

Trouble Shooting

NO.	FAULT	TYPE	DESCRIPTION	ACTION
F2	Auxiliary Input	1	Auxiliary input interlock is open.	<ol style="list-style-type: none"> 1. Check remote wiring. 2. Verify communications programming for intentional fault.
F3	Power Loss	2	DC bus voltage remained below 85% of nominal.	<ol style="list-style-type: none"> 1. Monitor the incoming AC line for low voltage or line power interruption. 2. Check input fuses.
F4	Under Voltage	1	DC bus voltage fell below the minimum value.	Monitor the incoming AC line for low voltage or line power interruption.
F5	Over Voltage	1	DC bus voltage exceeded maximum value.	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	1	Drive is unable to accelerate motor.	Increase P109 and/or A402 [Accel Time x] or reduce load so drive output current does not exceed the current set by parameter A441 [Current Limit].
F7	Motor Overload	1	Internal electronic overload trip.	<ol style="list-style-type: none"> 1. An excessive motor load exists. Reduce load so drive output current does not exceed the current set by parameter P103 [Motor OL Current]. 2. Verify A453 [Boost Select] setting.
F8	Heatsink OverTemp	1	Heatsink temperature exceeds a predefined value.	<ol style="list-style-type: none"> 1. Check for blocked or dirty heat sink fins. Verify that ambient temperature has not exceeded 40°C (104°F) for IP30/NEVA 1/UL Type 1 installations or 50°C (122°F) for IP20/Open type installations. 2. Check fan.
F12	HW OverCurrent	2	The drive output current has exceeded the hardware current limit.	Check programming. Check for excess load, improper A453 [Boost Select] setting, DC brake volts set too high or other causes of excess current.
F13	Ground Fault	2	A current path to earth ground has been detected at one or more of the drive output terminals.	Check the motor and external wiring to the drive output terminals for a grounded condition.



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F33	Auto Rstr: Trips	2	Drive unsuccessfully attempted to reset a fault and resume running for the programmed number of A451 [Auto Rstr: Trips]	Correct the cause of the fault and manually clear.
F36	Phase U to Gnd	2	A phase to ground fault has been detected between the drive and the motor in this phase.	<ol style="list-style-type: none"> 1. Check the wiring between the drive and motor. 2. Check motor for grounded phase. 3. Replace drive if fault cannot be cleared.
F39	Phase V to Gnd			
F40	Phase W to Gnd			
F41	Phase UV Short	2	Excessive current has been detected between these two output terminals.	<ol style="list-style-type: none"> 1. Check the motor and drive output terminal wiring for a shorted condition. 2. Replace drive if fault cannot be cleared.
F42	Phase UW Short			
F43	Phase VW Short			
F46	Params Defaulted		The drive was commanded to write default values to EEPROM	<ol style="list-style-type: none"> 1. Clear the fault or cycle power to the drive. 2. Program the drive parameters as needed.
F63	SW OverCurrent	1	Programmed A448 [SW Current Trip] has been exceeded.	Check load requirements and A448 [SW Current Trip] setting
F64	Drive Overload	2	Drive rating of 150% for 1 minute or 200% for 3 seconds has been exceeded.	Reduce load or extend Accel Time.
F70	Power Unit	2	Failure has been detected in the drive power section.	<ol style="list-style-type: none"> 1. Cycle power. 2. Replace drive if fault cannot be cleared.
F81	Comm Loss	2	RS485 (DSI) port stopped communicating.	<ol style="list-style-type: none"> 1. If adapter was not intentionally disconnected, check wiring to the port. Replace wiring, port expander, adapters or complete drive as required. 2. Check connection. 3. An adapter was intentionally disconnected. 4. Turn off using C304 [Comm Loss Action].

