



## **B1100 Drive** Installation Guide

0185-1061-E\_3V26\_IG\_B1100 / December 2022



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#### **1** Important Safety Notes for B1100 Series Drives

## 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 drives).



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



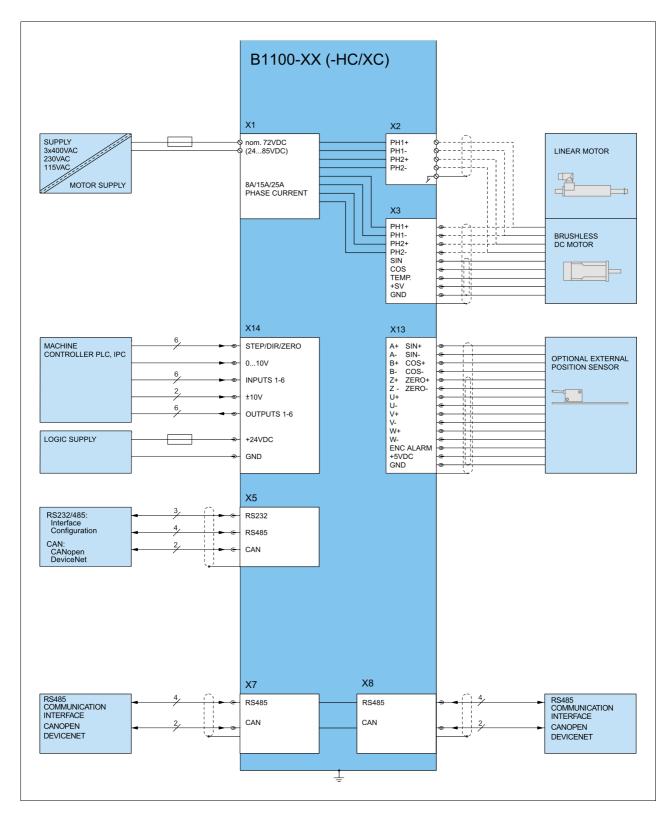
<u>Do not switch Power Supply DC Voltage.</u> All power supply switching and E-Stop breaks should be done to the AC supply voltage of the power supply.



Do not connect or disconnect the motors from drives while voltage is applied. Wait to connect or disconnect motors until all LinMot drives 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.



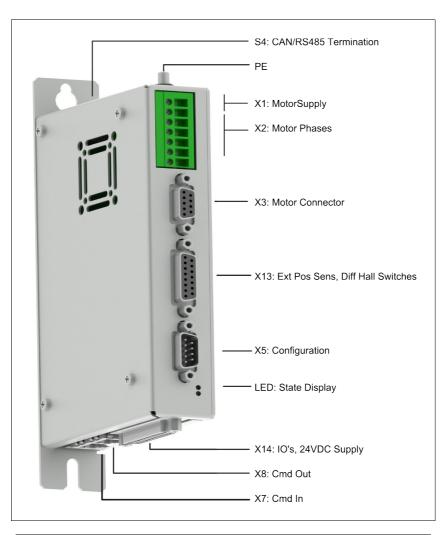
#### 2 System Overview



Typical servo system B1100-XX-YY: Servo drive, motor and power supply.



## 3 B1100 Interfaces



		B1100-PP-XX	B1100-VF-XX	B1100-GP-XX
Conne		_		
X1	Motor Supply	•	•	•
X2	Motor Phases (Screw Terminals)	•	•	•
X3	Motor / Motor Signals	•	•	•
X5	Com / Config RS232, RS485, CAN	•	•	•
X7	RS485 / CAN In	•	•	•
X8	RS485 / CAN Out	•	•	•
X13	External/Simulated Position Encoder Diff Hall Switches	•	•	•
X14	6 Digital Inputs 6 Digital Outputs Analog In 010V Analog In –10V +10V Diff Step Dir zero 24V Logic Supply	•	•	•
LED	State Indicator	•	•	•
S4	Bus Termination	•	•	•

