

Error Codes

The X200z series inverters will trip on over-current, over-voltage, and under-voltage to protect the inverter. The motor output turns OFF, allowing the motor to free-run to a stop. Press the Stop/Reset key to reset the inverter and clear the error.

Basic Error Codes

Error Code	Name	Probable Cause(s)
E_01	Over current event while at constant speed	<ul style="list-style-type: none"> • Inverter output was short-circuited • Motor shaft is locked
E_02	Over current event during deceleration	<ul style="list-style-type: none"> • Load is too heavy • A dual voltage motor is wired incorrectly
E_03	Over current event during acceleration	Note: The X200 will over-current trip at nominally 200% of the rated current.
E_04	Over current event for other conditions	<ul style="list-style-type: none"> • DC braking power (A_54) set too high • Current transformer / noise error
E_05	Overload protection	• Motor overload is detected by the electronic thermal function
E_07	Over voltage protection	• DC bus voltage exceeds a threshold, due to regeneration energy from the motor
E_08	EEPROM error	• Built-in EEPROM memory experienced noise, high temperature, operating switch S8 before the display goes off at power off etc.
E_09	Under voltage error	<ul style="list-style-type: none"> • DC bus voltage decreased enough to cause a control circuit fault • Instantaneous power failure occurred
E_11	CPU error	• Built-in CPU had internal error
E_12	External trip	• [EXT] input signal detected
E_13	USP (Unattended Start Protection)	• When (USP) was enabled, an error occurred when power was applied while a Run signal was present
E_14	Ground fault	• A ground fault was detected between the inverter output and the motor. This feature protects the inverter, and does not protect humans.
E_15	Input over-voltage	• Input voltage was higher than the specified value, 100 sec. after powerup
E_21	Inverter thermal trip	• Inverter internal temperature is above the threshold
E_30	Driver error	Refer to E_01~E_04
E_35	Thermistor	• Thermistor input, [5] and [L] is over the temperature threshold
E_37	Safe stop	• Safe stop function is activated.
E_60	Communications error	• Communication error on RS485 MODBUS communication
- - -	Under-voltage (brownout) with output shutoff	• Low input voltage caused the inverter to turn OFF the motor output and try to restart. If unsuccessful, a trip occurs.