(1) CONFIGURATION DIP SWITCHES

- **DIP Switch Bank 1**
  - D1: SUBDRIVE/MONODRIVE SWITCH
  - D2: HOBBES-STYLE SWITCH

(2) MOTOR HP DIP SWITCHES

- **DIP Switch Bank 2**
  - D1: START/STOP
  - D2: FWD/REV
  - D3: COOL/SUMP

(3) PUMP HP DIP SWITCHES

- **DIP Switch Bank 3**
  - D1: DON/NO-SUMP
  - D2: STAY/STEADY

(4) COMMON FAULT CODES

(5) DC BUS ACCESS

(6) NEW DIP SWITCHES

- DIP switches have been updated and are now larger and easier to use.

(7) UNDERLOAD SENSITIVITY POTENTIOMETER KNOB

- This knob is used to make adjustments to the sensitivity of the underload protection. Factory default is set to 65% of STA (based on FE motor current) needed to trip the motor. In case of deep or shallow underloads, the sensitivity level can be adjusted within the range of 20% to 95% of STA. If SW1-1 is UP, this switch is ignored by the drive and the setting is taken from the mobile app.

(8) PRESSURE SET POINT POTENTIOMETER KNOB

- This knob is used to make adjustments to the desired system set point pressure. Factory default is set to 50 psi. The adjustable range is 5 psi to 100 psi. This knob can only be used with a 4-20 mA 100 psi transducer. If SW1-1 is UP, this switch is ignored by the drive and the setting is taken from the mobile app.

(9) BATTERY BACKUP FOR REAL-TIME CLOCK

(10) LCD DISPLAY

- A 5.5-inch display used to show system and diagnostic information. When using an analog pressure transducer, the display will show system pressure in psi. 50 psi is shown as "00." When using the traditional "Hobbes-style" pressure switch, the display will show motor/pump speed in RPM. 500 RPM will be shown as "60." When displaying diagnostic fault codes, the display will show "F" followed by the fault code number. For example, an underload fault would be indicated by "F1" on the display drive. This is cleaner and more informative than the flashing green and red lights.

(11) WI-FI STATUS LIGHT / WI-FI MODULE

- This light indicates the status of the WI-FI connection used for the mobile app. "ON" means the drive is ready to be connected to. "ONT/LNG" means a device is connected to the drive. OFF means the drive is not broadcasting a WI-FI signal. The WI-FI is available for connection for 15 minutes after the drive is powered on. If no connection is made in 15 minutes, the radio is turned off to avoid unauthorized connections. A power cycle is required in order to reestablish the WI-FI signal.

(12) ALTERNATOR

- **Terminal Block**
  - Connection for communication cable between the (2) SubDrive/MonoDrive Connect units to facilitate the build-in DC alternator function. Communication cable must be connected between the drives and each drive must be configured via the mobile app to enable alternator mode. Duplex alternator cables come in the following lengths: 10 ft (226895901), 50 ft (226895902), and 100 ft (226895903).

(13) WET SENSOR/MOISTURE SENSOR

- **Terminal Block**
  - This terminal block is for installing a moisture sensor (226794790). The moisture sensor returns a 24 VDC signal between the -1 and -2 terminals when water is detected. Multiple moisture sensors may be installed in parallel.

(14) AND (20) INPUT AND OUTPUT TERMINALS

- Input power and output motor terminals are used to accept a wide range of wire sizes from 6 to 20 AWG. If using longer runs that require larger than 6 AWG wire, the wire must be properly terminated to prevent installation in the drive terminal block(s).

(15) AUX INPUT

- **Terminal Block**
  - This terminal block is for wiring an external switch or sensor. The AUX IN is a 24 VDC digital input and can be used with the internal 24 VDC supply from the drive, or with an external device with its own 24 VDC supply. The default setting is FAULT WHEN HIGH (open circuit). This terminal is wired as follows:

(16) PRESSURE SENSOR

- **Terminal Block**
  - This terminal block is used to install the traditional SubDrive pressure sensor ("Hobbes-style") switch. SubDrive/MonoDrive Connect units ship standard with a 4-20 mA 100 psi analog pressure transducer and are configured by default to operate with the transducer. If the user wants to use the traditional pressure sensor switch, DIP-SW-5 must be in the UP (PS) position. New # number (226895906) has been created for customers to order the stainless steel, NSF-approved, 1/4" NPT size, pressure sensor that previously shipped standard with SubDrive/MonoDrive NEMA 3R units.

(17) TRANSDUCER

- **Terminal Block**
  - This terminal block is used to install a 4-20 mA analog pressure transducer. SubDrive/MonoDrive Connect units ship standard with a 4-20 mA 100 psi transducer and are configured by default to operate with the 100 psi transducer by using the pressure set point potentiometer knob on the display board to set the desired system pressure. If the user wishes to use a 4-20 mA with a range other than the standard 100 psi, the FE Connect DIP switch (SW1-2) must be in the UP (UP) position and the FE Connect mobile app must be used to set the transducer range and system point of set. A minimum range of 100 psi may be used.

(18) ALARM RELAY

- **Terminal Block**
  - The Alarm Relay is used to provide external indication of control when the system is actively faulted. This function can be used to control an external indication pilot lamp, auto-dialer, or other device used to notify the system of a potential failure. Terminal 1 may be configured via the mobile app to enable duplex alternator mode. Duplex alternator cables come in the following lengths: 10 ft (226895901), 50 ft (226895902), and 100 ft (226895903).

(19) RUN RELAY

- **Terminal Block**
  - The Run Relay is used to provide external indication of control when the system is actively running the motor/pump. This function can be used to control an external indication pilot lamp, run counter/timer, or other devices that are used when water is being pumped by the drive.

(20) DRIVE COOLING FAN

- The drive cooling fan is a variable speed fan that runs only as fast as needed to cool the drive, which results in quieter drive operation. The fan is also replaceable as a service part. Replacement fan kits are (226459404) for MD, and (226459500), (226459600) and (226459700) for SD.