

Installation Guide Controller Series E1001/E2001/E4001 V3



Products

E1001-AT(-ME) / -MT(-ME) / -DN(-ME) / -CO(-ME) E2001-AT(-ME) / -MT(-ME) / -DN(-ME) / -CO(-ME) E4001-AT(-ME) / -MT(-ME) / -DN(-ME) / -CO(-ME)

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Important Notes for E1001/E2001/E4001 Series Controllers

CAUTION!



In order to assure a safe and error free operation, and to avoid severe damage to system components, all system components must be directly attached to a single ground bus that is earth or utility grounded.



Each system component should be tied directly to the ground bus (star pattern), rather than daisy chaining from component to component. (LinMot motors are properly grounded through their power cables when connected to LinMot controllers.)



All connectors <u>must not be connected or disconnected</u> while DC voltage is present. Do not disconnect system components until all LinMot controllers LED's have turned off. (Capacitors in the power supply may not fully discharge for several minutes after input voltage has been disconnected). Failure to observe these precautions may result in severe damage to electronic components in LinMot motors and/or controllers.



<u>Do not switch Power Supply DC Voltage.</u> All power supply switching and E-Stop breaks should be done to the AC supply voltage of the power supply.



Do not connect or disconnect the motors from controllers with voltage present. Wait to connect or disconnect motors until all LinMot controllers LED's have turned off. (Capacitors may not fully discharge for several minutes after power has been turned off). Failure to observe these precautions may result in severe damage to electronic components in LinMot motors and/or controllers.

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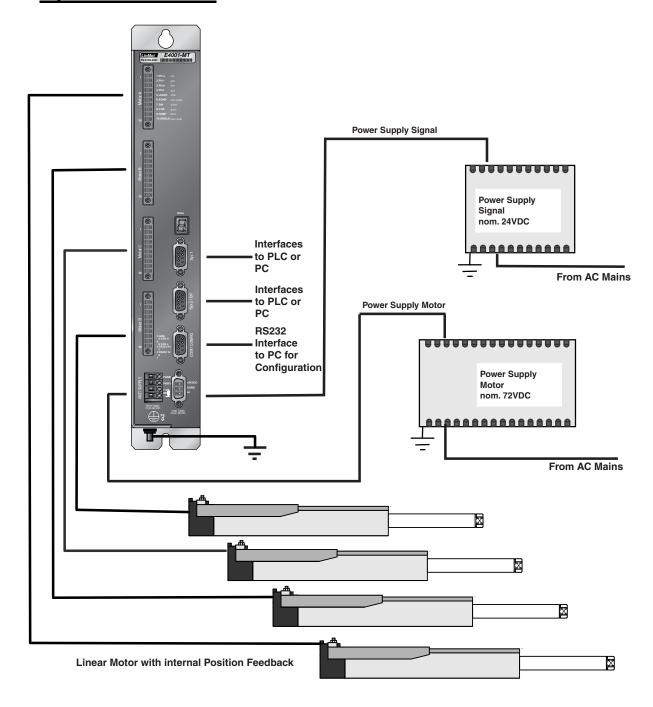
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Note

The information in this documentation reflects the stage of development at the time of press and is therefore without obligation. NTI AG reserves itself the right to make changes at any time and without notice to reflect further technical advance or product improvement.



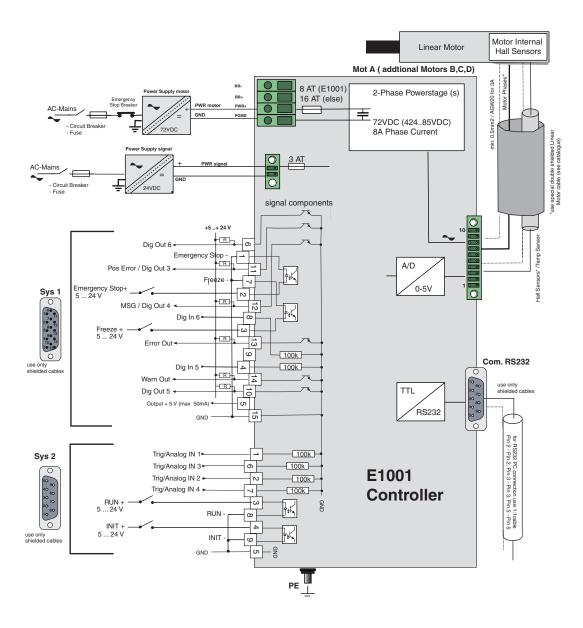
System Overview



Complete E4001 controller based system (E1001 and E2001 controllers will only drive one respectively two motors).