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#### **4** Functionality

	B1100-PP	B1100-PP-HC	B1100-PP-XC	B1100-VF	B1100-VF-HC	B1100-VF-XC	B1100-GP	В1100-GР-НС	B1100-GP-XC
Supply Voltage									
Motor Supply 72VDC (2485VDC)	•	•	•	•	•	•	•	•	•
Logic Supply 24VDC (2226VDC)	•	•	•	•	•	•	•	•	•
Motor Phase Current									
8A <sub>peak</sub> / 6A <sub>ms</sub> (0599Hz)	•			•			•		
15A <sub>peak</sub> / 9A <sub>rms</sub> (0599Hz)		•			•			•	
25A <sub>peak</sub> / 12A <sub>rms</sub> (0599Hz)			•			•			•
Controllable Motors									
LinMot P01-23x	•	•	•	•	•	•	•	•	•
P01-37x	•	•	•	•	•	•	•	•	•
P01-48x	•	•	•	•	•	•	•	•	•
DC Motors	•	•	•	•	•	•	•	•	•
Brushless DC / EC Motors	•	•	•	•	•	•	•	•	•
Command Interface									
Easy Steps Max. 6 Commands	•	•	•	•	•	•	•	•	•
+/-10V Current Command Interface				•	•	•	•	•	•
Step Direction Indexer Interface				•	•	•	•	•	•
Cmd Tab IO Interface (X14-IOs) (with EasySteps)				•	•	•	•	•	•
RS232 up to 115.2 kBaud							•	•	•
RS485 up to 115.2 kBaud							•	•	•
CANOpen up to 1MBaud							•	•	•
DeviceNet 125, 250, 500 kBaud							•	•	•
External Position Sensor									
Incremental RS422 up to 2 MHz	•	•	•	•	•	•	•	•	•
Position Indexer Input									
Step Dir Zero/ ABZ RS422 up to 2 MHz				•	•	•	•	•	•
Position Encoder Simulation									
AB RS422 up to 2.5 MHz				•	•	•	•	•	•
Configuration									
RS232 Configuration	•	•	•	•	•	•	•	•	•
CAN Multi Axes Configuration	•	•	•	•	•	•	•	•	•

#### 5 Software

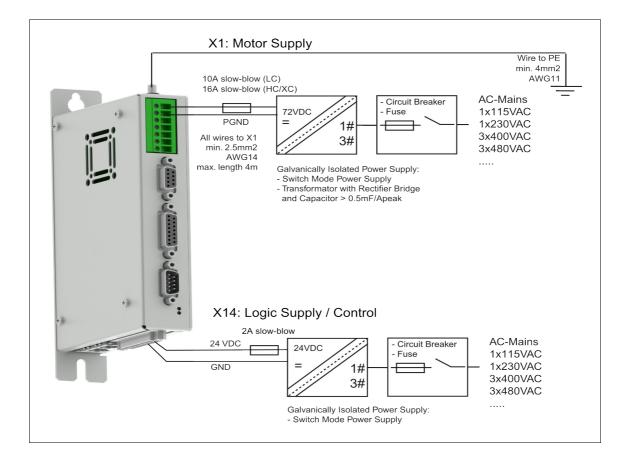
The configuration software LinMot-Talk is free of charge and can be downloaded from the LinMot homepage.

For fast results see also the quick start guides and configurations for the B1100-PP and B1100-VF drives:

- QuickStartGuide\_B1100-PP.pdf
- QuickStartGuide\_B1100-VF.pdf

This quick start guides are distributed with the LinMot-Talk software.

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#### 6 Power Supply and Grounding



In order to assure a safe and error free operation and to avoid severe damage to system components, all system components\* must be well grounded to either a single earth or utility ground. 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</u> <u>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.

\* Inside of the B1100 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 avoid circular currents.

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#### 7 Description of the connectors / Interfaces

7.1 PI	Ξ
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PE	Protective Earth
PE	<ul> <li>Use min. 4mm<sup>2</sup> (AWG11)</li> <li>Tightening torque: 2Nm (18lbin)</li> </ul>

### 7.2 X1

X1	Motor Supply
PWR+	M5 PE Screw
PGND	10A slow-blow (LC)     X1     GND internally connected to controller housing which is connected to PE       PWR+     2485VDC     GND
Screw Terminals	Motor Supply: 72VDC nominal, 2485VDC Absolute max. Rating: 72VDC +20%. External Fuse: 10A slow-blow for LC (8Apeak), 16A slow-blow for HC and XC (15A/25Apeak) servos. If motor supply voltage exceeds 90VDC, the drive will go into error state.
	<ul> <li>Tightening Torque: min 0.4Nm (3.5 lbin)</li> <li>Screw Thread: M 2,5</li> <li>Use 60/75°C copper conductors only</li> <li>Conductor Cross-Section 2.5mm<sup>2</sup> (AWG14) max Length 4m</li> </ul>

#### 7.3 X2

X2	Motor Phases			
1+ U 1- V 2+ W 2- X SCRN	PH1+ /U PH1- /V PH2+ /W PH2- SCRN	Motor Phase 1- p Motor Phase 2+ b	ed bink blue grey	<b>3-phase EC-Motor:</b> Motor Phase U Motor Phase V Motor Phase W
Screw Terminals		s if RMS current is belo phases on X2 and X3! 0.4Nm (3.5 lbin) c. 2.5mm <sup>2.</sup> (AWG14), Le	ow 2A and peak current is be	It is only allowed to use X3 for slow 4A.

