

Drive Data Sheet & Installation Guide

Eine Deutsche Version kann unter http://www.linmot.com bezogen werden! Please visit http://www.linmot.com to check for the latest version of this document!



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Note

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Important Safety Notes for E1100 Drives

<u>CAUTION!</u>



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 (see chapter Power Supply and Grounding).



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 drives) (see chapter Power Supply and Grounding).



All connectors <u>must not be connected or disconnected</u> while DC voltage is present. Do not disconnect system components until all LinMot drive LEDs 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 drives.



<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.

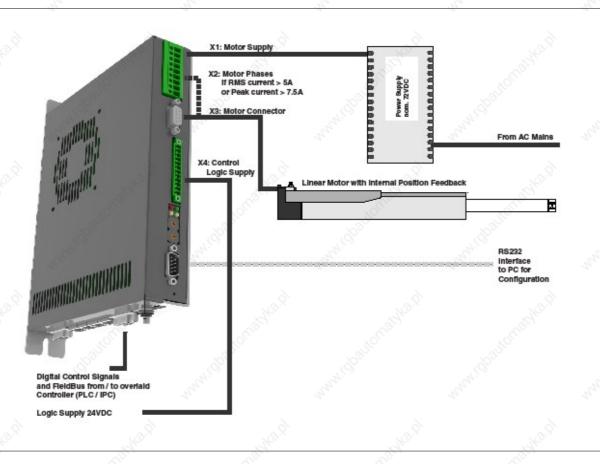


<u>Do not connect or disconnect the motors from drives</u> with voltage present. Wait to connect or disconnect motors until all LinMot drive's LEDs have turned off. (Capacitors may not fully discharge for several minutes after power has been turned off).

Failure to observe these precautions may result in severe damage to electronic components in LinMot motors and/or drives.



System Overview



Typical Servo System E1100-XX: Drive, Linear Motor and Power Supply.

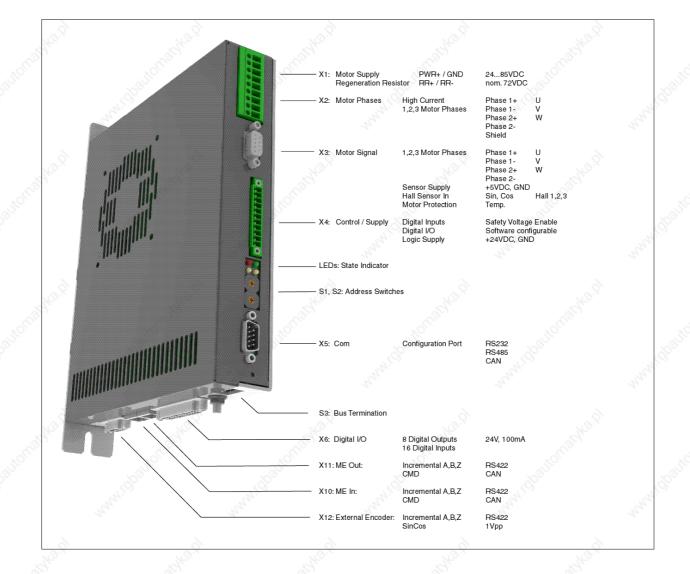
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E1100 Interfaces

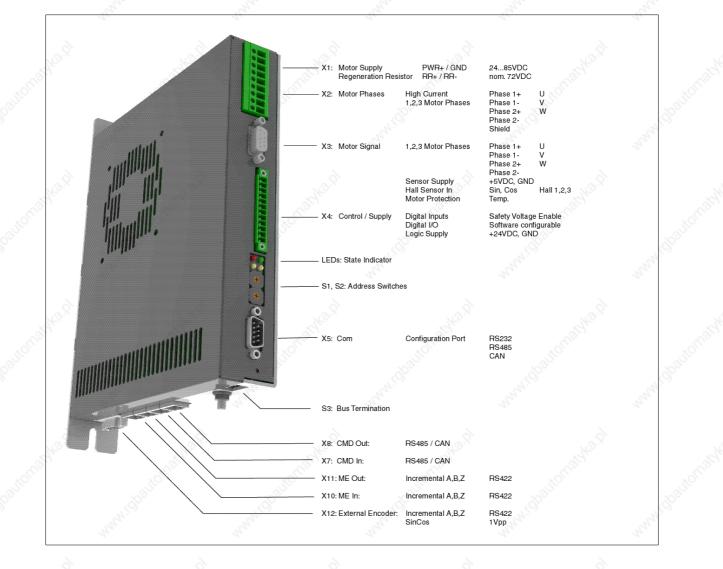
E1100-GP (-LC/HC/XC)



