

3SRK1003, 1004 REVERSING OPTION WITH DBR FOR 3 HP AND 5 HP STATOTROL*II DC MOTOR CONTROLLERS

DESCRIPTION

The 3SRK1003, 1004 reversing option consists of several small components mounted on a bracket with two prewired contactors and a dynamic braking resistor. With this option properly installed, the Statotrol II controller provides selective rotation for DC motors rated 3 HP and 5 HP. They are not suitable for plug reversing.

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 (AWG 12) 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 (AWG 12) 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.

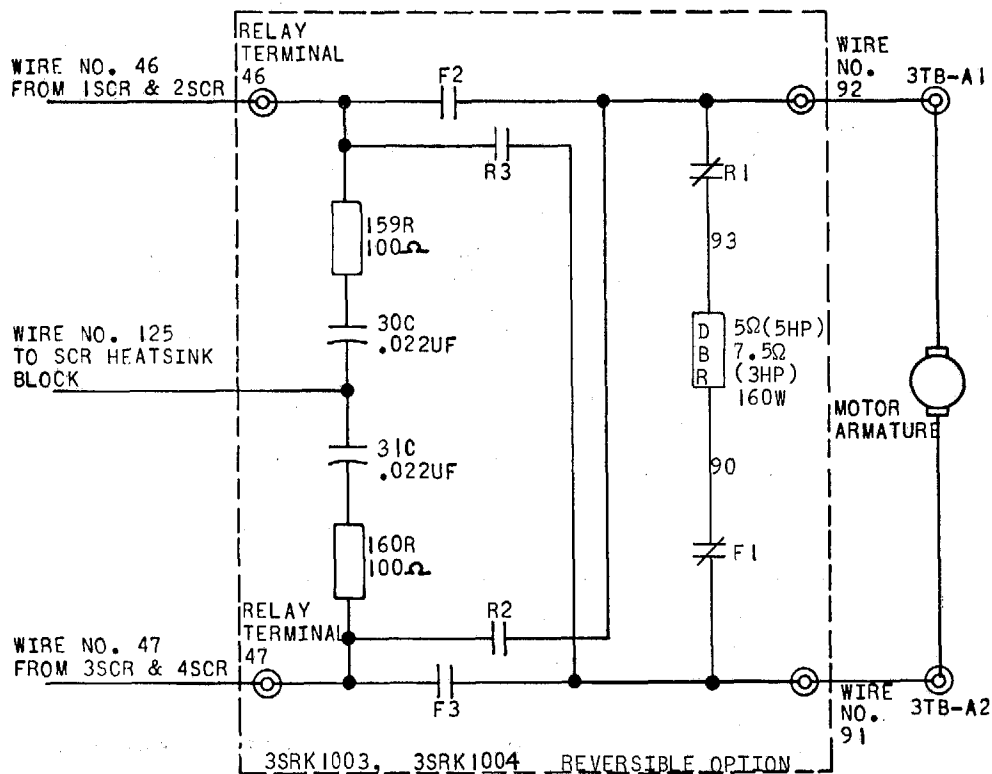


Figure 1. Motor Armature Circuit with 3SRK1003 Reversing Option Installed

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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.

PRINCIPAL RENEWAL PARTS

DESCRIPTION OF PART	CATALOG NUMBER	Qty. Per Panel	
		3SRK1003	3SRK1004
Dynamic Braking Resistor	44A333459-C75	1	
Dynamic Braking Resistor	44A333459-C50		1
F and R Relay	44A336798-001	2	2
Capacitor (30, 31C)	44B218587-G22	2	2
Resistor (159, 160R)	933B590E10	2	2

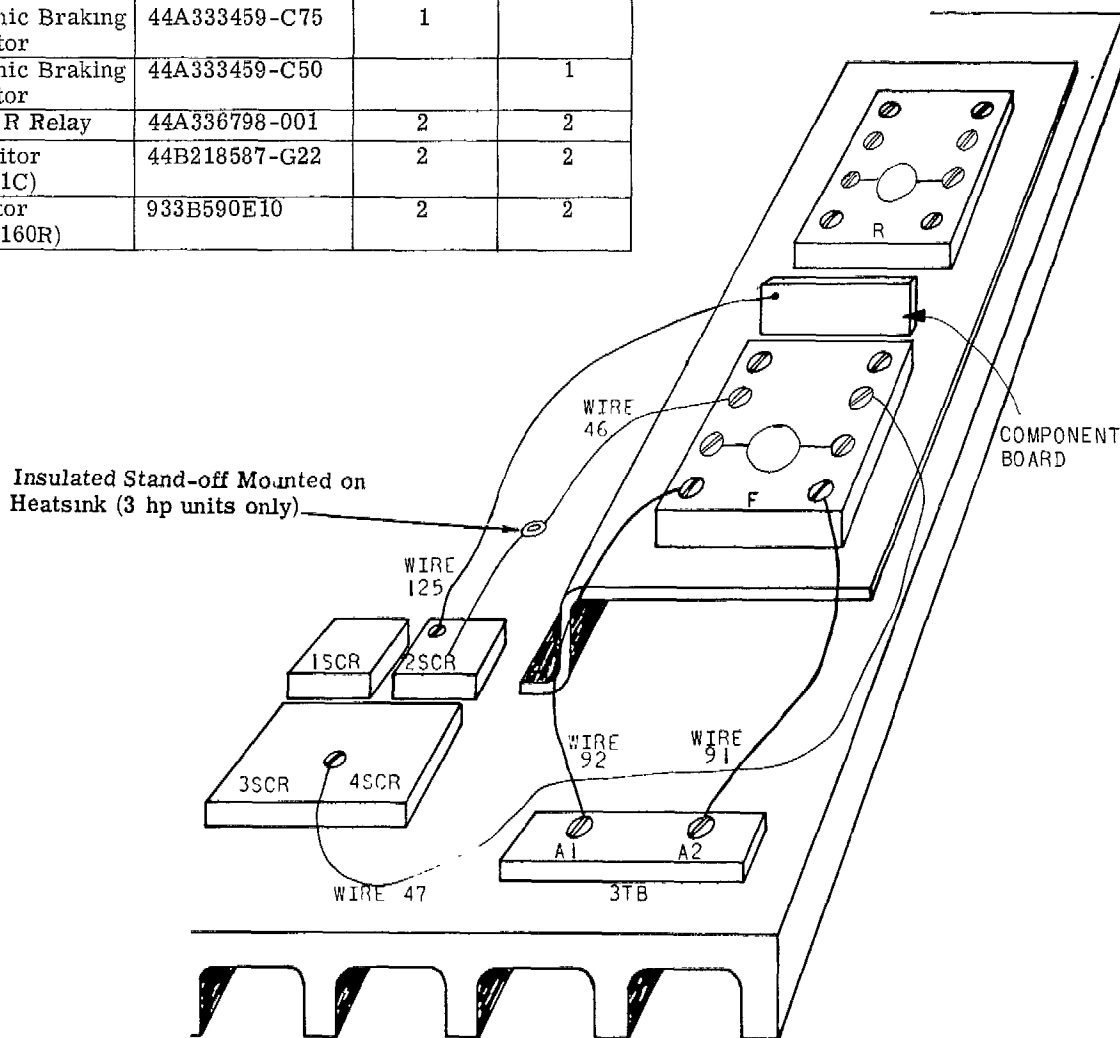


Figure 2. Customer Connection Diagram for 3SRK1003, 1004 Reversing Option

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