

YX9000/V9 Constant Pressure Water Supply Manual (V1.1)

This commissioning manual applies to the inverter software version number: (P7.09=9900, P7.10=1.00)

I Quick guide

One-key setting of macro parameters, the inverter enters the default constant pressure water supply mode.

One key to set parameters:P0.01=10

The first row of operation can switch the output frequency, current, and set pressure;

The second row shows the feedback pressure

Default mode scene mode:

The set pressure is 0.500MPa, which can be directly adjusted with the up and down keys on the panel;

Pressure gauge range: 1.0MPa;

Sleep frequency: 25.00HZ

Reach the set pressure value 100%, (P6.37 sleep pressure percentage)

Sleep after 5 seconds; (sleep determination time P6.38)

The panel displays the sleep state of SLEEP.

80% lower than the set value, (P6.35 wake-up pressure percentage),

Restart after 2 seconds. (Wake up determination time P6.36)

II Related parameter description

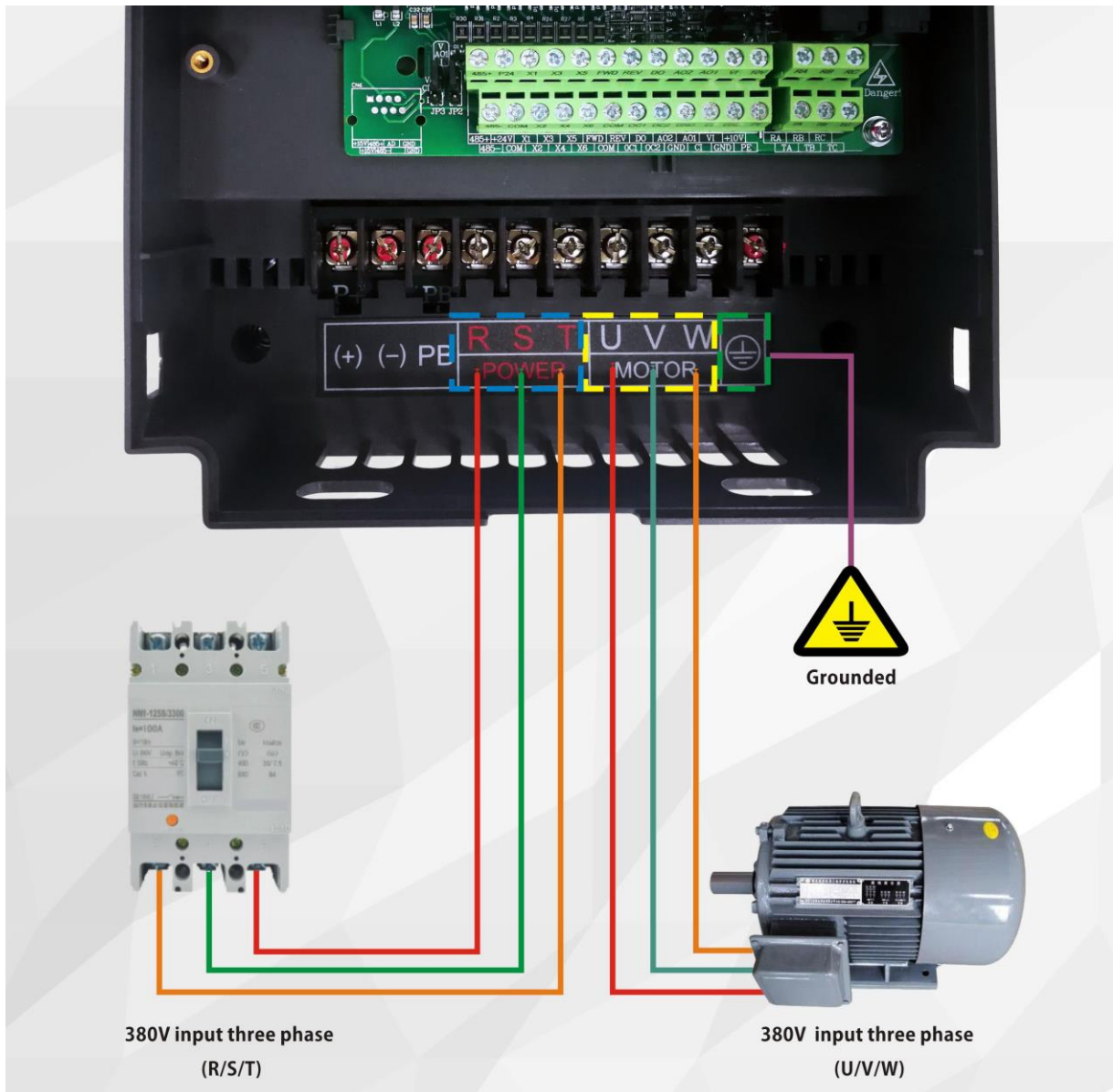
| function code | Item | Description |
|---------------|---|--|
| P0.01 | P0.01=10 Constant pressure water supply mode | Set P0.01=10 to set the default parameters with one key. If you need to adjust other more parameter functions, please refer to the description of water supply parameters. |
| P6.02 | Feedback pressure signal:0: VI Remote pressure gauge (0-10V) 9: CI Pressure Sensor (4-20mA) | Feedback signal settings are generally divided into: Remote pressure gauge (voltage type) Pressure sensor (current type) |
| P6.04 | Pressure gauge/sensor Range | Pressure gauge/sensor Range |
| P6.06 | Proportional gain | This parameter can adjust the speed of system adjustment response |