Installation Guide E1100 10/04/2014



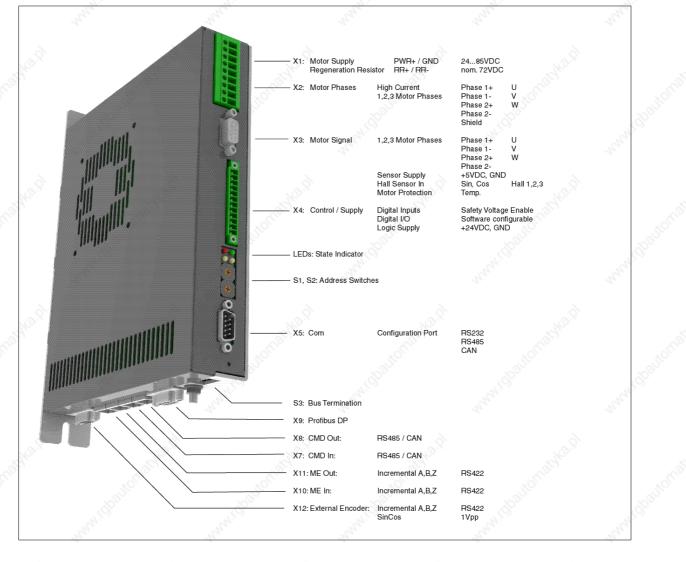
E1100-CO/DN/RS (-LC/HC/XC)



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E1130-DP (-LC/HC/XC)



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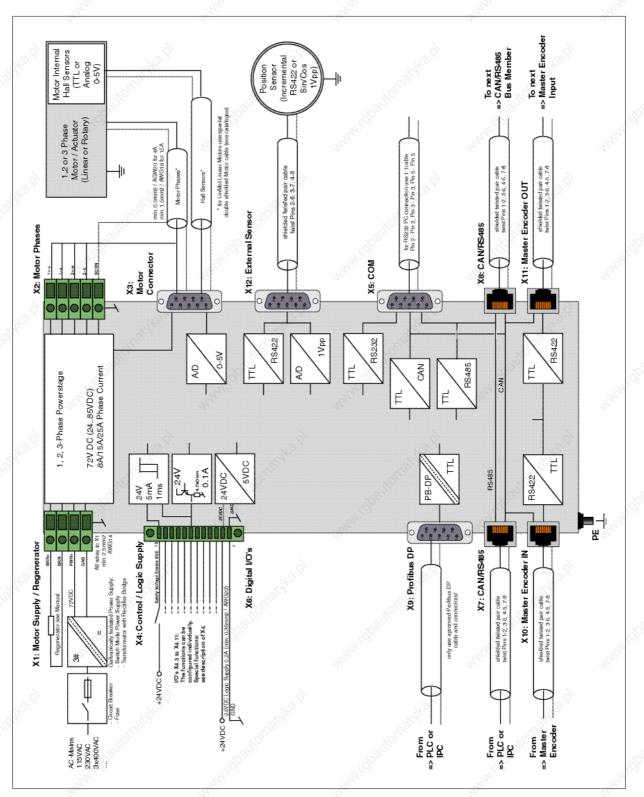
Functionality

3 ^{40,0}		tent vornati	E1100-RS	E1100-RS-HC	E1100-RS-XC	E1100-CO	E1100-CO-HC	E1100-CO-XC	E1100-DN	E1100-DN-HC	E1100-DN-XC	E1130-DP	E1130-DP-HC	E1130-DP-XC	E1100-GP	E1100-GP-HC	E1100-GP-XC
Supply	Voltage	and the second se				-	2					P					~
	Motor Supply 72	/DC (2485VDC) (3085VDC for UL)	•	•	•1	9	•	•	•	•		ð.	•	•	•	• 5	2°
	Logic Supply 24V	DC (2226VDC)	•	•	•	•	•	•	•	•27	•	•	•	•	•	-	•
Motor I	Phase Current																
de la companya de la	$8A_{peak}$ / $6A_{rms}$	- S	۲			•			े•			•			•		
N.a.	15A _{peak} / 9A _{rms}		0.	•			•			•			•			•	
- 1	25A _{peak} / 12A _{rms}				•			S.			•			•			•
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	LinMot P01-23		•	•	•		•	•	•	•	•)	•	•	•	•	•	•
	P01-37	x	•	•	•	`	•	•	•	•		ð 🖕	•	•	•	•	
	P01-48	X	•	•		•	•	•	•	• 5	5 O	•	•	•	•		•
	DC Motors		•	•	•	•	•	•	•	•	•	•	•	•	•	•	٠
	Brushless DC / E	C Motors	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Comma	and Interface	3 ²¹	22					10	2					.08			
3	Easy Step Applica	ation Layer (X4-IOs)	•	•	•	•	•		•	•	•	•	•\$	•	•	•	•
	Cmd Tab IO Inter	face (X6-IOs)											Le.		•	•	•
	RS232	up to 115.2 kBaud	•	•	•	•	S.•	•	•	•	•	۲	•	•	•	•	•
	RS485	up to 115.2 kBaud	•	•	•	ð	•	•	•	•	•.8	~•	•	•	•	•	
	CANOpen	up to 1MBaud				•	•	•	•	•	•	•	•	•	•	• 5	9.9
	DeviceNet	125, 250, 500 kBaud							•	•2	•	•	•	•	•		•
	PROFIBUS DP	up to 12 MBaud										•	•	•			
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	Command Table	with up to 255 entries	•	•	•		S.•	•	•	•	•	.•`	•	•	•	•	•
Externa	al Position Sensor	S.				S.					. 8	8					0
	Incremental	RS422 up to 2 MHz	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Sin/Cos	1Vpp up to 10 kHz	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Synchr	ronisation																
2		n/Out RS422 up to 2 MHz	•	•	•	•	•	•	्रे•	•	•	•	•	•	•	•	•
Config		to the	S.					1to						Ker			
	RS232 Configura		•	•	•	•	•	•	•	•	•	•		•	•	•	•
	CAN Multi Axes C	Configuration	•	•	•	•	÷.	•	•	•	•	•)°•	•	•	•	•

