

10 Series Drives Switching Frequency Reference Signals

The following are drawings that show two typical connection diagrams for switching the input reference signal from one source to a second or separate source. This would be typically referred to as a HOA (Hand Off Auto) switch or Local/Remote switching. The tech note will provide the required programming and wiring to allow switching of the input reference signal.

Case 1:

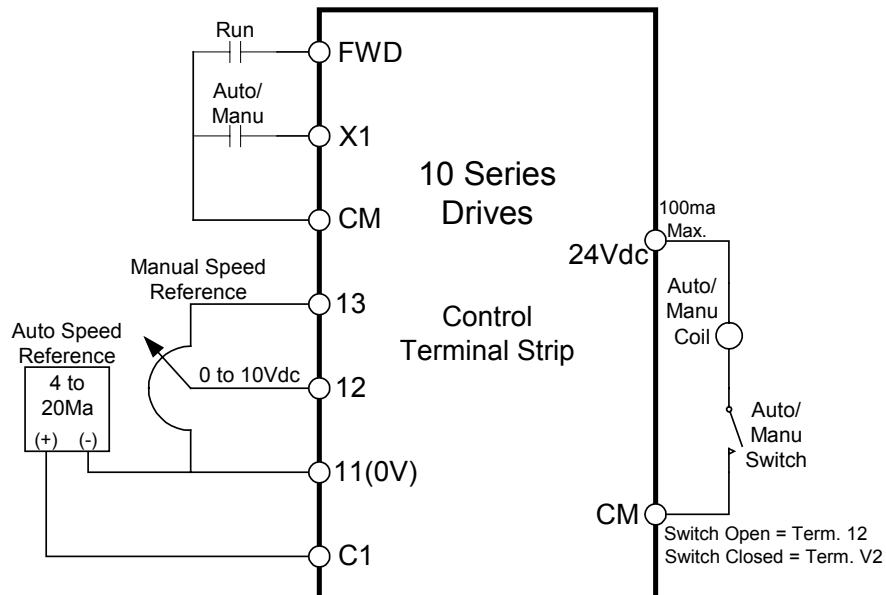
Description: Switching from an external source such as a controller or PLC supplies to a local source such as a potentiometer .

Function: When the run command is made the drive will follow the reference signal on term. C1. Then when the manu. and run command are given the drive will then follow the reference signal from term. 12.

Programming:

F01 = 2	Reference Frequency for Auto Mode (term. C1)
F02 = 1	Start/Stop from terminal strip
F11 = FLA of motor	Sets the Overload Protection for the motor
E01 = 9 for PC10	Sets Terminal X1 to switch the reference signal from terminal C1 to terminal 12.
E01 = 11 for GP10/VG10	
C30 = 1	Reference Frequency for Manual Mode (term. 12)

Control Wiring to switch from Terminal C1 (4to20ma)
to Terminal 12 (0to10Vdc)



Case 2:

Description: Switching from an external source such as a controller or PLC supplies to a local source such as a potentiometer.

Function: When the run command is made the drive will follow the reference signal on term. 12. Then when the manu. switch and run command are closed the drive will then follow the reference signal from term. V2.

Programming:

F01 = 1	Reference Frequency (term. 12 and V2)
F02 = 1	Start/Stop from terminal strip
F11 = FLA of motor	Sets the Overload Protection for the motor

Control Wiring to switch from Terminal 12 (0to10Vdc)
to Terminal V2 (0to10Vdc)

