

لیست خطاهای درایو سانترنو

Santerno

Sinus vega

کد خطا	توضیح
F.OC1 F.OC2 F.OC3	Over current خطای اتصال کوتاه در خروجی درایو جریان بیش از حد در خروجی درایو است . موتور را از درایو باز کنید و به درایو فرمان حرکت بدهید اگر باز هم این خطا رخ داد , درایو نیاز به تعمیر دارد . موتور و کابل را هم چک کنید که اتصال کوتاه نداشته باشند. برای تعمیر با شماره 09132211861 تماس بگیرید.
F.OU1 F.OU2 F.OU3	Over voltage - خطای افزایش ولتاژ داخلی درایو - افزایش بیش از حد ولتاژ اگر بلافاصله پس از اینکه برق

	ورودی درایو را وصل می کنید این خطا رخ می دهد ولتاژ برق ورودی را چک کنید که زیاد نباشد . اگر برق ورودی در حد نرمال بود , درایو نیاز به تعمیر دارد . اما اگر این خطا در زمان کار درایو و به خصوص در زمان کاهش سرعت رخ می دهد , درایو نیاز به مقاومت ترمز Braking Resistor دارد. اگر قبلا نصب شده چک کنید که مقاومت ترمز نسوخته باشد و به درستی کار می کند . برای تعمیر با شماره 09132211861 تماس بگیرید.
F.P0U	ولتاژ تغذیه داخلی درایو , بیش از حد افزایش پیدا کرده و درایو مشکل داخلی دارد.
F.IPL	یکی از فازهای ورودی به درایو قطع شده است .
F.0PL	یکی یا چند تا از فازهای خروجی درایو , قطع شده و یا موتور دو فاز شده است.
F.FAL	یک خطای سخت افزاری در درایو , وجود دارد و یا یکی از حفاظتها فعال شده است .
F.OH1 F.OH2	خرابی فن خنک کننده درایو و یا بسته بودن مسیر عبور هوا و یا گرم بودن دمای تابلو و ... اگر همه موارد بالا چک شود و مشکلی نباشد درایو نیاز به تعمیر دارد .
	برای تعمیر با شماره 09132211861 تماس بگیرید.
F.OL1 F.OL2	Over load خطای اضافه بار موتور و یا اضافه بار درایو -
F.Ed	Emergency stop
F.EEP	خطای حافظه داخلی درایو -EEPROM یکبار درایو را تنظیم کارخانه کنید اگر مشکل حل نشد درایو نیاز به تعمیر دارد.
	برای تعمیر با شماره 09132211861 تماس بگیرید.
F.Con	کاهش ولتاژ داخلی درایو و یا مشکل بر روی برد کنترلی درایو و یا خرابی یکی از قطعات مدار قدرت و یا قطع شدن یکی از

	فازهای ورودی درایو برای تعمیر با شماره 09132211861 تماس بگیرید.
F.ct	خرابی مدار اندازه گیری جریان CT برای تعمیر با شماره 09132211861 تماس بگیرید.
F.cpu	خرابی cpu ویا مدار تغذیه داخلی درایو
F.tu	خطا در زمان اتوتیون

Code	Model	Reason	Solution
E001	Over-current fault	Acc/Dec time is too short. Inverter power is too small. Voltage is too low.	Prolong Acc/Dec time. Select larger capacity inverter. Inspect input voltage.
E002	Power module fault	Acc/Dec time is too short. Short-circuit on output side of inverter.	Prolong Acc/Dec time. Inspect motor insulation. Ask for support.



Code	Model	Reason	Solution
		Power module damaged. Exterior disturbances.	Inspect external equipment if has strong interference source.
E003	DC bus over-voltage fault	Dec time is too short and regenerative energy from the motor is too large. Network voltage is too high. Load is too heavy and regenerative energy is too large.	Prolong the Dec time. Inspect input voltage. Select larger capacity inverter.
E004	DC bus under-voltage fault	Network voltage is too low.	Inspect input voltage.
E005	Motor over-load fault	Network voltage is too low. Load is too heavy. Motor rated current setting is Incorrect. Inverter power is too small.	Inspect input voltage. Check the load, adjust torque boost value. Reinstall rated current of the motor. Select larger capacity inverter
E006	Inverter over-heat fault	Ambient temperature is too high.	Lower the ambient temperature.

Code	Model	Reason	Solution
		Inverter airiness is bad. Cooling fan does not work Detection circuit of temperature damaged	Clear the ventilation channel. Check or replace cooling fans Ask for support.
E007	Soft Startup fault	Soft startup circuit or contactor damaged	Ask for support.
E008	Reserved		
E009	Output phase fault	Current asymmetry on three-phase input side.	Check output wiring and motor insulation.
E010	External fault	Input terminals of external fault signal take effect. Keyboard stop key is set as an emergency stop.	Check reason of external fault. Check the setting of keyboard stop key.
E011	PID feedback disconnection fault	PID feedback disconnection	Please check the external wiring. Disconnection detection threshold setting is reasonable or not.
E012	Current detection circuit fault	Current detection device is damaged.	Ask for support.

Code	Model	Reason	Solution
E013	EEPROM failure to read and write	Control board parts are damaged. External disturbances.	Ask for support. Inspect external equipment if has strong interference source.
E014	Reserved		
E015	CPU is disturbed fault	External disturbances	Inspect external equipment if has strong interference source.
E030	Operation error alarm	This is a alarm, inverter output is not turn-off. Function code is locked Function code is prohibited to modify.	Press the "ESC key" exit alarm state. Check F1-000 function code Settings. Modifying the function code is prohibited in running.