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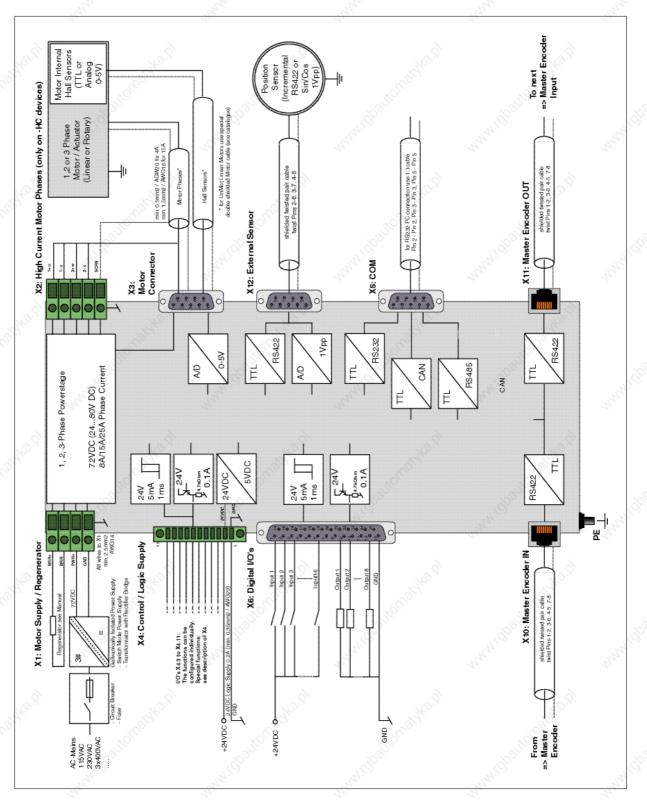


E1130-DP(-HC, -XC) Functions and Wiring





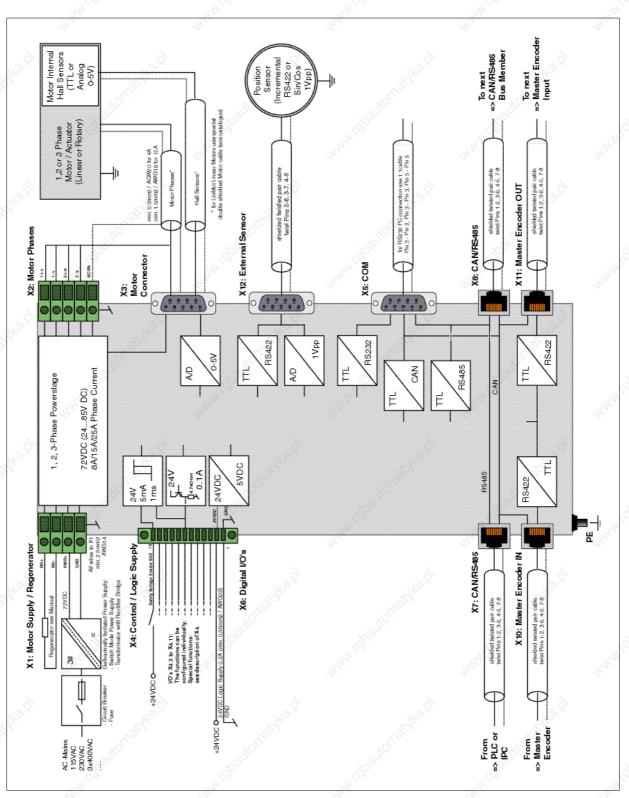
E1100-GP (-HC, -XC) Functions and Wiring



