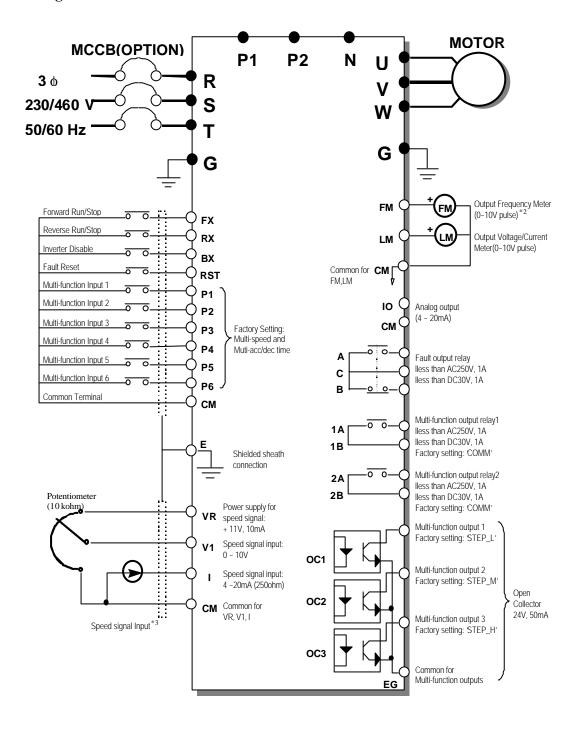
8.1 Multi-Step Speed (Pre-set Speed) Operation



■ Description of Multi-Step Speed

Up to 7 different frequency references can be used.

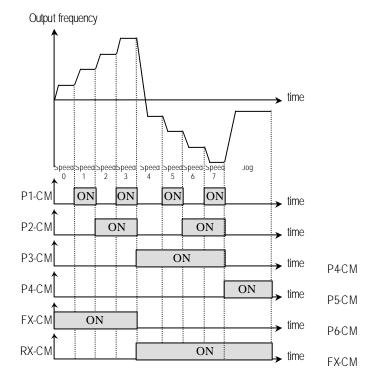
After wiring the inverter as in the figure left:

- 1. Select the Frequency Reference Source to 'Key' or 'Terminal' in FUN 01 [Freq. set]. This frequency reference is used for 'step 0'.
- 2. Select the Run/Stop Control Source to 'Terminal-1' in FUN 02 [Run / Stop set].
- 3. Configure terminals in I/O 01 06 [P1-P6 Input] as table below.
- 4. If FUN 01 is set to 'Key', set the reference frequency of 'step 0' in DRV 00. If FUN 01 is set to 'Terminal', set the reference with potentiometer.
- 5. Set the reference frequency of each step in I/O 13 19 [Step freq 1 7].
- 6. Set the JOG frequency in I/O 12 [Jog freq.].
- 7. To run the motor, introduce multi-function input terminals along with the FX, RX or FWD, REV key.

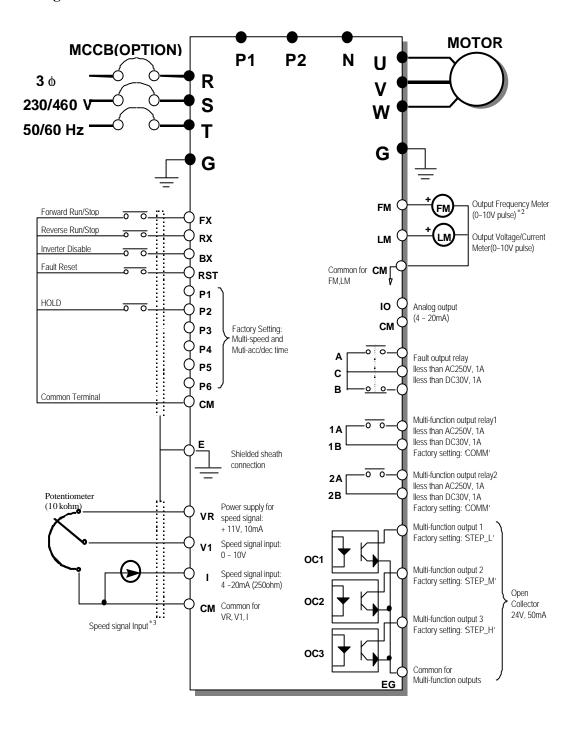
Multi-step Speed selection table

		_	_			_			
Input	Configured	Speed							
Terminal		0	1	2	3	4	5	6	7
P1	SPD_L	0	1	0	1	0	1	0	1
P2	SPD_M	0	0	1	1	0	0	1	1
P3	SPD_H	0	0	0	0	1	1	1	1

0: inactive (off), 1: active (on)



8.2 3-Wire Operation



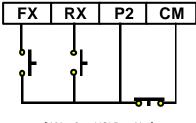
■ Description of 3-Wire Operation

The 'HOLD' function is used to hold the momentary run command using a push button switch.

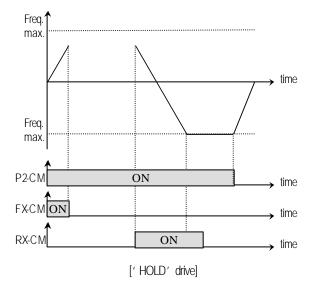
After wiring the inverter as in the figure left:

- 1. Select the Frequency Reference Source to 'Key' or 'Terminal' in FUN 01 [Freq. set].
- 2. Select the Run/Stop Control Source to 'Terminal-1' in FUN 02 [Run / Stop set].
- 3. Configure P2 terminal in I/O 02 [P2 Input] as 'HOLD'.