| function code | Item | Description |
|---------------|--|--|
| P6.30 | Given pressure | Set the target pressure, which can be adjusted by the up and down keys on the panel |
| P6.31 | Set the maximum pressure value with the up and down keys | Set the maximum pressure limit value with the panel up and down keys |
| P6.32 | Set the minimum pressure value with the up and down keys | Set the minimum pressure value with the panel up and down keys |
| P6.33 | Alarm upper limit pressure output | Multifunction switch output (relay output) function 42 |
| P6.34 | Alarm lower limit pressure output | Multi-function switch output (relay output) function 43 |
| P6.35 | Awakening pressure level | In the sleep state, the inverter enters the running state if it is lower than this level and after the judgment time of P6.36 |
| P6.36 | Wake up pressure preparation continuous time | - |
| P6.37 | Sleep pressure level | In the running state, after reaching the sleep condition, it enters the sleep state after the judgment time of P6.38. The panel of the inverter in the sleep state displays SLEEP. |
| P6.38 | Sleep pressure level continuous time | - |
| P6.39 | Sleep frequency | The lower limit frequency of the inverter operation and the judgment of the sleep condition according to the setting of P6.41 |
| P6.40 | Sleep frequency continuous time | - |
| P6.41 | Units place: Sleep selection 0: Sleep frequency conditions are valid 1: Invalid sleep frequency condition Tens place: percentage 0: Awakening sleep pressure is the actual pressure 1: Wake up sleep pressure as a percentage of the set pressure | Sleep selection: When the sleep frequency is invalid, when the sleep pressure level is reached, the condition is satisfied. When the high-level water supply or the slender pipe cannot enter the sleep state, the sleep frequency must be selected to be valid. Percentage: This bit selects whether the wake-up sleep pressure is the actual pressure or the set pressure percentage. |
| P6.42 | Locked-rotor judgment time | Factory value 60 seconds |

III Wiring diagram

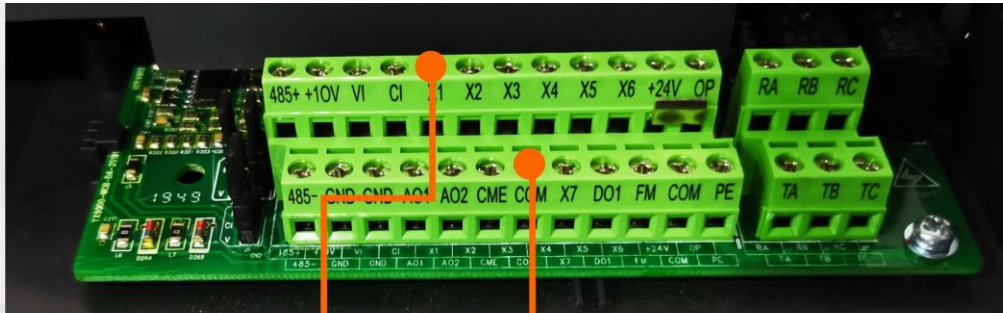
3.1 Main circuit wiring diagram

The following figure takes 7.5KW as an example. Among them, the three-phase power input is R/S/T, and the three-phase output U/V/W is connected to the motor. For details, please refer to the user manual.



