

## Chapter 7 Troubleshooting

HD20 series inverter has inbuilt protective and warning self-diagnostic functions. If a fault occurs, the fault code will be displayed on the display panel. At the same time, fault relay acts, accordingly the inverter stops output and the motor coasts to stop.

When fault or alarm occurs, please record the fault details and take proper actions according to the below Table 7-1. If you need some technical help, please contact to the suppliers or directly call Shenzhen Hpmont Technology Co., Ltd.

After the fault is eliminated, please reset the inverter by any of the following methods:

1. Display panel.
2. External reset terminal (multi-function terminal set as No. 46 function).
3. Communication.
4. Switching on the inverter after switching off.

Table 7-1 Fault alarm description and counter-measures

Fault code	Fault name	Possible reasons of fault	Counter-measures
-Lu-	DC bus undervoltage	<ul style="list-style-type: none"> <li>- At the beginning of powering on and at the end of powering off</li> <li>- Input voltage is too low</li> <li>- Improper wiring leads to undervoltage of hardware</li> </ul>	<ul style="list-style-type: none"> <li>- It is normal status of powering on and powering off</li> <li>- Please check input power voltage</li> <li>- Please check wiring and wire the inverter properly</li> </ul>
E0001	Inverter output overcurrent (in acceleration process)	<ul style="list-style-type: none"> <li>- Improper connection between inverter and motor</li> <li>- Improper motor parameters</li> <li>- The rating of the used inverter is too small</li> <li>- Acceleration/deceleration time is too short</li> </ul>	<ul style="list-style-type: none"> <li>- Connect the inverter and motor properly</li> <li>- Please set correct motor parameters (F08.00—F08.04, F13.01—F13.05)</li> <li>- Select inverter with higher rating</li> <li>- Please set proper acceleration time and deceleration time (F03.01—F03.08)</li> </ul>
E0002	Inverter output overcurrent (in deceleration process)	<ul style="list-style-type: none"> <li>- Instant stop occurs, the running motor is restarted</li> </ul>	<ul style="list-style-type: none"> <li>- Please set start mode to be speed tracking (F02.00 = 2)</li> </ul>
E0003	Inverter output overcurrent (in constant speed process)		
E0004	DC bus over voltage (in acceleration process)	<ul style="list-style-type: none"> <li>- Input voltage is too high</li> <li>- Deceleration time is too short</li> <li>- Improper wiring leads to overvoltage of hardware</li> </ul>	<ul style="list-style-type: none"> <li>- Please check power input</li> <li>- Please set a proper value for deceleration time (F03.02, F03.04, F03.06, F03.08)</li> </ul>
E0005	DC bus over voltage (in deceleration process)	<ul style="list-style-type: none"> <li>- Instant stop occurs, the running motor is restarted</li> <li>- Improper selection of the braking devices</li> </ul>	<ul style="list-style-type: none"> <li>- Please check wiring and wire the inverter properly</li> <li>- Please set start mode to be speed tracking (F02.00 = 2)</li> <li>- Select the braking devices in accordance with the section 9.2</li> </ul>
E0006	DC bus over voltage (in constant speed process)		

# Trane Ysc120a3 Trouble Shooting Manual

**M Tight**

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