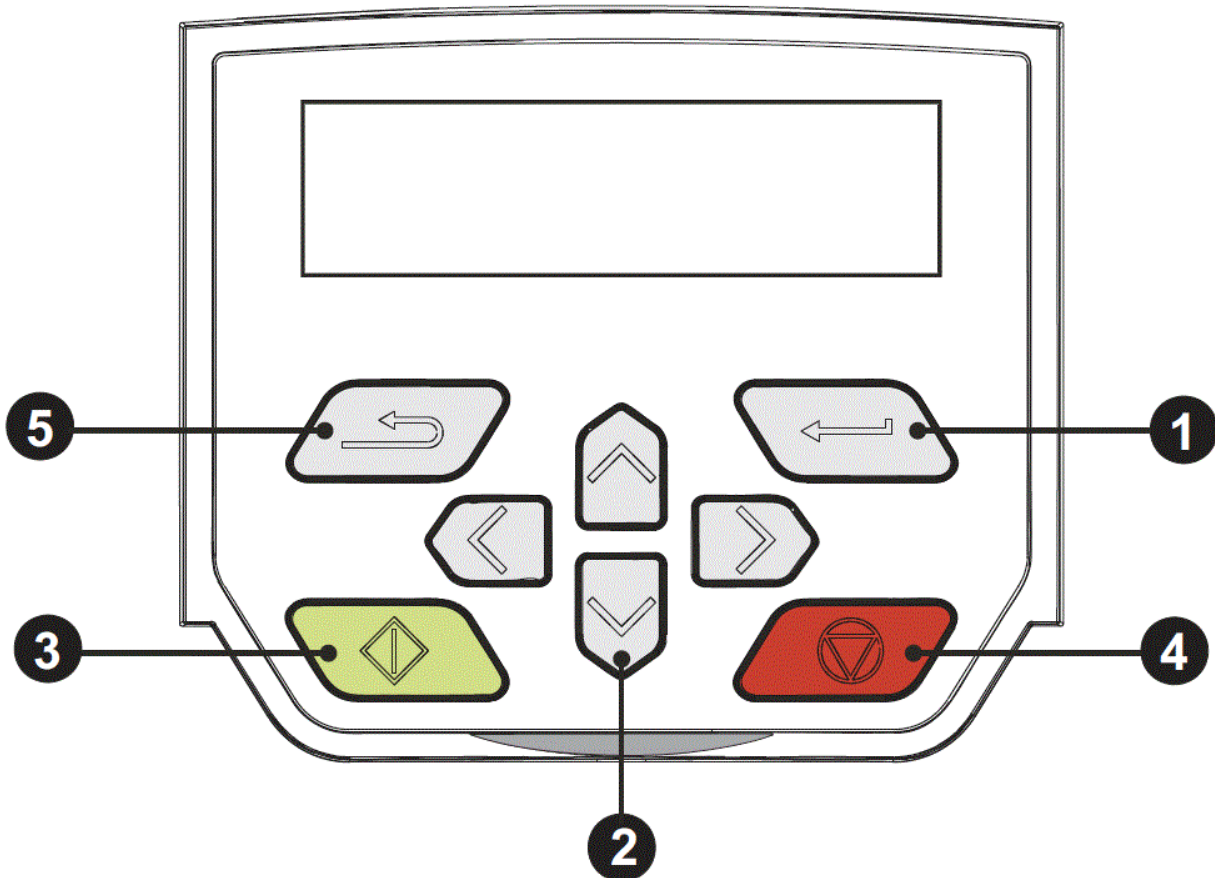# EMERSON M400 DRIVE SETUP GUIDE
FOR EA-269-119-HP ELECTRICAL PACKAGE

- M400 Keypad Descriptions

1. The **Enter** button is used to enter parameter view or edit mode, or to accept a parameter edit.
2. The **Navigation** buttons can be used to select individual parameters or to edit parameter values. In keypad mode, the **Up** and **Down** keys are also used to increase or decrease the motor speed.
3. The **Start** button (green) is used to start the drive in keypad mode.
4. The **Stop / Reset** button (red) is used to stop and reset the drive in keypad mode. It can also be used to reset the drive in terminal mode.
5. The **Escape** button is used to exit from the parameter edit / view mode or disregard a parameter edit.

