VFD ERROR CODES

Some VFD issues can be resolved before requesting service. Review the below warning and fault messages before contacting Customer Service for support.

Status and warning messages

Error Code	Description and Corrective Action
Ē	EPM Contains Earlier Firmware Version This error occurs when you try to change a VFD parameter and the EPM firmware is older than the VFD firmware.
30	To correct this condition , press the STOP button, and then press the Memory/Enter button. Use the UP/DOWN button to scroll to P199 . Press the Memory/Enter button. Use the UP/ DOWN button to scroll to a setting of 5 . Press the Memory/Enter button to save the change. The VFD is now able to read/write the EPM properly.
	Current Limit
CL	Verify proper motor wiring and HP. Check for short circuits. Increase acceleration time.
33b	Decel Override The fan is stopping too fast, causing a DC Bus overvoltage. The drive is backing off the deceleration rate to prevent HP (Over-voltage) fault.
Err	Error Invalid data or invalid command entered
FCL	Fast Current Limit Overload
	Check for short circuits throughout the load. Increase acceleration time.
FSt	Flying Restart Attempt after Fault
58	Program Attempt Made in OEM Settings Mode (P199=1) Parameter changes are not permitted.
	Reset EPM to OEM Defaults Failure
<u> </u>	The EPM's OEM dataset is missing or corrupt.
LC	Fault Lockout Auto restart failure after five unsuccessful restart attempts
SP	Start Pending The drive has tripped and is waiting to restart.
StoP	Fan Stopped Output frequency is 0 Hz



Fault messages

Error Code	Description and Corrective Action
c oc	High Temperature Fault
F_8F	Check for excessive load or a dirty heatsink. Improve the drive cooling ability.
C 01	Assertion Level Fault
F_8L	Check the assertion level switch relative to P120.
C 6C	Personality Fault
F_9F	Drive hardware error
	Cycle power, and then reprogram EPM. If the fault will not clear, replace the drive and EPM.
F_CF	Control Fault Drive hardware error
	Cycle power, and then reprogram EPM. If the fault will not clear, replace the drive and EPM.
	Incompatible EPM Fault
F_cF	Drive hardware error
•	Cycle power, and then reprogram EPM. If the fault will not clear, replace the drive and EPM.
<u> </u>	External Fault
F_EF	Digital input programmed for this feature has been energized/de-energized depending on
	programming. P121–P124 EPM Fault
F_F!	EPM is missing or defective
•• •	Replace the EPM.
53_3	Hardware Failure
	Replace the drive.
to	
513	
C C 1	4–20 mA Signal Loss
7_70L	Check signal source and wiring, i.e., SmartSense wiring error.
	OEM Defaults Data Fault
	The OEM parameters in the EPM module do not match the anticipated defaults according to
C CC	the VFD. This fault may appear immediately upon VFD power-up.
F_6F	To correct this condition , press the STOP button, and then press the Memory/Enter button. Use the UP/DOWN button to scroll to P199 . Press the Memory/Enter button. Use the UP/
	DOWN button to scroll to a setting of 0 . Press the Memory/Enter button to save the change.
	The VFD is now able to read/write the EPM properly.
c uc	High Voltage Fault
F_XF	Check AC incoming power or increase fan deceleration time.
	Low Voltage Fault
F_LF	Check AC incoming power.



Error Code	Description and Corrective Action
F_0F	Output Transistor Fault Short circuit, excessive load, excessive cable charging current Verify correct load (motor HP, motor wiring, cable length, cable type).
F_0F!	Motor Short to Ground
۶ <u>_</u> ۹۶	Motor Thermal OL Check actual motor current against FLA (P108).
F_rF	Flying Restart Fault Failed motor speed sync attempt
F_SF	Single Phase Fault Incoming AC line phase loss Check supply power.
F_UF	Start Fault Start command was present on power-up Cycle start command.

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Error Code	Description and Corrective Action
PS00	Fault History (n.xxx) N = 1–8 xxx = Fault code
PS01	Software Version
2029	Drive ID
PS03	Internal Code (x.yz)
PSOS	DC Bus Voltage (divided by 1.414 = approximate line input voltage)
PS06	RMS Equivalent Motor Voltage at Drive Output Terminals
PS07	Motor Load (% of drive output rating)



Error Code	Description and Corrective Action
PS08	Actual Motor Current in Amperes
PS09	Torque as a Percentage of Motor Rated Torque (vector mode only)
PSI0	Drive Output Power in kW
PSII	Total kWH for Drive Lifetime
5:29	Heatsink Temperature Degrees Celsius
9550	0–10 VDC Input Voltage (VDC)
1554	4–20 mA Input Current (mA)
2529	Analog Output Level (VDC)
7529	Actual Drive Output Frequency (Hz)
8558	Network Speed Command (Hz)
P540	Total Runtime (hours)
PSYI	Total Powered-On Time (hours)
PSS0	Fault History (n.xxx) N = 1–8 xxx = Fault code