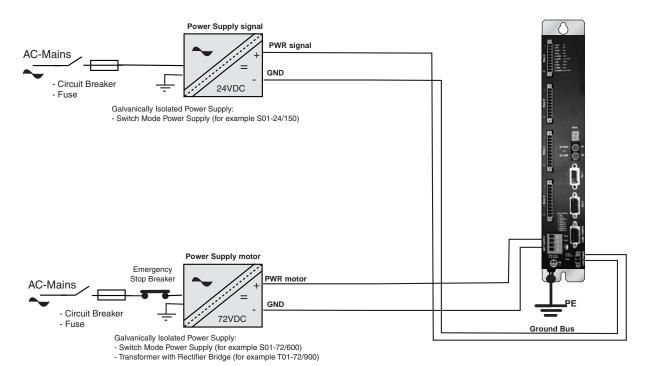
E1001 Series Function and Wiring



Typical wiring of a single axes controller. Multiple axes controller will have additional motor connectors.



Power Supply and Grounding





In order to assure a safe and error free operation, and to avoid severe damage to system components, <u>all system components must be well grounded to either a single earth or utility ground</u>. This includes both LinMot and all other control system components to the same ground bus.



Each system component should be tied directly to the ground bus (star pattern), rather than daisy chaining from component to component. (LinMot motors are properly grounded through their power cables when connected to LinMot controllers.)



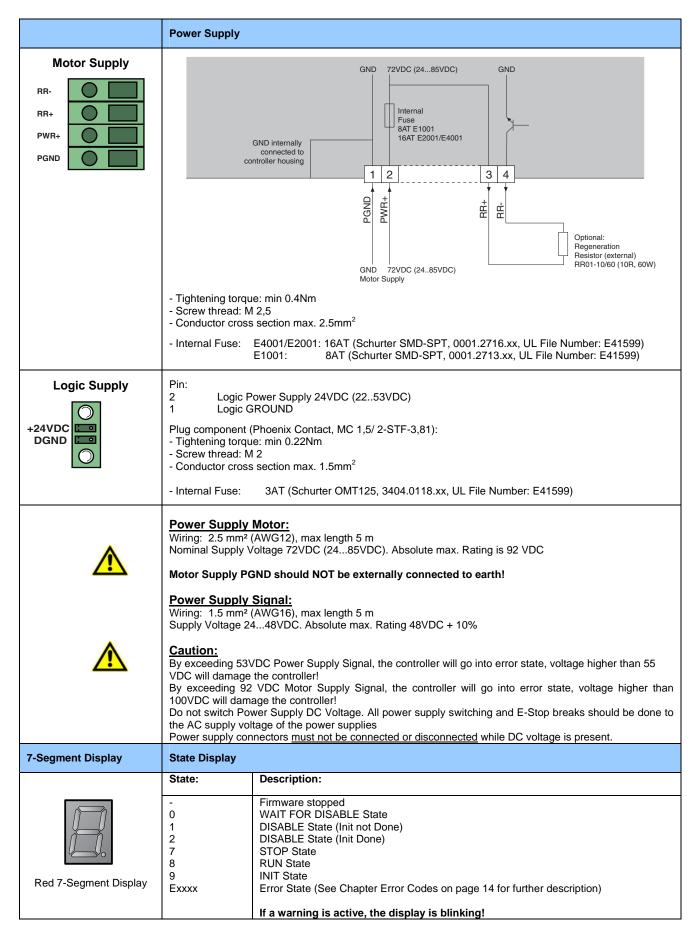
Power supply connectors must not be connected or disconnected while DC voltage is present. Do not disconnect system components until all LinMot controllers LED's have turned off. (Capacitors in the power supply may not fully discharge for several minutes after input voltage has been disconnected). Failure to observe these precautions may result in severe damage to electronic components in LinMot motors and/or controllers.