Fault code	Display code	Fault description	Possible reasons	Actions
F.oC1		Over-current in Acc process	Too short Acc time	Prolong the Acc time
			V/F curve is not suitable	Check and adjust V/F curve, adjust torque boost or set the motor parameters correctly to ensure the normal auto torque boost works well.
			The rotating motor re-starts after the inverter stops re-starts after the inverter stops instantly	Start when the motor stops
			Low AC supply voltage	Check the inverter's input AC supply
			Inverter power is too small	Select a higher power inverter
F.oC2		Over-current in Dec process	Too short Dec time	Prolong the Dec time
			Negative-torque load or the load inertia is too high	Connect suitable braking device
			Too low inverter's power	Select the inverter with larger capacity
F.oC3		Over-current in constant speed operation	Sudden change of load	Reduce the change of the load
			Too short Acc/Dec time	Prolong Acc/Dec time
			Abnormal load	Check the load
			Low AC supply voltage	Check the AC supply voltage
			Too low inverter's power	Select the inverter with larger capacity
F.oU1		Over voltage in Acc process	Abnormal AC supply voltage	Check the AC supply voltage
			Too short Acc/Dec time	Prolong the Acc time
			The inverter is re-started with a rotating motor	Start when the motor stops
F.oU2		Over voltage in Dec process	Too short Dec time (with reference to generated energy)	Prolong the Dec time

Fault code	Display code	Fault description	Possible reasons	Actions
			Negative-torque load or the load inertia is too high	Use suitable dynamic braking device
F.oU3		Over voltage inconstant-speed operating process	Abnormal AC supply voltage	Check the AC supply voltage
			Too short Acc/Dec time	Prolong the Acc/Dec time
			Abnormal change of input voltage	Install input reactor
			Too high load inertia	Use suitable dynamic braking device
F.PoU		Over voltage of inverter's control power supply	Abnormal AC supply voltage	Check the AC supply voltage or seek service
F.IPL		input phase loss	Input R、S、T phase loss	Check the wiring and input voltage
F.oPL		Output phase loss	Output phase failure among Phase U, V and W	Check the inverter's output wiring Check the cable and the motor
F.FAL		Module protection	Instant overcurrent	See User's manual
			Interphase shorted or ground shorted	Re-wiring
			Fan duct blockage or damage	Clear the fan duct or replace the fan
			Ambient temperature is too high	Lower the ambient temperature
			Panel wiring or plug-ins loose	Check and re-wiring
			Output phase loss or some other reasons result in current waveform abnormalities	Check the wiring
			Charge voltage damaged, inverter voltage undervoltage	Seek service
			Straight bridge arm	Seek service
			Panel abnormal	Seek service
F.oH1		Rectifier's heatsink overheat	Ambient over-temperature	Lower the ambient temperature
			Obstruction of ventilation channel	Clear the ventilation channel
			Fan does not work	Replace the fan
			Inverter fault	Seek service
		Rectifier cooling	Ambient temperature is too	Lower the ambient

Fault code	Display code	Fault description	Possible reasons	Actions
		overtemperature	Fan duct blockage	Clear the fan duct
			Fan damaged	Replace the fan
F.oL1		Inverter overload	Too short Acc time	Prolong Acc time
			Too large DC braking energy	Reduce DC braking current, prolong braking time
			Improper V/F curveV/F	Adjust V/F curve or torque boost value
			The inverter is re-started with a rotating motor	Start when the motor stops
			Low AC supply voltage	Check the AC supply voltage
			Too heavy load	Select the inverter with larger power
F.oL2		Motor Overload	Improper V/F curveV/F	Set V/F curve and torque boost value correctly
			Low AC supply voltage	Check the AC supply voltage
			Common moter operating at low speed, large load for long time	Select special motor for such operating condition
			Incorrect setting of motor overload protection factor	Correct the setting
			Motor blocked or load sudden change	Check the load
F.Ed		Emergency stop or external equipment fails	Press STOP key when operating at non-keypad mode	Check the present operating mode
			Press STOP when the inverter is in stall status	Set the operating parameters correctly
			The inverter will report F.Ed fault if it is in stall status for 1 minute	Set the operating parameters correctly
			Terminal used for stopping the inverter in an emergency is closed	Disconnect the terminal if the external fault is cleared
F.EEP		E2PROM R/W fault	R/W fault of control parameters	Press STOP/RESET to reset
F.485		RS485 communication failure	Wrong baud rate setting	Set the baud rate correctly
			Serial port communication error	Press STOP/RESET to reset, Seek service
			Improper setting of alarm	Modify EP.02 EP.03 and

Fault code	Display code	Fault description	Possible reasons	Actions
			Host PC does not work	Check whether the host PC is working or not; Check the wiring
F.Con		Contactor fault	The voltage of power network is too low	Check the power network
			Contactor damaged	Seek service
			Power snubber resistor damaged	Seek service
			Control circuit damage	Seek service
			Input phase loss	Check R、S、T wiring
F.Ct		Current detection circuit is faulty	Wires or connectors of control board are loose	Check and re-wire
			Auxiliary power supply is damaged	Seek service
			Current detection circuit fault	Seek service
F.CPU		System disturbance	Severe disturbance from outside	Press STOP/RESET to reset or install power filter at the input side of the inverter.
			DSP control board read and write error	Press STOP/RESET to reset Seek service
F.rE1		Reserved	Reserved	Reserved
F.rE2		Reserved	Reserved	Reserved
F.CPy		Copy fault	Parameters incomplete Version of the panel is inconsistent with the main control board	Update the data and version, upload parameters first via FP.01=1, then download via FP.03=2/3
			E ² PROM damage	Seek service
F.tU		Tuning fault	Input motor parameters wrong	Re-input motor parameter according to the nameplate
			Tuning overtime	Check motor cables and limit it within 100m.