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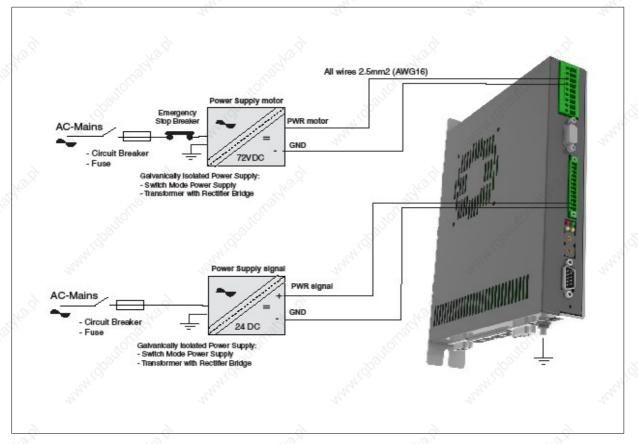


E1100-CO (-HC, -XC), -DN (-HC, -XC), -RS (-HC, -XC) Functions and Wiring





Power Supply and Grounding



*Inside of the E1100 drive the *PWR motor GND* and *PWR signal GND* is connected together and to the GND of the drive housing. It is recommended that the *PWR motor GND* is NOT grounded at another place than inside of the drive to reduce circular currents.



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</u> <u>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 <u>(star pattern)</u>, rather than daisy chaining from component to component. (LinMot motors are properly grounded through their power cables when connected to LinMot drives.)



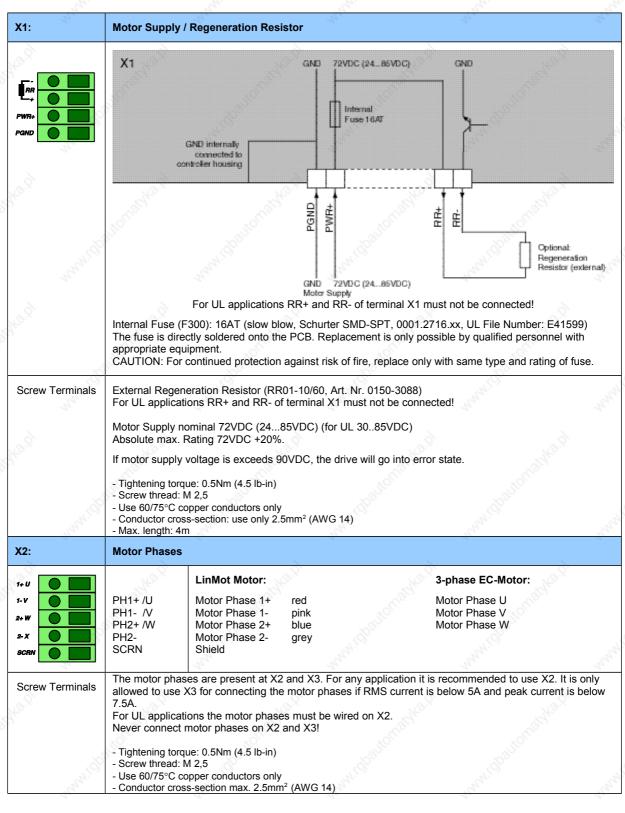
Power supply connectors must not be connected or disconnected while DC voltage is present. Do not disconnect system components until all LinMot drive LEDs have turned off. (Capacitors in the power supply may not fully discharge for several minutes after input voltage has been disconnected). Failure to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



Do not switch Power Supply DC Voltage. 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 drive.