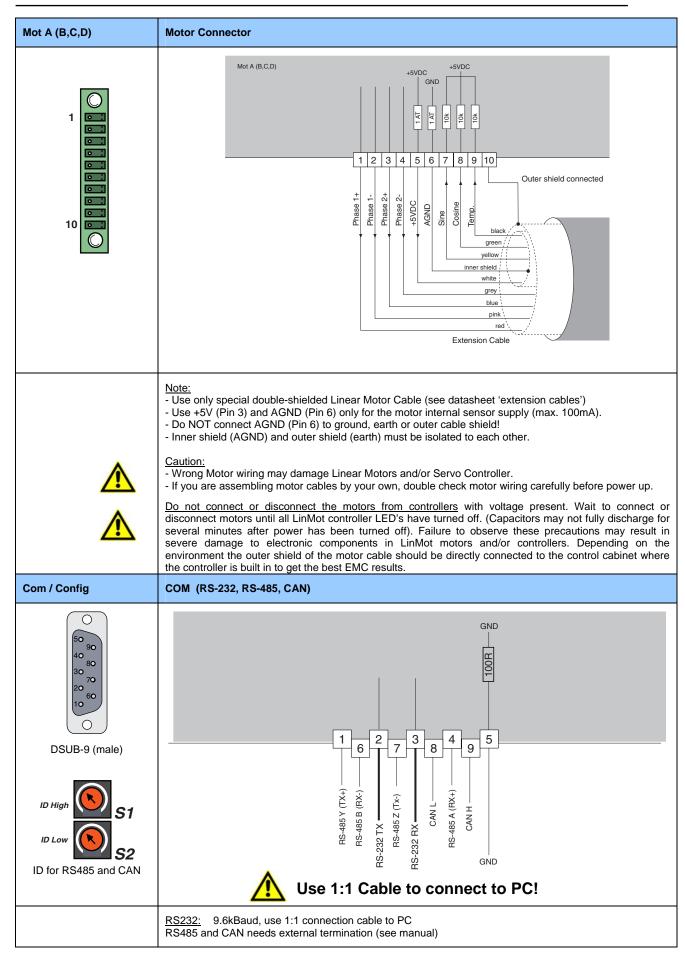
<u>Do not switch Power Supply DC Voltage.</u> All power supply switching and E-Stop breaks should be done to the AC supply voltage of the power supply. Failure to observe these precautions may result in severe damage to controller.



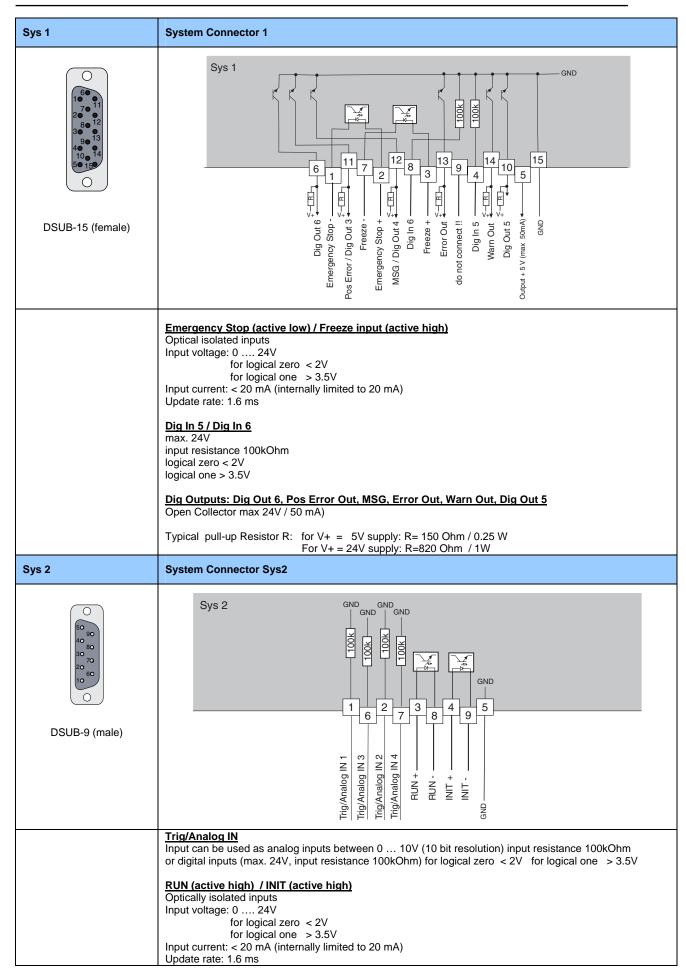
Description of the connectors / Interfaces













