

CNC Router Inverter Alarm Condition

1. Bus bar under voltage fault protection (E001)

① **Whether** there is an instantaneous power failure ?

If **yes**, please Inverter reset.

If **no**, please detecting ② **whether** the inverter input voltage value within the specifications ?

If **no**, please adjust the power supply or exclude the external power supply circuit fault.

If **yes**, please measure the DC bus voltage ③ **whether** is normal ?

If the **DC bus voltage is not normal**, please check ④ **whether** the rectifier bridge and the buffer resistance is normal ?

If **no**, please replace damaged bridge rectifier and buffer resistor.

If **yes**, please check ⑤ **whether** the drive board is normal ?

If **no**, please replace the driver board.

If **yes**, please check ⑥ **whether** the main control board is normal ?

If **no**, please replace the control board.

As for ③ **whether**, if the **DC bus voltage is normal**, you can directly check ⑤ **whether** the drive board is normal.

If **no**, please replace the driver board.

If **yes**, please check ⑥ **whether** the main control board is normal.

If **no**, please replace the control board.

2. Acceleration over voltage protection (E002)

① **Whether** input voltage is too high ?

If **yes**, please set the voltage to normal range.

If **no**, ② **whether** there are external to run motor in the process of speeding up ?

If **yes**, please Cancel the external power or install braking resistor.

If **no**, ③ **whether** acceleration time is too short ?

If **yes**, Increase the acceleration time.

If **no**, ④ **Whether** equipped with a brake unit and brake resistor?

If **no**, Installation of brake unit and resistor.

If **yes**, Seek technical support.

3. Constant speed over voltage protection (E003)

① **Whether** input voltage is too high ?

If **yes**, Set the voltage to normal range.

If **no**, ② **whether** there are external to run motor in the process of speeding up ?

If **yes**, please Cancel the external power or install braking resistor.

If **no**, Seek technical support.

4. Acceleration over-current protection (E004)

Check ① **whether** the inverter output circuit or short circuit to ground ?

If yes, Exclude peripheral fault.

If no, ② **Whether** the motor parameters self-learning?

If no, the motor parameters self-learning.

If yes, ③ **whether** acceleration time is too short?

If yes, Increase the acceleration time.

If no, ④ **whether** Manual torque boost or V / F curve is appropriate?

If no, Adjust the manual torque boost or V / F curve.

If yes, ⑤ **Whether** the voltage is low ?

If yes, Set the voltage to normal range.

If no, ⑥ **Whether** the rotating click to start ?

If yes, Select the speed tracking restart or wait until the motor stops.

If no, ⑦ **whether** is there a load on the acceleration process?

If yes, Cancel sudden load.

If no, Selection of the inverter is too small.

5. Deceleration overcurrent protection (E005)

Check ① **whether** the inverter output circuit or short circuit to ground ?

If yes, Exclude peripheral fault.

If no, ② **Whether** the motor parameters self-learning?

If no, the motor parameters self-learning.

If yes, ③ **whether** acceleration time is too short?

If yes, Increase the acceleration time.

If no, ④ **Whether** the voltage is low ?

If yes, Set the voltage to normal range.

If no, ⑤ **whether** is there a load on the acceleration process?

If yes, Cancel sudden load.

If no, ④ **Whether** equipped with a brake unit and brake resistor?

If no, Installation of brake unit and brake resistor.

If yes, Seek technical support.

6. Constant speed overcurrent protection (E006)

Check ① **whether** inverter output circuit is for shorts or leakage current ?

If yes, Exclude peripheral fault, if the line is too long then add the output of the reactor.

If no, ② **Whether** the motor parameters self-learning?

If no, the motor parameters self-learning.

If yes, ③ **whether** is there a sudden load in operation?

If yes, Cancel sudden load.

If no, ④ **Whether** the converter load can be reduced?

If yes, Lighten the load.

If no, Inverter type is too small.