Description of the connectors / Interfaces



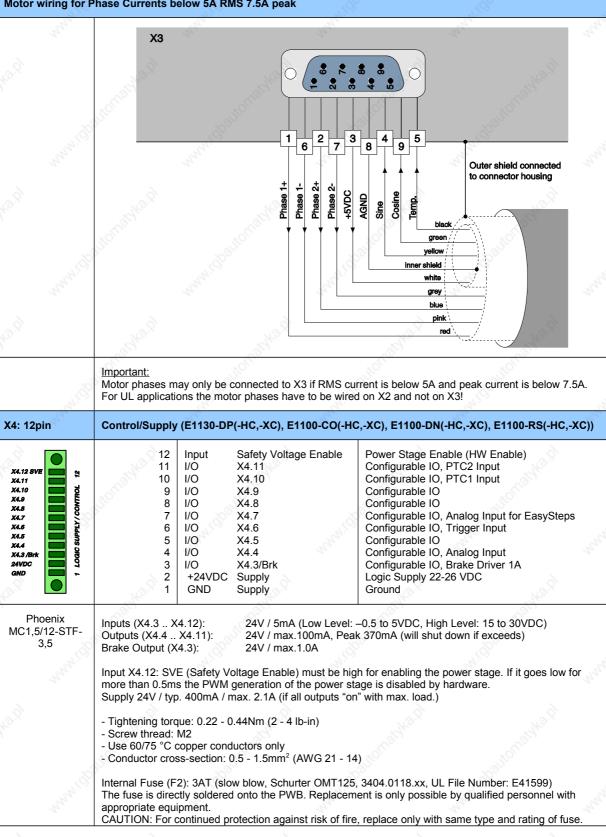


		LinMot Motor:	And Contraction of the Contracti	3-phase EC-Motor:	34
	1 2 3 4 5 6 7 8 9 case	Motor Phase 1+ Motor Phase 2+ +5VDC Sensor Sine Temp. In Motor Phase 1- Motor Phase 2- AGND Sensor Cosine Shield		+5VDC (Hall Supply) Hall 1 Hall 3 AGND (Hall Supply) Hall 2	
	For UL applicat	ions the motor phases m	ust be wired on X2 and not	on X3!	
DSUB-9 (f)	Caution: Do NOT connec	ct AGND (X3.8) to ground	or motor internal Hall Sense d or earth! g the motor phases if RMS	or supply (max. 100mA). current is below 5A and peak	current
lotor Wiring for	Phase Currents a	above 5A RMS 7.5A pea	k (recommended genera	wiring)	
	X2 SHIELD	HR- HR- HH- HH- HH- HH- HH- HH- HH- HH-) 5	-34-4
	Outer shield		Caution: Do not connect (3.1/2/6/7 OC PUE) (3.1/2/6/7 OC PUE) (3.1/2/6/7 OC PUE) (3.1/2/6/7 OC PUE)	black green //	400
	automatika.el			yellow r shield white red pink blue grey	
		N.	N.	N.	22

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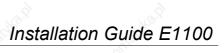






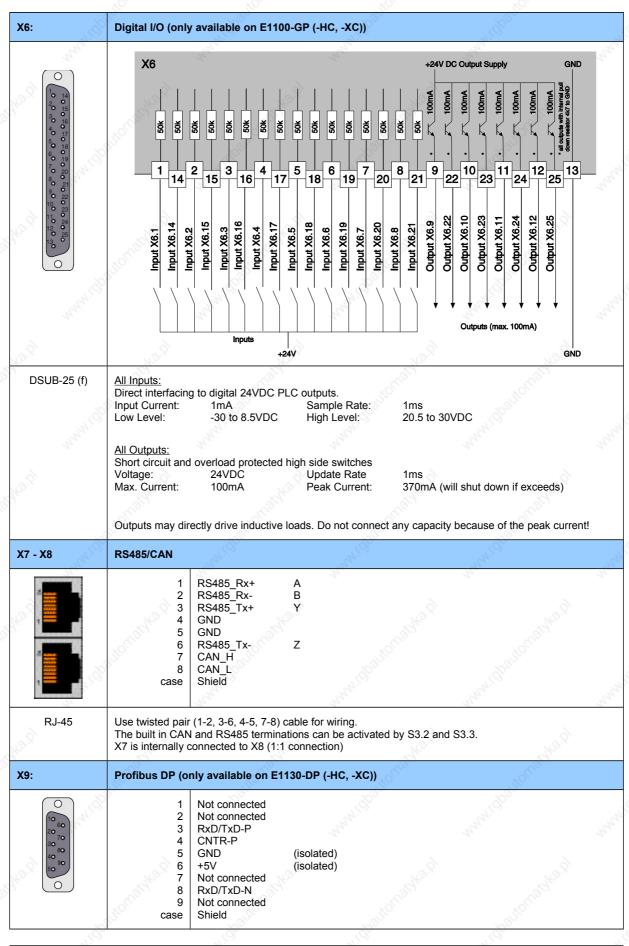
	10		10	. 19 ⁵		19 July 19 Jul
X4: 11pin	Control /	Supply (E1100-	GP(-HC, -XC))	1. BORT		S ^E
X4.11 X4.10 X4.9 X4.8 X4.7 X4.8 X4.7 X4.8 X4.7 X4.6 X4.5 X4.4 X4.5 X4.4 X4.7 X4.6 X4.7 X4.6 X4.7 X4.6 X4.9 X4.9 X4.9 X4.9 X4.9 X4.9 X4.9 X4.9	Satonatyka	11 I/O 10 I/O 9 I/O 8 I/O 7 I/O 6 I/O 5 I/O 4 I/O 3 I/O 2 +24VDO 1 GND	X4.11 X4.10 X4.9 X4.8 X4.7 X4.6 X4.7 X4.6 X4.5 X4.4 X4.3/Brk Supply Supply	Conf Conf Conf Conf Conf Conf Conf Conf	igurable IO, PTC2 igurable IO, PTC1 igurable IO igurable IO igurable IO igurable IO, Trigge igurable IO, Analog igurable IO, Brake c Supply 22-26 VD0 nd	nput r J Input Driver 1A
Phoenix MC1,5/11-STF- 3,5	Outputs () Brake Out	I.3 X4.11): X4.4 X4.11): tput (X4.3): ₩ / typ. 400mA /		0mA, Peak 370m 0A	5VDC, High Level A (will shut down i max. load.)	
	- Screw th - Use 60/7 - Conduct Internal F	nread: M2 75 °C copper cor or cross-section: use (F2): 3AT (sl	0.5 - 1.5mm² (AV	/G 21 - 14) · OMT125, 3404.	0118.xx, UL File N	
£3.9.	appropria	te equipment.			No	alified personnel with ype and rating of fuse.
LEDs	State Dis	play				
	Green Yellow Yellow Red		ply OK I / Error Code Low r Code High Nibbl		and and a second second	19 19 19
S1, S2:	Baud Rat	e / Address Sel	ectors		Stor.	AN CONTRACT
uufur S1 May S2	S1 S2	parameter sett	(C S1 and S2 define t	g description is o	nly valid for default	g on the interface and configurations, otherwise
	ALION RAY NO	S1: Baud Rate S1 Pos 0: 1: 2: 3: 4: 5:	selector for CO, CO: undefined 125 kBit/s 250 kBit/s 500 kBit/s 1 MBit/s undefined	DN: undefined 125 kBit/s 250 kBit/s 500 kBit/s undefined	RS: undefined 4800 Bit/s 9600 Bit/s 19200 Bit/s 38400 Bit/s	
	Sutomatika	6: 7F: S2: MACID for Position value In case of Prof	undefined undefined CO, DN, RS inter is equal to MACIE) (e.g. position 7 nes S1 and S2 de	→ MACID 0x07h)	ress, whereas S1 is the
Annull Barris	1. Alexandre	NOTE: The ba In case of CO according to th	or DN interfaces, ne interface setting	D will only be set the OS (operating is, but only if the	g system) sets up t interface is activate	tch S3.4 is set to "on". he CAN bus baud rate ed (S3.4). Otherwise the from both switches S1







