

Replacing SCF Series with SCM Series

This instruction sheet is intended as an aid when replacing an SCF Series drive with an SCM Series drive. While they are similar in many ways, there are some wiring and programming differences that are explained herein.

One of the main differences is that the SCF has “active-low” inputs, while the SCM’s inputs are “active-high”. This means that the SCF’s inputs are activated when they are brought down to 0 VDC, while the SCM’s inputs are activated when they are brought up to 12 VDC. Therefore, the SCF’s inputs are referenced to terminal 2 (0 VDC common) while the SCM’s inputs are referenced to terminal 11 (12 VDC).

NOTE: The speed control of the SCF and SCM is identical, so examples of speed control are not shown.

SIMPLE 2-WIRE START/STOP CONTROL (FORWARD ONLY)

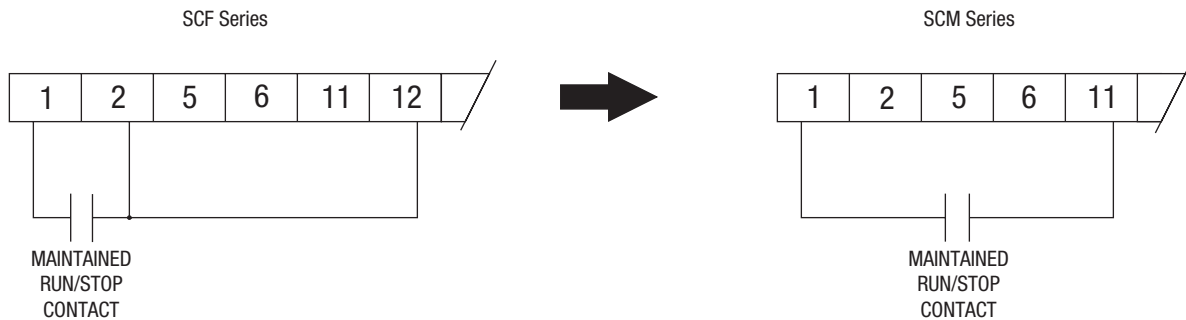


Figure 1: 2-Wire Start/Stop Control (FWD)

2-WIRE START/STOP CONTROL WITH FORWARD & REVERSE

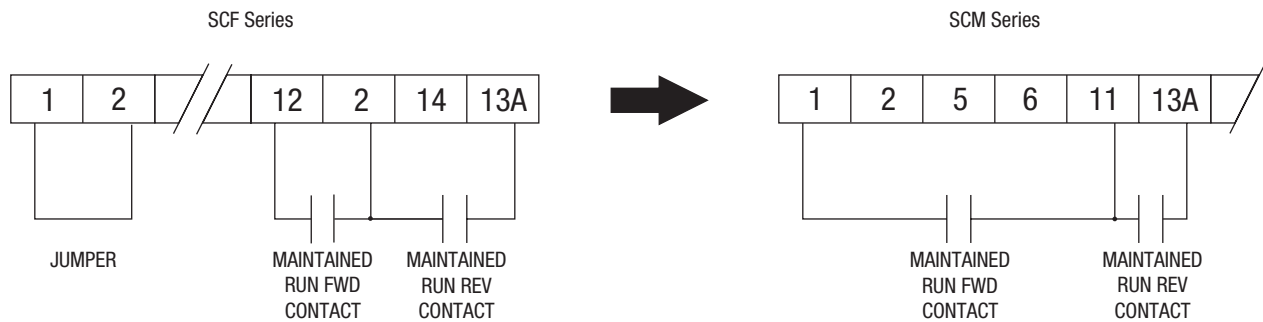
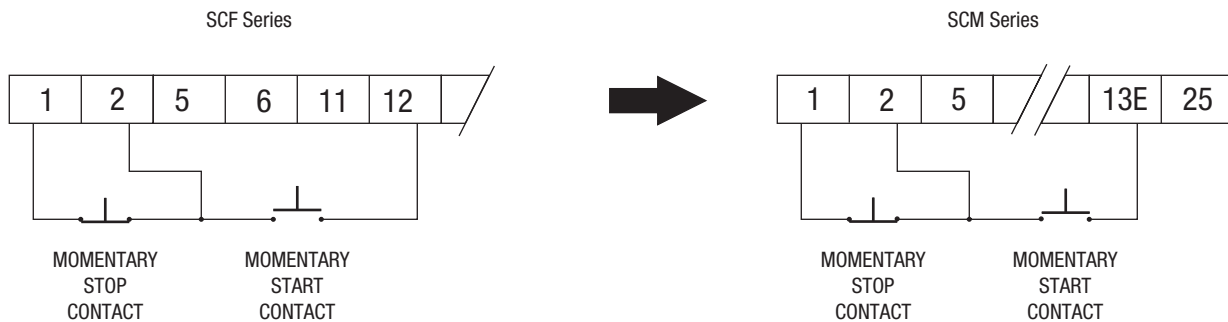


Figure 2: 2-Wire Start/Stop Control (FWD & REV)

SIMPLE 3-WIRE START/STOP CONTROL (FORWARD ONLY)



NOTE: Terminal 13E (parameter 12) must be programmed to START FORWARD (06)

Figure 3: 3-Wire Start/Stop Control (FWD)

3-WIRE START/STOP CONTROL WITH FORWARD & REVERSE

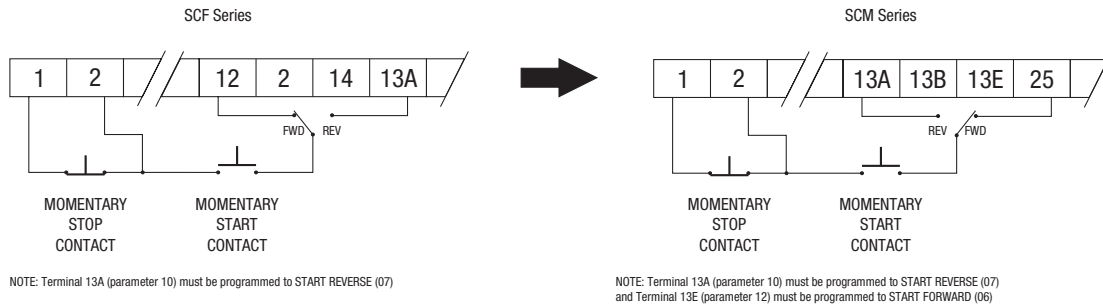


Figure 4: 3-Wire Start/Stop Control (FWD & REV)