ME Control I/O	Master Encoder Control I/O					
	Pin			Pin		
10 144 2 0 15 3 0 16 4 0 17 6 0 18 6 0 19 7 0 20 8 0 21 19 0 22 10 0 23 11 0 24 12 0 25 13 0 0 DSUB 25 female	1 2 3 4 5 6 7 8 9 10 11 12 13	- +5V ENC OUT - DIG IN 2 DIG IN 4 DIG IN 6 DIG IN 8 - DIG OUT 1 DIG OUT 3 DIG OUT 5 DIG OUT 7 GND DIG OUT r details can be found on the Master Encode		14		NC 1 3 5 7 G IN G OUT T 2 T 4 T 6
ME Link A	Master	Encoder Link A				
		Incremental:	Step/Direction:			EIA/TIA 568A colors:
RJ45-8	1 2 3 4 5 6 7 8 case	A+ A- B+ Z+ Z- B- VCC ENC GND ENC Shield	Step+ Step- Direction+ Zero- Zero+ Direction- VCC ENC GND ENC Shield			Green/White Green Orange/White Blue Blue/White Orange Brown/White Brown
	Adapter	Cable from RJ45	nd on the Master End to DSUB-9 (which was a article number 015	as used on the		Encoder Extension Board on the
ME Link B	Master	Encoder Link B				
RJ45-8	-		Step/Direction: Step+ Step- Direction+ Zero- Zero+ Direction- VCC ENC GND ENC Shield		1 2 3 4 5 6	EIA/TIA 568A colors: Green/White Green Orange/White Blue Blue/White Orange Brown/White Brown
			to DSUB-9 (which was s article number 015		e Master E	Encoder Extension Board on the

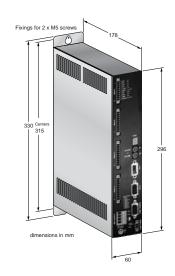


Bottom view of the master encoder connectors

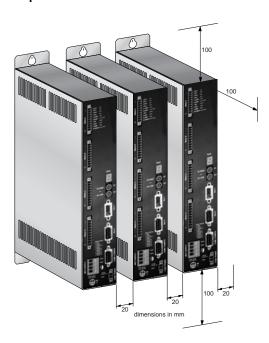


Mechanical Dimensions

Dimensions



Recommended mounting for multiple controller installations



		E1001	E2001	E4001
		Single axes controller	2 axes controller	4 axes controller
Width	mm (in)		60 (2.4)	
Height	mm (in)		330 (13)	
Height without fixings	mm (in)		296 (11.7)	
Depth	mm (in)	178 (7)		
Weight	Kg (lb)	2.5 (5.5)		
Case	IP	20		
Storage Temperature	°C	-2540		
Transport Temperature	°C	-2570		
Operating Temperature	°C	040		
Max. Case Temperature	°C	65		



Power Supply Requirement

Power Supply motor

The calculation of the needed power for the motor supply depends on the application and the used motor. The nominal supply voltage is 72 VDC. The possible range is from 24...85VDC.



ATTENTION: The motor supply can rise up to 95 VDC when braking. This means that everything connected to that power supply needs a voltage rating of 100 VDC. (Power supply itself, additional capacitors, etc...)

For the same reason, the 24VDC supply for the signal, shall not be connected together with the motor supply. If the motor is supplied with 24 VDC, this must be an additional, independent power supply.