S3:	Bus Terr	nination			and the second	S.	
	S3	Switch 3: Terr Switch 2: Terr Switch 1: RS2	mination CAN or mination RS485	on/off / RS485 "on") Sele) ct serial RS232 or F	2S485	
ANNAL OF			us functionality f f" the field bus is		to be set to position	י "on"!	the second
X5:	СОМ	5	6		à	, à	
0 50 90 40 80 30 70 20 60 10	1 2 3 4 5 6 7 8 9 case	RS485_Tx+ RS232_Tx RS232_Rx RS485_Rx+ GND RS485_Rx- RS485_Tx- CAN_L CAN_H Shield	Y A B Z	www.chailor	asheed www.	abautomatika d	the second se
DSUB-9 (m)	<u>RS232:</u>				ble to PC with only p tNo. 0150-3307). (and and



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_inMot[®]



DSUB-9 (f)	Max. Baud rate:	12Mbaud	1. CONT	NI GOOL	
X10 / X11	Master Encode	r IN (X10) / Ma	ster Encoder OUT (X11)	44	444
RJ-45	Master Encoder Master Encoder CAN internally co	Inputs: [Outputs: / onnected to X7 s on X10/X11 a	Amplified RS422 differential , X8 re only available on GP driv	EIA/TIA 568A colors: Green/White Green Orange/White Blue Blue/White Orange Brown/White Brown ut Frequency 2MHz, 240ns edge sep signals from Master Encoder IN (X10 res. With the –DP, -RS, -DN and CO of))
X12 :	All devices, whic	20	d to X10/X11 must be refer	enced to the same ground.	
	1 2 3 4 5 6 7 8 9 case	Incremental: +5V DC A- B- Z- GND A+ B+ Z+ Enc. Alarm Shield	Sin/Cos: +5V DC SIN- COS- ZERO- GND SIN+ COS+ ZERO+ Enc. Alarm Shield	www.chastonayka.d	1999 1997 1997 1997 1997
DSUB-9 (f)	Max. Input Freque Sensor Supply (In Encoder Inputs: - Incremental: - Sin/Cos: Enc. Alarm In:		2MHz (Incremental RS422), I0kHz (Analog 1Vpp), 10Bit	240ns edge separation AD converted	h Arthough



