

## Fault Codes

| No.  | Fault                            | Description                                                                                                                                                                                                                                                                                                                                                       |
|------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F2   | Auxiliary Input <sup>(1)</sup>   | Check remote wiring.<br>Verify communications programming for intentional fault.                                                                                                                                                                                                                                                                                  |
| F3   | Power Loss                       | Monitor the incoming AC line for low voltage or line power interruption.<br>Check input fuses.                                                                                                                                                                                                                                                                    |
| F4   | UnderVoltage <sup>(1)</sup>      | Monitor the incoming AC line for low voltage or line power interruption.                                                                                                                                                                                                                                                                                          |
| F5   | OverVoltage <sup>(1)</sup>       | Monitor the AC line for high line voltage or transient conditions. Bus overvoltage can also be caused by motor regeneration. Extend the decel time or install dynamic brake option.                                                                                                                                                                               |
| F6   | Motor Stalled <sup>(1)</sup>     | Increase [Accel Time x] or reduce load so drive output current does not exceed the current set by parameter A089 [Current Limit].                                                                                                                                                                                                                                 |
| F7   | Motor Overload <sup>(1)</sup>    | An excessive motor load exists. Reduce load so drive output current does not exceed the current set by parameter P033 [Motor OL Current]. Verify A084 [Boost Select] setting.                                                                                                                                                                                     |
| F8   | Heatsink OvrTmp <sup>(1)</sup>   | Check for blocked or dirty heat sink fins. Verify that ambient temperature has not exceeded 40°C (104°F) for IP 30 NEMA 1/UL Type 1 installations or 50°C (122°F) for Open type installations.<br>Check fan.                                                                                                                                                      |
| F12  | HW OverCurrent                   | Check programming. Check for excess load, improper DC boost setting, DC brake volts set too high or other causes of excess current.                                                                                                                                                                                                                               |
| F13  | Ground Fault                     | Check the motor and external wiring to the drive output terminals for a grounded condition.                                                                                                                                                                                                                                                                       |
| F29  | Analog Input Loss <sup>(1)</sup> | An analog input is configured to fault on signal loss. A signal loss has occurred.<br>Check parameters. Check for broken/loose connections at inputs.                                                                                                                                                                                                             |
| F33  | Auto Rstrt Tries                 | Correct the cause of the fault and manually clear.                                                                                                                                                                                                                                                                                                                |
| F38  | Phase U to Gnd                   | Check the wiring between the drive and motor.                                                                                                                                                                                                                                                                                                                     |
| F39  | Phase V to Gnd                   | Check motor for grounded phase.                                                                                                                                                                                                                                                                                                                                   |
| F40  | Phase W to Gnd                   | Replace drive if fault cannot be cleared.                                                                                                                                                                                                                                                                                                                         |
| F41  | Phase UV Short                   | Check the motor and drive output terminal wiring for a shorted condition.                                                                                                                                                                                                                                                                                         |
| F42  | Phase UW Short                   | Replace drive if fault cannot be cleared.                                                                                                                                                                                                                                                                                                                         |
| F43  | Phase VW Short                   |                                                                                                                                                                                                                                                                                                                                                                   |
| F48  | Params Defaulted                 | The drive was commanded to write default values to EEPROM.<br>Clear the fault or cycle power to the drive. Program the drive parameters as needed.                                                                                                                                                                                                                |
| F63  | SW OverCurrent <sup>(1)</sup>    | Check load requirements and A098 [SW Current Trip] setting.                                                                                                                                                                                                                                                                                                       |
| F64  | Drive Overload                   | Reduce load or extend Accel Time.                                                                                                                                                                                                                                                                                                                                 |
| F70  | Power Unit                       | Cycle power. Replace drive if fault cannot be cleared.                                                                                                                                                                                                                                                                                                            |
| F71  | Net Loss                         | The communication network has faulted.<br>Cycle power. Check communications cabling.<br>Check network adapter setting. Check external network status.                                                                                                                                                                                                             |
| F80  | SVC Autotune                     | The autotune function was either cancelled by the user or failed. Restart procedure.                                                                                                                                                                                                                                                                              |
| F81  | Comm Loss                        | If adapter was not intentionally disconnected, check wiring to the port. Replace wiring, port expander, adapters or complete drive as required.<br>Check connection.<br>An adapter was intentionally disconnected. Turn off using A105 [Comm Loss Action].<br>Connecting I/O Terminal 04 to ground may improve noise immunity.                                    |
| F91  | Encoder Loss                     | Requires differential encoder. One of the 2 encoder channel signals is missing.<br>Check Wiring.<br>If P038 [Speed Reference] = 9 "Positioning" and E216 [Motor Fdbk Type] = 5 "Quad Check" swap the Encoder channel inputs (see page 13) or swap any two motor leads.<br>Replace encoder.                                                                        |
| F100 | Parameter Checksum               | Restore factory defaults.                                                                                                                                                                                                                                                                                                                                         |
| F111 | Enable Hardware                  | DriveGuard Safe-Off Option (Series B) board is installed and the ENBL enable jumper has not been removed.<br>Remove the ENBL enable jumper. Cycle power.<br>DriveGuard Safe-Off Option (Series B) board has failed.<br>Remove power to the drive. Replace DriveGuard Safe-Off Option (Series B) board.<br>Hardware Enable circuitry has failed.<br>Replace drive. |
| F122 | I/O Board Fail                   | Cycle power. Replace drive if fault cannot be cleared.                                                                                                                                                                                                                                                                                                            |

<sup>(1)</sup> Auto-Reset/Run type fault. Configure with parameters A092 and A093.

# Allen Bradley Powerflex 4 Error Codes

**Haynes Publishing**

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### **Allen Bradley Powerflex 4 Error Codes:**

*Fault Code Manual* Haynes Publishing, 2013-10 This DIY manual covers everything you need to know about automotive diagnostic fault codes

## **Allen Bradley Powerflex 4 Error Codes** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Allen Bradley Powerflex 4 Error Codes**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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