- M400 INDEX/REVERSE BYPASS (RUN VFD VIA KEYPAD ONLY)

1. From main run screen access parameter view by pressing the
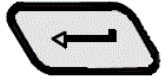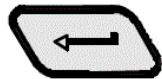
   Enter button

2. After parameter view mode is entered, scroll through to view the parameters with

   the **Up** and **Down** keys

3. Scroll to parameter **00.001** where the drive configuration parameter is located for access

   a. When parameter **00.001** is present on the screen press the
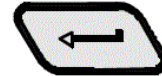
      Enter button to access edit mode for the parameter

   b. When in edit mode for the parameter, the parameter value will start to
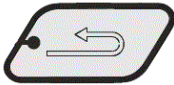
      blink and the value can be changed by pressing the **Up** and **Down**

      keys. Change to **KEYPAD** and press the **Enter** button to save.

4. After parameter has been saved press the **Escape** button to return to main run screen

- M400 INDEX TIMER SETUP (SECONDS WITH MILLISECONDS)

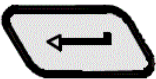1. From main startup screen access parameter view by pressing the

   Enter button

2. After parameter view mode is entered, scroll through to view the parameters with

   the **Up** and **Down** keys

3. Scroll to parameter **00.002** where the amount of time will be set that the conveyor

   will need to index when a momentary index signal is applied to the driver

   a. When parameter **00.002** is present on the screen press the

      Enter button to access edit mode for the parameter

   b. When in edit mode for the parameter, the parameter value will start to

      blink and the value can be changed by pressing the

      Up and **Down** keys. When the desired value is displayed

      press the **Enter** button to save.

      • Note that the value will be set in milliseconds. Example: A value of
        10000 will equal 10.000 seconds while a value of 5000 will equal
        5.000 seconds

4. After parameter has been saved press the **Escape** button to return

   to main run screen

**NOTE: Reverse signal will always override Index signal if both signals are present
at the same time**

- M400 REVERSE TIMER SETUP (SECONDS WITH MILLISECONDS)

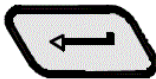1. From main startup screen access parameter view by pressing the

   Enter button

2. After parameter view mode is entered, scroll through to view the parameters with

   the ***Up*** and ***Down*** keys

3. Scroll to parameter **00.003** where the amount of time will be set that the conveyor

   will need to reverse when a momentary reverse signal is applied to the driver

   a. When parameter **00.003** is present on the screen press the

      Enter button   to access edit mode for the parameter

   b. When in edit mode for the parameter, the parameter value will start to

      blink and the value can be changed by pressing the

      Up and ***Down*** keys. When the desired value is displayed

      press the ***Enter*** button   to save.

      - Note that the value will be set in milliseconds. Example: A value of

        10000 will equal 10.000 seconds while a value of 5000 will equal

        5.000 seconds

4. After parameter has been saved press the ***Escape*** button   to return

   to main run screen

NOTE: Reverse signal will always override Index signal if both signals are present

at the same time

- M400 ACCEL AND DECEL RATE SETUP (SECONDS WITH TENTHS)

1. From main startup screen access parameter view by pressing the

   Enter button

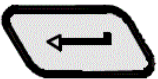2. After parameter view mode is entered, scroll through to view the parameters with

   the **Up** and **Down** keys

3. Scroll to parameter **00.006** where the amount of time will be set that the conveyor will take to accelerate to the full speed set point on the drive
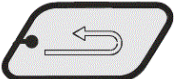
   a. When parameter **00.006** is present on the screen press the

   Enter button to access edit mode for the parameter

   b. When in edit mode for the parameter, the parameter value will start to blink and the value can be changed by pressing the

   Up and **Down** keys. When the desired value is displayed

   press the **Enter** button to save.

4. After parameter has been saved press the **Escape** button to return to main run screen

NOTE: Decel Rate can be setup with the same steps as above utilizing parameter 00.007

