor terminal 47 on the reversing option (see Figure 2).
3. Locate wire number 92 (AWG. 12) which is factory connected to the reversing option. Connect the free end of wire number 92 to terminal 3TB-A1.

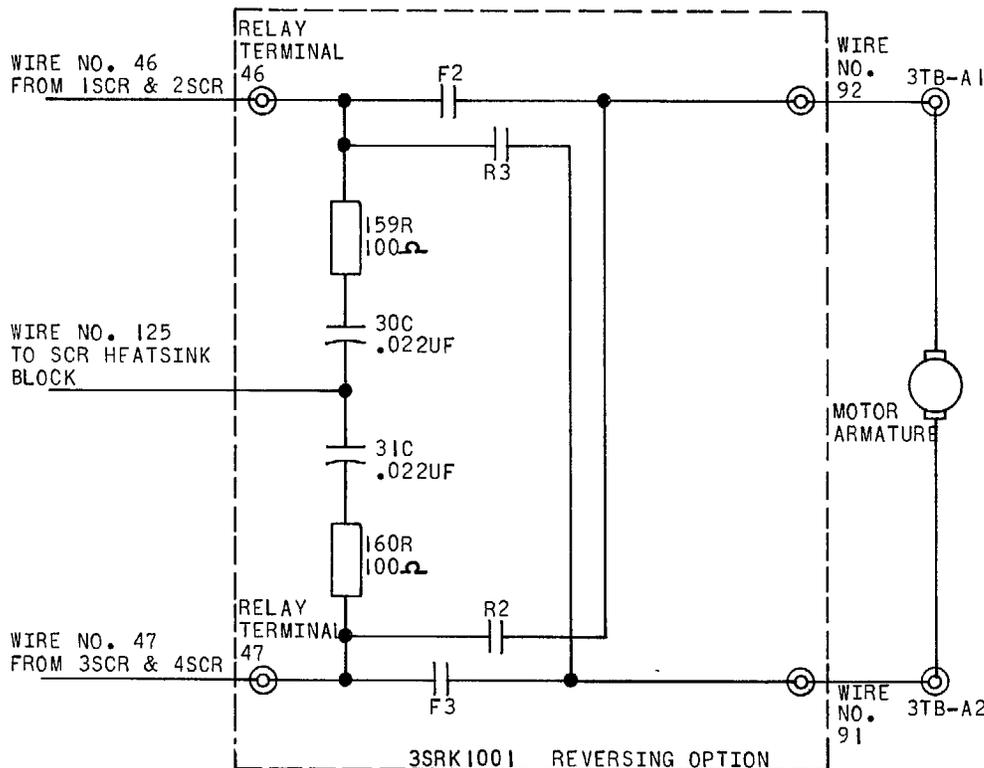


Figure 1. Motor Armature Circuit with 3SRK1001 Reversing Option Installed

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These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to General Electric Company.

4. Locate wire number 91 (AWG. 12) which is factory connected to the reversing option. Connect the free end of wire number 91 to terminal 3TB-A2.

5. Locate wire number 125 (AWG. 18) which is factory connected to the reversing option. Connect the free end of wire number 125 to terminal 125 on the SCR heat sink block as shown in Figure 2.

When the reversing option is properly connected and when motor leads and controller terminals are connected A1 to A1, A2 to A2, F1 to F1, and F2 to F2, the motor will rotate CCW as viewed from the opposite shaft end when the control station button marked "FWD" is pressed.

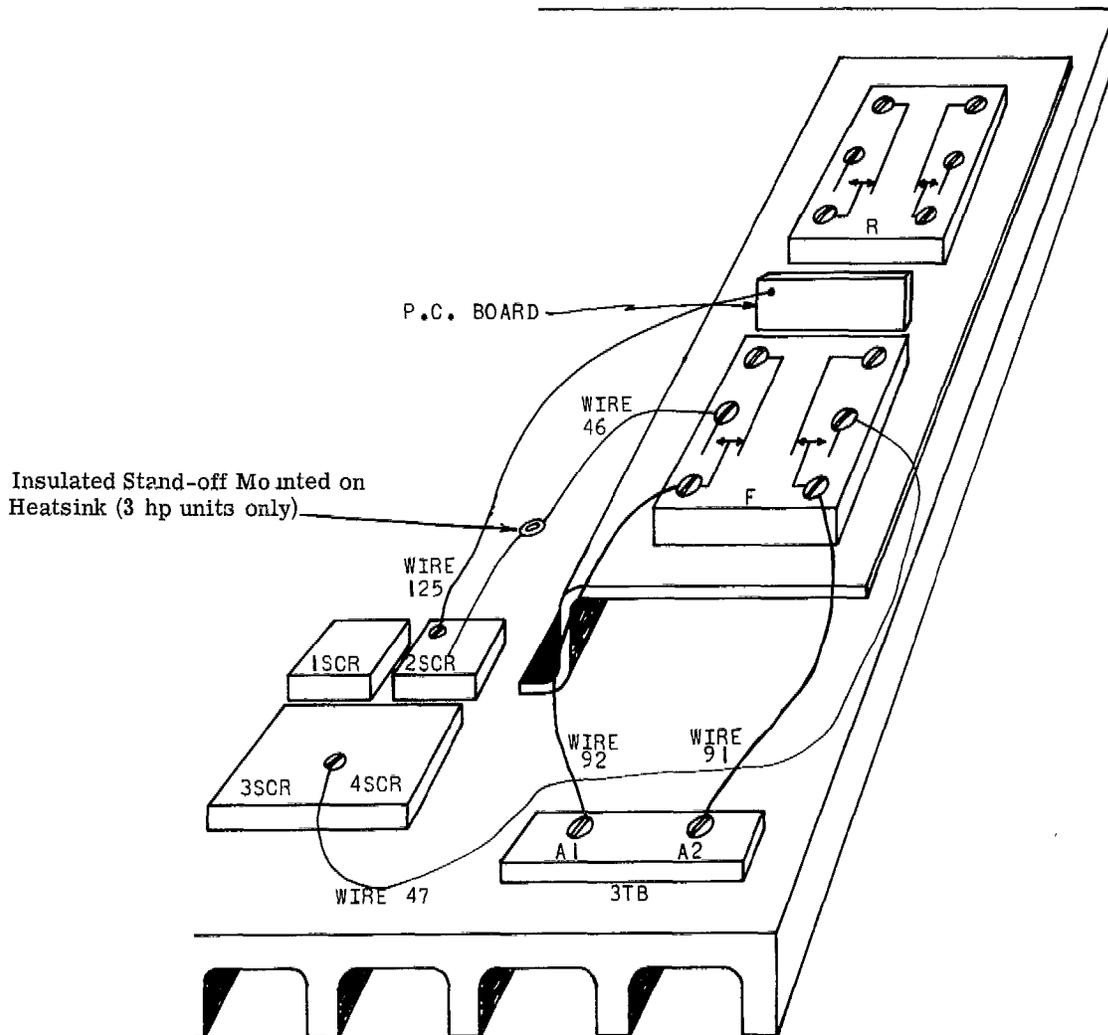


Figure 2. Customer Connection Diagram for 3SRK1001 Reversing Option