



Siemens Variable Frequency Drive (VFD) Irrigation Package

1.0 Quick Start

Contact Your Distributor If No Electrical Schematics Were Provided with Panel

1. Verify NAE Serial on Electrical Schematics matches the serial number posted inside of enclosure
2. Connect Motor Leads to U,V,W terminals on VFD, Torque to specification on schematic
3. Connect incoming power to line side of disconnect, torque to specifications on Electrical Schematics.
Ensure Proper grounding per NEC and Local Code
4. Configure any phase or voltage protection devices to the appropriate settings for your incoming power.
For MotorSaver, these instructions are posted inside of enclosure.
5. Power the panel on by moving the disconnect into the **"ON"** position
6. Once Powered, verify any phase or voltage protection devices are not faulted.
i.e. MotorSaver-460 status light is green. If not, refer to instructions posted in enclosure
7. Move **"Hand Off Auto"** switch to **"HAND"** position
8. Press **"Start"** button. This will initiate a Motor Identification.
9. Once Motor Identification is completed, Move **"Hand Off Auto"** switch to **"OFF"**
10. The panel is now ready for operation

2.0 Auto Mode Configuration

Auto mode has three options for operation

2.1 24/7 Timer Control: Default Control Method

To set the 24/7 Timer, follow instructions below

Step	Key	Programming
1	Press P	Setting 1 ON time (display 1on)
2	Press H+/M+	Setting hours and minutes
3	Press D+	To select same every day, or different time each day
4	Press P	Setting 1 off time (display 1 off)
5	Press H+/M+	Setting hours and minutes turn off time
6	Press D+	If you want the same every day, you need not press this key
7	Repeat 2-6	Set 2-17 on/off time
8	Press ⏻	End

If you do not need 17 settings, press “⏻” to end.

2.2 Remote Start Control

To bypass the 24/7 Timer with an External Run signal, remove jumper “J1” and wire NO contact across terminals designated on schematic.

2.3 PID Control (Transducer Control)

By default, in AUTO mode, a 4-20mA signal may be used as input to PID controller for use in process control. To connect transducer, wire leads from transducer according to Electrical Schematics.

When using PID control in AUTO, Speed Potentiometer on front of enclosure will be used to select setpoint.

i.e. 50% setting on Speed Potentiometer will maintain 50% of the max value of transducer.

CONTACT INFORMATION:

North American Electric, Inc.

Phone: 662-429-8049 Toll Free (800) 884-0404 Fax: (662) 429-8546
350 Vaiden Dr., Hernando, MS 38632 www.naemotors.com