Recommended Power supplies:

Item	Description	Art. No.
T01-72/420	72VDC, 15A peak, 420VA, 3x400VAC	0150-1966
T01-72/420-US	72VDC, 15A peak, 420VA, 3x230VAC	0150-1967
T01-72/900	72VDC, 30A peak, 900VA, 3x400VAC	0150-1842
T01-72/900-US	72VDC, 30A peak, 900VA, 3x230VAC	0150-1843
T01-72/1500	72VDC, 2x30A peak, 1500VA, 3x400VAC	0150-1844
T01-72/1500-US	72VDC, 2x30A peak, 1500VA, 3x230VAC	0150-1845

Power Supply signal

The logic supply needs a regulated power supply of a nominal voltage of 24 VDC. The voltage must be between 22 and 48DC.

Power consumption: 10W

Regeneration of Power / Regeneration Resistor

There are two possibilities handle power regeneration:

Option A: Connect an additional capacitor to the motor power supply. It is recommended to use

a capacitor >= 10'000 μF (install capacitor close to the power supply!)

Option B: Install a Regeneration Resistor to X1 (RR+ and RR-). The threshold value of the

voltage depends on the used motor voltage power supply. The max. threshold value

must not exceed 88 VDC.

Item	Description	Art. No.
Capacitor	Capacitor 10'000 μF / 100 V	0150-3075
Regeneration Resistor	RR01-10/60 (10 Ohm, 60 W)	0150-3088
Regeneration Resistor	RR01-10/150 (10 Ohm, 150 W)	0150-3090



Ordering Information

0		A N
Servo Controller	Description	Art. No.
E1001-AT	Analog Trigger Controller 1 Axis (72V/8A)	0150-2300
E1001-MT	Multi Trigger Controller 1 Axis (72V/8A)	0150-2304
E1001-DN	DeviceNet Controller 1 Axis (72V/8A)	0150-2312
E1001-CO	CanOpen Controller 1 Axis (72V/8A)	0150-2308
E1001-AT-ME	Analog Trigger Controller 1 Axis (72V/8A) with integrated ME	0150-2320
E1001-MT-ME	Multi Trigger Controller 1 Axis (72V/8A) with integrated ME	0150-2324
E1001-DN-ME	DeviceNet Controller 1 Axis (72V/8A) with integrated ME	0150-2332
E1001-CO-ME	CanOpen Controller 1 Axis (72V/8A) with integrated ME	0150-2328
E2001-AT	Analog Trigger Controller 2 Axis (72V/8A)	0150-2301
E2001-MT	Multi Trigger Controller 2 Axis (72V/8A)	0150-2305
E2001-DN	DeviceNet Controller 2 Axis (72V/8A)	0150-2313
E2001-CO	CanOpen Controller 2 Axis (72V/8A)	0150-2309
E2001-AT-ME	Analog Trigger Controller 2 Axis (72V/8A) with integrated ME	0150-2321
E2001-MT-ME	Multi Trigger Controller 2 Axis (72V/8A) with integrated ME	0150-2325
E2001-DN-ME	DeviceNet Controller 2 Axis (72V/8A) with integrated ME	0150-2333
E2001-CO-ME	CanOpen Controller 2 Axis (72V/8A) with integrated ME	0150-2329
E4001-AT	Analog Trigger Controller 4 Axis (72V/8A)	0150-2303
E4001-MT	Multi Trigger Controller 4 Axis (72V/8A)	0150-2307
E4001-DN	DeviceNet Controller 4 Axis (72V/8A)	0150-2315
E4001-CO	CanOpen Controller 4 Axis (72V/8A)	0150-2311
E4001-AT-ME	Analog Trigger Controller 4 Axis (72V/8A) with integrated ME	0150-2323
E4001-MT-ME	Multi Trigger Controller 4 Axis (72V/8A) with integrated ME	0150-2327
E4001-DN-ME	DeviceNet Controller 4 Axis (72V/8A) with integrated ME	0150-2335
E4001-CO-ME	CanOpen Controller 4 Axis (72V/8A) with integrated ME	0150-2331



Declaration of Conformity CE-Marking

Manufacturer:

NTI AG *LinMot* ®

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Switzerland

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LinMot® Controllers E1001 series Products:

Туре	ArtNo.	Туре	Art-No.	Туре	ArtNo.
E1001-AT	0150-2300	E2001-AT	0150-2301	E4001-AT	0150-2303
E1001-MT	0150-2304	E2001-MT	0150-2305	E4001-MT	0150-2307
E1001-DN	0150-2312	E2001-DN	0150-2313	E4001-DN	0150-2315
E1001-CO	0150-2308	E2001-CO	0150-2309	E4001-CO	0150-2311
E1001-AT-ME	0150-2320	E2001-AT-ME	0150-2321	E4001-AT-ME	0150-2323
E1001-MT-ME	0150-2324	E2001-MT-ME	0150-2325	E4001-MT-ME	0150-2327
E1001-DN-ME	0150-2332	E2001-DN-ME	0150-2333	E4001-DN-ME	0150-2335
E1001-CO-ME	0150-2328	E2001-CO-ME	0150-2329	E4001-CO-ME	0150-2331

The product must be mounted and used in strict accordance with the installation instruction contained within the User's Manual, a copy of which may be obtained from NTI AG.

I declare that as the authorized representative, the above information in relation to the supply/manufacture of this product is in conformity with the stated standards and other related documents in compliance with the protection requirements of the EMC Directive (89/336/EEC) and is marked in accordance with the CE Marking Directive (93/68/EEC).

Standards Complied with:

EMI	EN 55011	Class A
EN 61000-6-4		
Electromagnetic	EN 61000-4-2	4 kV / 8kV
Susceptibility EMC	EN 61000-4-4	1 kV / 2kV
EN 61000-6-2	EN 61000-4-3	10 V/m
	EN 61000-4-6	10 V
	ENV 50204	10 V/m

Company **NTI AG**

Spreitenbach, January 9, 2007

Jankon

R. Rohner / CEO NTI AG



Error codes

In the Error State the controller displays the error code by the 7-segment display:

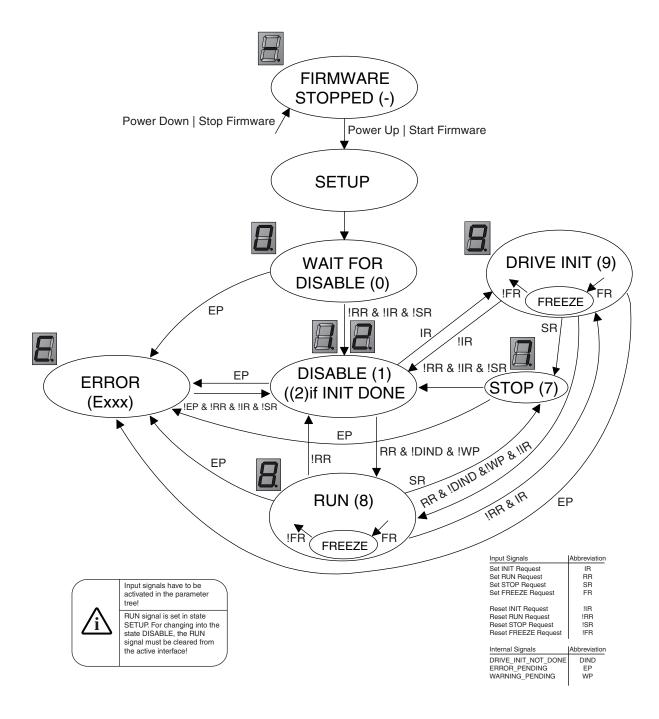
E0001 Missing or invalid papiration E0002 Missing or invalid application E0003 Controller type not supported E0004 MT command interface not available E0005 Timer watchdog error E0007 Trap class 8 error E0007 Trap class 8 error E0008 No master found for slave motor. E0009 No external sensor defined E0000 External sensor not allowed on channel D E0000 The application software needs an MT Electronics E0000 Noise Dead Band is not supported on this device revision (must be set to 0mm) E0010 DCLV Power Too Low E0011 DCLV Power Too High E0012 DCLV Signal Too Low E0013 DCLV Signal Too Low E0014 DCLV Signal Too Low E0015 HW Error Internal 12V missing E0016 Drive A Too Hot Calculated E0102 Drive A Too Hot Sensor E0103 Drive A Following Error E0104 Drive A Too Hot Sensor E0105 Drive A Too Hot Sensor E0106 Drive A Init Failed E0107 Drive A Board Over Current E0108 Drive A Board Over Current E0109 Drive A Sood Pover Current E0109 Drive A Sood Hot Sensor E0109 Drive A Sood Over Current E0100 Drive B Foo Hot Calculated E0102 Drive B Sider Missing E0103 Drive A Board Over Current E0104 Drive B Sider Missing E0105 Drive A Board Over Current E0106 Drive B Drive Too Hot Calculated E0107 Drive A Board Over Current E0108 Drive A Board Over Current E0109 Drive B Sider Missing E0200 Drive B Foo Hot Calculated E0202 Drive B Foo Hot Galculated E0202 Drive B Foo Hot Galculated E0203 Drive B Foo Hot Galculated E0204 Drive B Sider Missing E0206 Drive B Too Hot Calculated E0207 Drive B Drive Type Mismatch E0208 Drive B Courve Error E0209 Drive B Foolwing Error E0209 Drive B Foolwing Error E0200 Drive B Too Hot Calculated E0200 Drive B Drive Drive Drive Blown E0201 Drive B Drive Drive Drive Blown E0201 Drive B Drive Drive Blown E0202 Drive B Drive Drive Blown E0203 Drive C Too Hot Sensor E0204 Drive B Drive C Too Hot Sensor E0205 Drive B Drive Drive Blown E0206 Drive C Too Hot Sensor E0207 Drive B Drive Drive Mismatch E0208 Drive C Too Hot Sensor E0209 Drive Drive Drive Mismatch E0200 Drive Drive Drive Mismatch E0200 Drive Drive Drive Misma		
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E0406 Drive D Init Failed	E0403	Drive D Following Error
	E0404	Drive D Slider Missing
E0407 Drive D Drive Type Mismatch	E0406	Drive D Init Failed
11	E0407	Drive D Drive Type Mismatch



