

Quick Commissioning Guide_1.2

A. Power on initially

- 1, Check whether the wiring is correct.
- 2, Check whether the up-left side of the LCD panel is in LOC state.(It is of operation panel control of ES350 series inverter when the Remote LED is off.) If not, press **LOC/REMOTE** button on the panel to switch to LOC control.
- 3, Set the speed to 150RPM, then check the rotation direction of the motor, you can change the rotation direction via two ways: 1, Switching any two phases of input power of the motor.2, Set parameter 63.08=1.

B. Motor Auto-turning.

- 1,Set the motor parameters properly in 63 parameter group(63.00-63.04) according to the motor nameplate.
- 2,Do normal auto-turning or standstill auto-turning according to the motor connection situations at site. Set 63.06=1 (normal auto-turning),set 63.06=2 (standstill auto-turning),then press **START** button on the LCD panel to start auto-turning, it will be finished when the LED on the panel is off.
- 2,Run the motor with no-load to see whether the current,voltage ,etc. Is normal or not.

C. Start mode & Speed reference

- 1, LOC means Local control which AC drive is controlled by LCD panel.
- 2, REM means Remote control which AC drive is controlled by remote signals. DI1 is default for forward rotation,DI2 is default for reverse rotation, AI1 is default for speed reference.

PS: when ES350 selected remote mode , the “REMOTE” light will be always on.

If you want to change the default value ,you can modify the parameters as follows:

- 1, Change the start mode, parameter:10.00;

PS: you can start the inverter via external terminal, operation panel or

communication mode.

2, Change the speed reference, parameter:21.00;

PS: the speed reference can be given via AI2/AI3, operation panel, communication, PID, external terminal, multi-speed reference, and pulse (via DI7 terminal).

D. Others

1, JOG frequency settings:

Set 10.10=1 to enable JOG function, and then set 10.08 to stimulate the corresponding DI terminals.

JOG speed is set via 21.05(Negative value means reverse rotation)

Acceleration time and deceleration time is set via 22.05 and 22.06.

2, Acc & Dec time

22.00 Acc time

22.01 Dec time

3, Maximum speed setting:

20.00 Maximum speed;

20.01 Minimum speed;

4, Relay output setting;

14.31 RO1 source;

14.32 RO2 source;

5, Recovery to factory settings :

Set 16.03=1 recovery all parameters except motor parameters.

Set 16.03=2 recovery all parameters.

6, Fault reset

Set 30.00 to corresponding DI terminals.

E. Application cases

1, A potentiometer is used to adjust the speed via AI1 channel, the rated motor speed is 1500 rpm ,but need to run at 1800 rpm for maximum and 60 rpm for minimum.

Set 20.00=1800(Maximum speed)

Set 13.05=1800(AI1 maximum scaled rpm)

Set 13.06=60 (AI1 minimum scaled rpm)

2 ,Speed reference is given via AI2 channel(4-20mA)

Switch the DIP to “ I ” position.

Set 21.00= AI2 scaled value.

Set 13.07= current

Set 13.10=20mA

Set 13.11=4mA

F. Rapid trouble shooting for common problems

1, No response when external terminal start-up.

① Check whether the inverter is in **REM** state (in up-left side of LCD panel).

② Check whether the LED in up-left side of the panel is **on**, if so ,then check the speed reference.

③ Check parameter 02.00, to see whether there is a DI signal , and whether it is the same as DI source.

2, The speed can not be adjusted.

① Check whether the inverter is in **REM** state (in up-left side of LCD panel).

② Check parameter 21.00 to see the speed reference channel.

③ Check the scaled value in parameter 02 group to see whether the value is changing along with the setting value.

3, The deceleration time for stopping is not the same as setting value.

Check whether the DC_BUS voltage is above 700VDC, if so, you had better to add a DC chopper and resistor. Then set 60.07=Disable.

4, Display a OC fault during running.

① Set a long acceleration time.

② Check whether the setting values in parameter 63 group are the same as the motor nameplate.