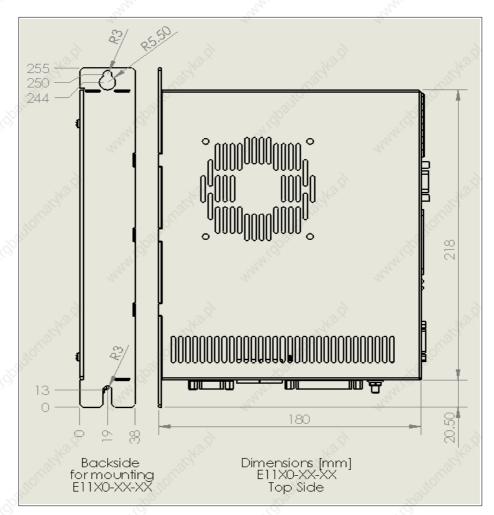
Error Codes

	Error 24V OK Description			
ERROR	WARN	EN	12 12 12 12 12 12 12 12 12 12 12 12 12 1	, Ì
OFF	Warning	Operation Enabled	Normal Operation. Warnings and Operation Enable displayed	d are
On	● ~ 2Hz 015 x Error Code High Nibble	● ~ 2Hz 015 x Error Code Low Nibble	Error: The Error Code is shown by a blink code with and "EN". The Error Byte is divided into Low and Hi "WARN" and "EN" are blinking together. The error of acknowledged. (ex.: WARN blinks 3x, EN blinks 2x; Error Code = 3	gh Nibble. an be
● ~ 2Hz	● ~ 2Hz 015 x Error Code High Nibble	● ~ 2Hz 015 x Error Code Low Nibble	Fatal Error: The Error Code is shown by a blink cod "WARN" and "EN". The Error Byte is divided into Lo Nibble. "WARN" and "EN" are blinking together. Fat can only be acknowledged by a reset or power cycl (ex.: WARN blinks 3x, EN blinks 2x; Error Code = 3	w and High al Errors e
• ~ 4Hz	● ~ 2Hz 015 x Error Code High Nibble	● ~ 2Hz 015 x Error Code Low Nibble	System Error. Please reinstall firmware or contact s	upport.
● ~ 0.5Hz	● ~ 0.5Hz	On	Signal Supply 24V too low: The error and warn LED alternating if the signal supply +24V (X4.2) is less the	

The meaning of the Error Codes can be found in the Usermanual_MotionCtrl_Software_E1100 and the user manual of the loaded interface software. These documents are provided together with LinMot-Talk configuration software and can be downloaded from WWW.linmot.com.



Physical Dimension



E110	0 Single axe	es drive
Width	mm (in)	40 (1.6)
Height	mm (in)	250 (9.9)
Height without fixings	mm (in)	218 (8.6)
Depth	mm (in)	180 (7.1)
Weight	Kg (lb)	1.5 (3.3)
Mounting Screws Mounting Distance	mm (in)	2 x M5 237 (9.33)
Case	IP	20
Storage Temperature	°C	-2540
Transport Temperature	°C	-2570
Operating Temperature	°C	040 at rated data (UL) 4050 with power derating
Relative humidity	All A	95% (non-condensing)
Max. Case Temperature	°C	65
Max. Power Dissipation	W	30
Distance between Drives	mm (in)	20 (0.8) left/right 50 (2) top/bottom



Power Supply Requirement

Motor Power Supply

The calculation of the needed power for the Motor supply is depending on the application and the used motor. The nominal supply voltage is 72 VDC. The possible range is from 24 to 85VDC, for UL from 30 to 85 VDC.



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. (Additional capacitors, etc...). Due to high braking voltage and sudden load variations of linear motor applications, **only specially designed power supplies can be used**.

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
S01-72/1000	72VDC, 27A peak, 1000VA, 3x340-550VAC	0150-1872
S01-72/500	72VDC, 10A peak, 500VA, 1x120/230VAC	0150-1874

Signal Power Supply

The logic supply needs a regulated power supply of a nominal voltage of 24 VDC. The voltage must be between 22 and 26 VDC. Current consumption: min. 200mA (no load on the outputs)

min. 200mA(no load on the outputs)typ. 1.1A(all 10 outputs "on" with 100mA load and /Break with no load)max. 2.1A(all 10 outputs "on" with 100mA load and /Break with 1A load)

Regeneration of Power / Regeneration Resistor

There are two possibilities to deal with power regeneration:

Option A: Connect an additional capacitor to the motor power supply. It is recommended to use a capacitor >= $10'000 \ \mu\text{F}$ (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

For UL applications, use option A.

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Ordering Information

Drive	Description	Art. No.
E1130-DP	Profibus Servo Drive, 72VDC/8A	0150-1667
E1130-DP-HC	Profibus Servo Drive, 72VDC/15A	0150-1668
E1130-DP-XC	Profibus Servo Drive, 72VDC/25A	0150-1861
E1100-RS	RS232/485 Drive, 72VDC/8A	0150-1677
E1100-RS-HC	RS232/485 Drive, 72VDC/15A	0150-1678
E1100-RS-XC	RS232/485 Drive, 72VDC/25A	0150-1862
E1100-CO	CANopen Drive, 72VDC/8A	0150-1681
E1100-CO-HC	CANopen Drive, 72VDC/15A	0150-1682
E1100-CO-XC	CANopen Drive, 72VDC/25A	0150-1683
E1100-DN	DeviceNet Drive, 72VDC/8A	0150-1679
E1100-DN-HC	DeviceNet Drive, 72VDC/15A	0150-1680
E1100-DN-XC	DeviceNet Drive, 72VDC/25A	0150-1863
E1100-GP	General Purpose, 72VDC/8A	0150-1665
E1100-GP-HC	General Purpose, 72VDC/15A	0150-1666
E1100-GP-XC	General Purpose, 72VDC/25A	0150-1864