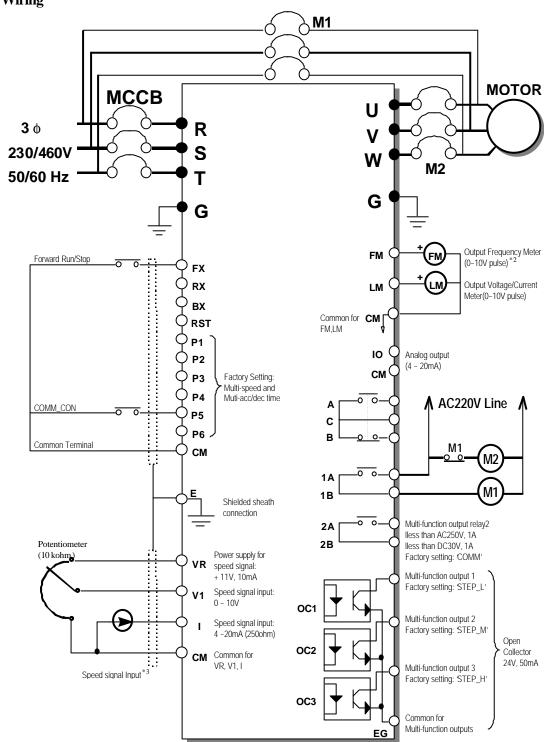
Once the FX or RX terminal is closed to CM momentarily, the inverter maintains its output. See below figure.



[Wiring for 'HOLD' drive]



8.3 Exchange Inverter to Commercial Line Operation

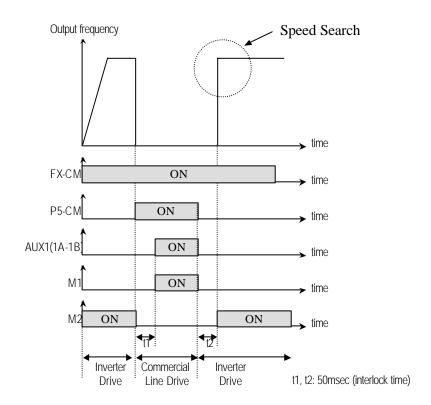


■ Description of Exchange Inverter to Commercial Line Operation

The input of the motor can be exchanged between the Inverter and Commercial Line using the 'COMM_CON' and 'COMM' functions.

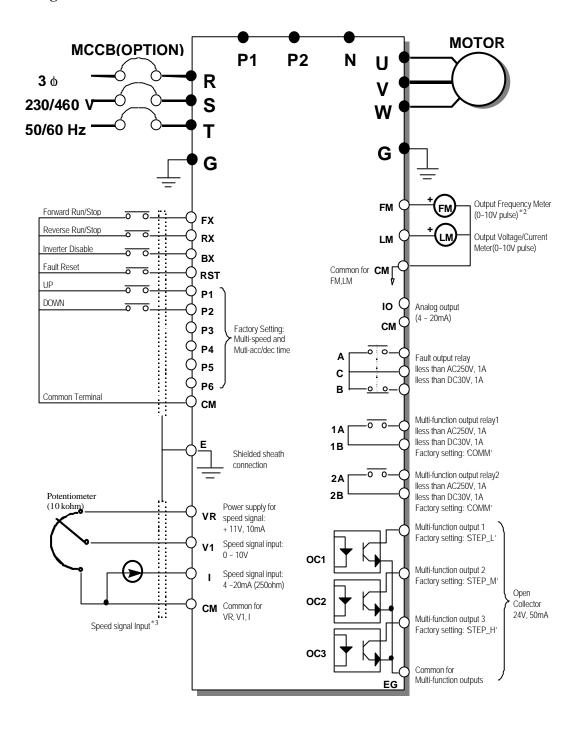
After wiring the inverter a in the figure left.

- 1. Select the Frequency Reference Source to 'Key' or 'Terminal' in FUN 01 [Freq. set].
- 2. Select the Run/Stop Control Source to 'Terminal-1' in FUN 02 [Run / Stop set].
- 3. Configure P5 terminal in I/O 05 [P2 Input] as 'COMM_CON'.
- 4. Configure AUX1 Relay Output as 'COMM' in I/O 10 [AUX1 output].
- 5. To exchange the motor input from inverter to commercial line, close the P5 terminal to CM. **Note:** Motor drive direction must be set up correctly.



[Commercial Line Exchange]

8.4 Up and Down Operation



■ Description of Up and Down Operation

The output frequency can be increased and decreased using Up and Down functions.

After wiring the inverter as in the figure lesft:

- 1. Select the Frequency Reference Source to 'Key' or 'Terminal' in FUN 01 [Freq. set].
- 2. Select the Run/Stop Control Source to 'Terminal-1' in FUN 02 [Run / Stop set].
- 3. Configure P1 terminal in I/O 01 [P1 Input] as 'UP'.
- 4. Configure P2 terminal in I/O 02 [P2 Input] as 'DOWN'.

See below sequence diagram.