Code	Description
E0408	Drive D Curve Error
E0409	Drive D: Board Over Current
E040A	Drive D: Board Over Temperature
E040B	Drive D: AGND or 5VDC Fuse Blown
\$\$FFEC	RAM error
*** ** **	
E1001	RTS: State is too long
E1002	RTS: Controller version not supported
E1003	RTS: Wrong firmware
E1004	RTS: No script found
E1005	RTS: Illegal command
E8000	MT: Multitrigger table missing
E8001	MT: Drive A type mismatch
E8002	MT: Drive B type mismatch
E8003	MT: Drive C type mismatch
E8004	MT: Drive D type mismatch
E8100	DN: Application needs DeviceNet controller
E8101	DN: DeviceNet MACID already in use
E8104	DN: Processor speed not supported by SW
E8108	DN: Unknown command
E8110	DN: Drive not specified in command
E8111	DN: Drive is not master
E8112	DN: Drive is not in serial mode
E8118	DN: Range error
E8120	DN: Encoder does not exist
E8121	DN: Encoder is in SSI mode
E8130	DN: Curve does not exist
E8131	DN: Curve type mismatch
E8132	DN: Curve processing
E8140	DN: Unspecified CAN error
E8141	DN: CAN stuff error
E8142	DN: CAN form error
E8143	DN: CAN acknowledge error
E8144	DN: CAN bit1 error
E8145	DN: CAN bit0 error
E8146	DN: CAN CRC error
E8147	DN: CAN message lost
E8148	DN: CAN BOFF erro
E8200	CO: Application needs CANopen controller
E8201	CO: Invalid address
E8202	CO: Data out of range
E8203	CO: Drive is not in serial mode
E8210	CO: Bus error
E8218	CO: Unspecified CAN error
E8219	CO: CAN stuff error
E821A	CO: CAN form error
E821B	CO: CAN acknowledge error
E821C	CO: CAN bit1 error
E821D	CO: CAN bit0 error
E821E	CO: CAN CRC error
E8210 E8218 E8219 E821A E821B E821C E821D	CO: Bus error CO: Unspecified CAN error CO: CAN stuff error CO: CAN form error CO: CAN acknowledge error CO: CAN bit1 error CO: CAN bit0 error



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