International Certifications

	Certifications
USA and Canada	All products marked with this symbol are tested and listed by Underwriters Laboratories and are checked quarterly by an UL inspector. This mark is valid for the USA and Canada and eases certification of your machines and systems in these areas. The E1100 series drives are listed under UL file number E316095.
Europe	See chapter "declaration of conformity CE-Marking".
して	Ballo Ballo



Safety notes for the installation according to UL

Markings:

- Use 60/75 °C or 75 °C copper wire only.
- Maximum ambient temperature 40°C.
- Suitable for use on a circuit capable of delivering not more than 5kA RMS symmetrical amperes, 85VDC Maximum.
- Motor over temperature sensing must be provided externally in the end-use

Terminal tightening torque:

- X1, X2: 0.5Nm (4.5 lb-in), Screw thread: M2.5
- X4: 0.22 0.44Nm (2 4 lb-in), Screw thread: M2

Wiring diagram conductor cross-section:

- X1: 2.5mm² (AWG 14)
- X4: 0.5 1.5mm² (AWG 21 14)

Ground terminal:

• Threaded Grounding Bolt: M5 (located on the lower side of the housing). Marked with 🕀

Fuse Replacement:

CAUTION: For continued protection against risk of fire, replace only with same type and rating of fuse!

The fuses are directly soldered onto the PWB. Replacement is only possible by qualified personnel with appropriate equipment.

- Internal Fuse F2: 3AT (slow blow, Schurter OMT125, 3404.0118.xx, UL File Number: E41599)
- Internal Fuse F300: 16AT (slow blow, Schurter SMD-SPT, 0001.2716.xx, UL File Number: E41599)

Branch circuit protection of the motor power supply must be provided externally with a UL listed JDDZ RK-5 class fuse (Fusetron FRN-R-20, 20A, 125VDC, UL File E4273).

Motor Phase Wiring:

For UL applications the motor phases have to be wired on X2 and not on X3!

Regeneration Resistor:

For UL applications pins RR+ and RR- of terminal X1 must not be connected! In case of over voltage see chapter "Regeneration of Power / Regeneration Resistor" Option A.

Drive Classification Accordance with the new Machinery Directive EN ISO 13849-1

The safety function SVE ("Safety Voltage Enable") on the LinMot drive series E1100 (on X4.12, not present on GP(-HC, -XC) drives), which is to provide the safe stop, fulfills the following criteria of the new machinery directive EN ISO 13849-1:

Category Performance Level Diagnostic Coverage Mean time to hazardous failure of one channel cat = 3 PL = d CD = medium MTTFd = 49.8 Years



Declaration of Conformity CE-Marking

Manufacturer:

NTI AG *LinMot* [®] Haerdlistrasse 15 8957 Spreitenbach Switzerland Tel.: +41 (0)56 419 91 91 Fax: +41 (0)56 419 91 92

Products:

LinMot[®] Drives

Туре	ArtNo.	Туре	Art-No.	Туре	ArtNo.
E1130-DP	0150-1667	E1100-DN	0150-1679	3	and the second s
E1130-DP-HC	0150-1668	E1100-DN-HC	0150-1680		10
E1100-GP	0150-1665	E1130-DP-XC	0150-1861	6,	0
E1100-GP-HC	0150-1666	E1100-CO-XC	0150-1683	and and a second se	
E1100-RS	0150-1677	E1100-DN-XC	0150-1863		
E1100-RS-HC	0150-1678	E1100-RS-XC	0150-1862	2	2
E1100-CO	0150-1681	E1100-GP-XC	0150-1864	34	and the second s
E1100-CO-HC	0150-1682	. tol	. 10°		10

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 Electromagnetic Compatibility (EMC) Directive 2004/108/EC.

Standards Complied with:

EN 61000-6-2	444	Compliance Criteria	Immunity for industrial environment
6	EN 61000-4-2	В	Electrostatic discharge immunity (ESD)
Ye.	EN 61000-4-3	A	Radiated electromagnetic field immunity
	EN 61000-4-4	B	Fast transients / burst immunity (EFT)
	EN 61000-4-5	В	Slow transients immunity (Surges)
Ach!	EN 61000-4-6	A	Conducted radio frequency immunity
EN 61000-6-4	27	Class	Emission for industrial environment
6	EN 55022	A	Radiated Emission

Company NTI AG Spreitenbach, October 13, 2010

Dr. Ronald Rohner / CEO NTI AG



Contact Addresses

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