- M400 INDEX/REVERSE INTERFACE CONNECTIONS

CUSTOMER INTERFACE
CORD CONNECTIONS

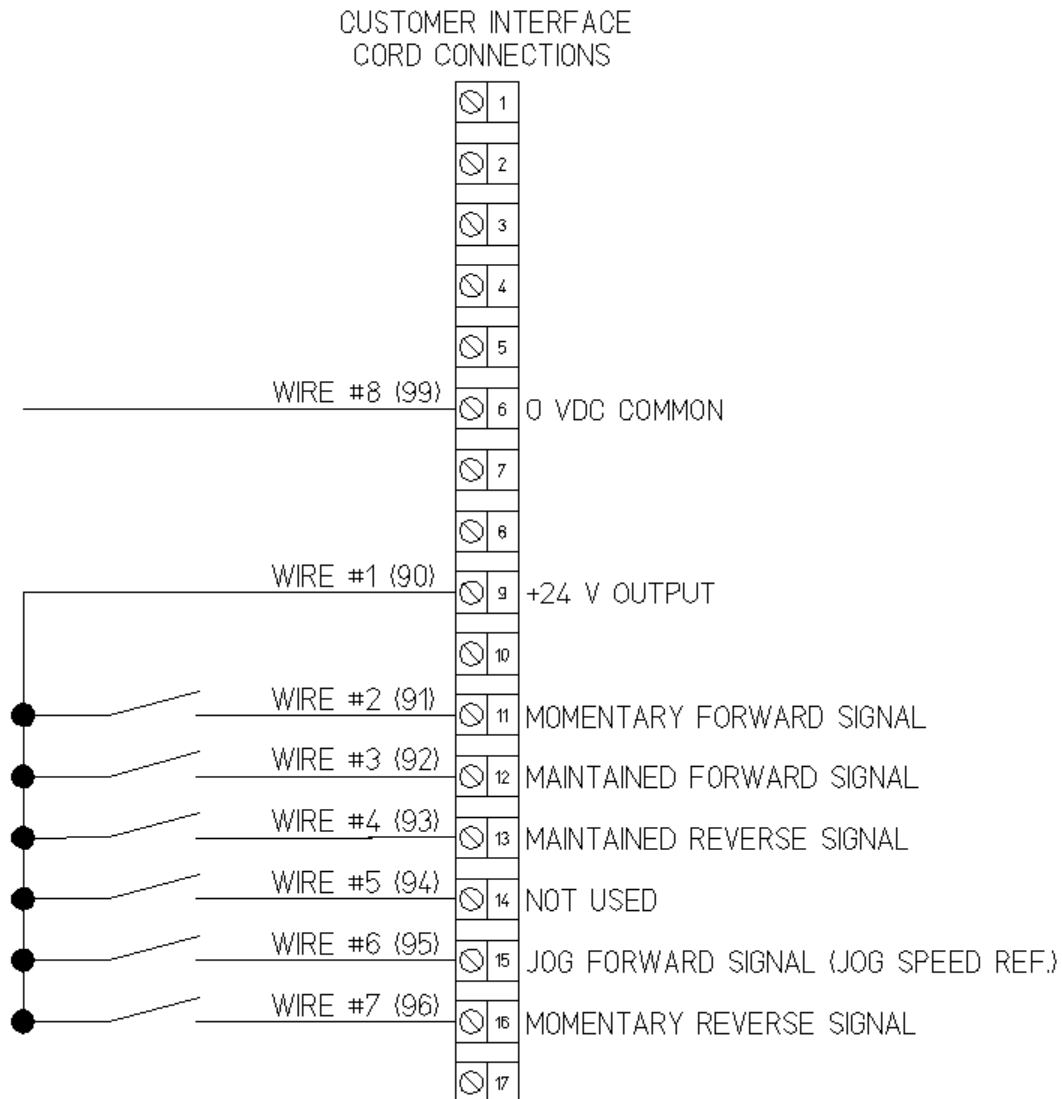| Terminal	Signal
1	
2	
3	
4	
5	
6	0 VDC COMMON — WIRE #8 (99)
7	
8	
9	+24 V OUTPUT — WIRE #1 (90)
10	
11	MOMENTARY FORWARD SIGNAL — WIRE #2 (91)
12	MAINTAINED FORWARD SIGNAL — WIRE #3 (92)
13	MAINTAINED REVERSE SIGNAL — WIRE #4 (93)
14	NOT USED — WIRE #5 (94)
15	JOG FORWARD SIGNAL (JOG SPEED REF.) — WIRE #6 (95)
16	MOMENTARY REVERSE SIGNAL — WIRE #7 (96)
17	

Illustration above shows connections for (NORMALLY OPEN DRY CONTACTS) from external equipment.

NOTE: If external equipment is supplying 24VDC signals for index/reverse signals wire #1 will not be used. Wire according to below:

    a. **Wire #8 (control wire #99) will go to external equipment 0VDC (NEUTRAL)**

    b. **Apply 24VDC (HOT) to wire #2 through wire #7 above accordingly for index/reverse signals listed**