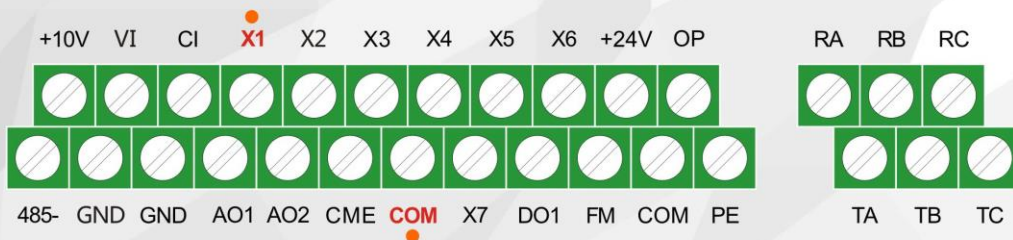
3.2 Schematic diagram of external start and stop

Two-wire system (parameter:P0.03=1)

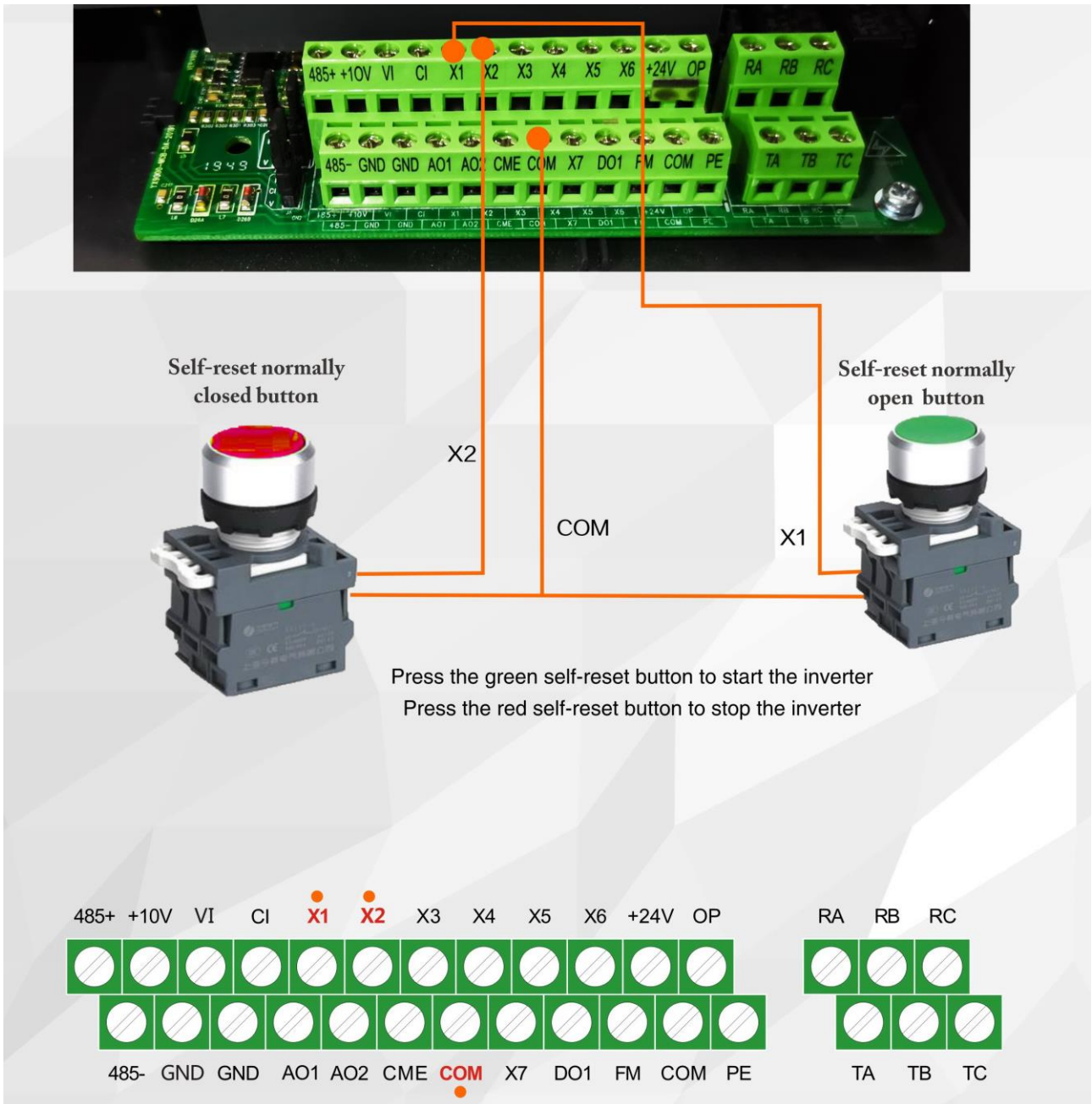


X1 COM

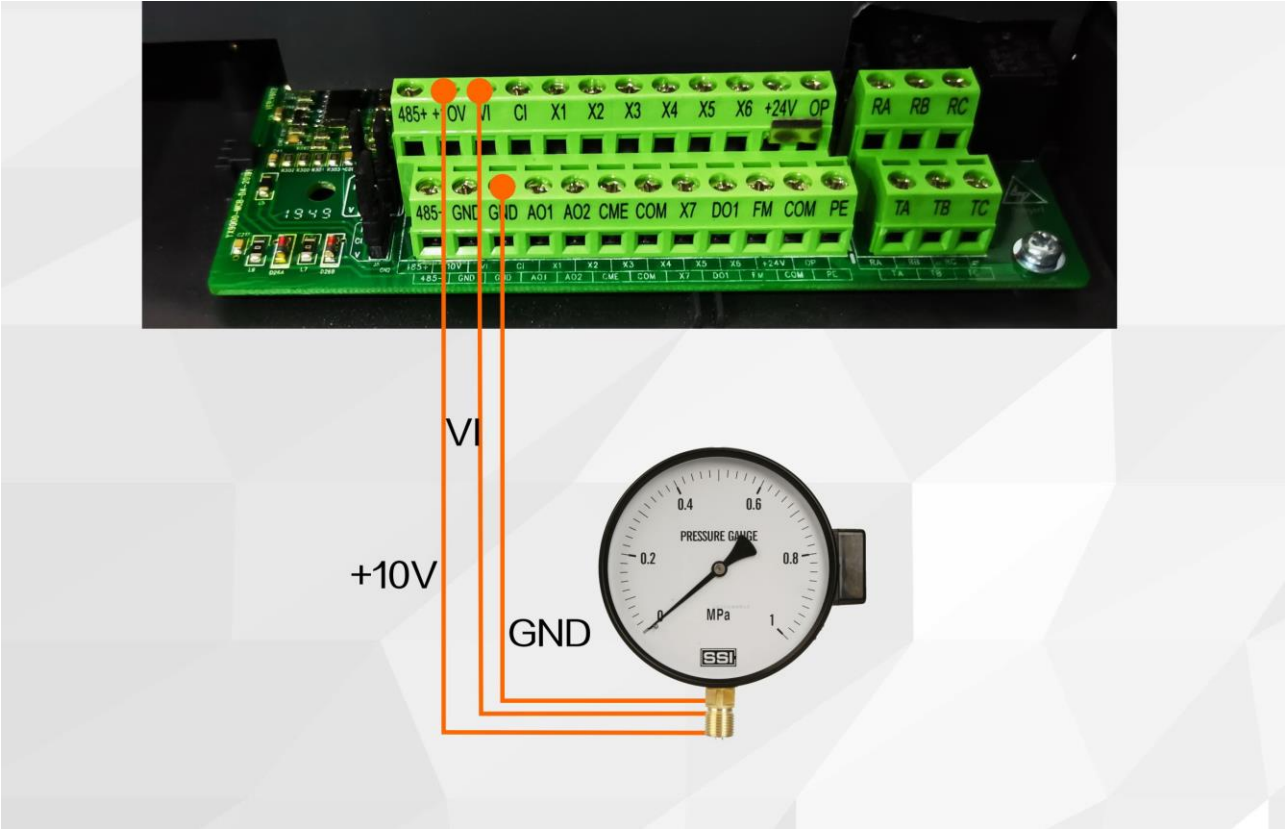
FWD terminal and COM terminal are connected to the inverter to start
The inverter stops when the FWD terminal and COM terminal are disconnected



Three-wire system (parameters: P0.03=1, P3.00=1, P3.01=3, P3.14=3)



3.3 Wiring diagram of pressure gauge (parameter: P6.02=0)



3.4 Pressure sensor two-wire wiring diagram (P6.02=9, CIN jumper to I side)