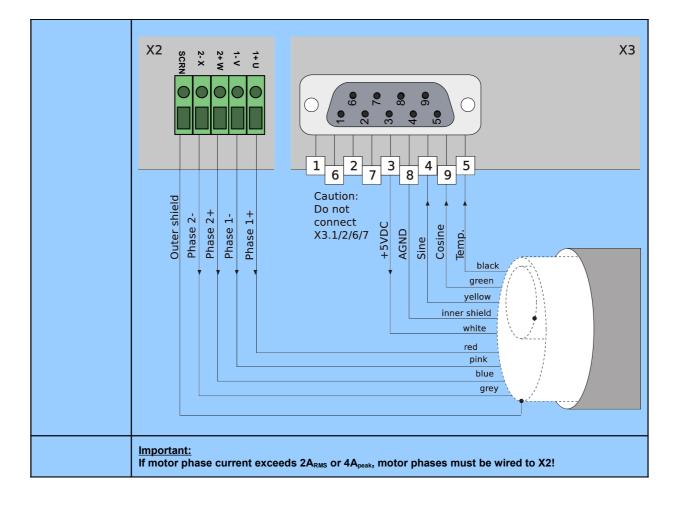
## 7.4 X3

X3	Motor		
	1 2 3 4 5 6 7 8 9 case	LinMot Motor: Motor Phase 1+ Motor Phase 2+ +5VDC Sensor Sine Temp. In Motor Phase 1- Motor Phase 2- AGND Sensor Cosine Shield	<b>3-phase EC-Motor:</b> +5VDC (Hall Supply) Hall 1 Hall 3 AGND (Hall Supply) Hall 2
DSUB-9 (f)	30m. Caution: Do NOT connect It is only allowed below 4A.	and AGND (X3.8) only for motor internal hall s AGND (X3.8) to ground or earth! to use X3 for connecting the motor phases if ove 2A RMS or 4A peak (recommended ge	RMS current is below 2A and peak current



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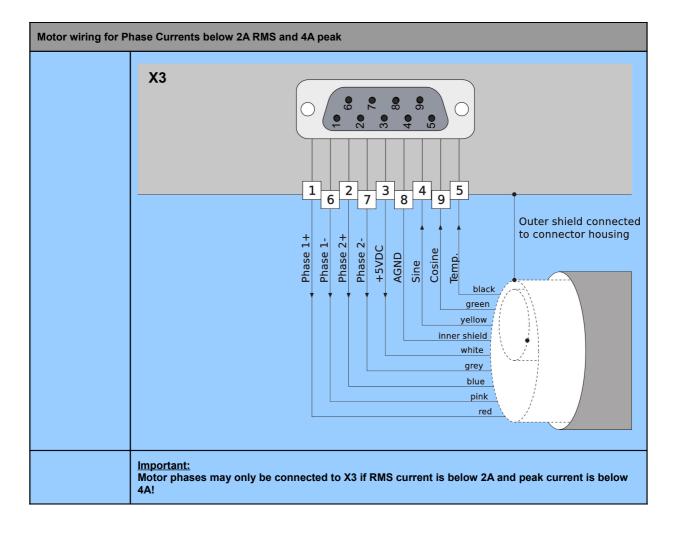
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#### 7.5 X5

X5	COM / C	onfig	
0 50 40 80 30 70 20 60 10	1 2 3 4 5 6 7 8 9 case	RS485_Tx+ Y RS232_Tx RS232_Rx RS485_Rx+ A GND RS485_Rx- B RS485_Tx- Z CAN_L CAN_H Shield	X5 RS485_Rx+ CAN_L CAN_L S4.2 CAN_L S4.3 CAN_H S4.2 CAN_H S4.2 CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H CAN_H
DSUB-9 (m)	<u>RS232:</u>		drives: use 1:1 connection cable to PC with only pins 2,3 and 5 Not RS configuration cable (ArtNo. 0150-3307). Cable length < 30m.



#### 7.6 X7 - X8

X7 - X8	RS485/CAN	
	1 2 3 4 5 6 7 8 case	RS485_Rx+ A RS485_Rx- B RS485_Tx+ Y GND GND RS485_Tx- Z CAN_H CAN_L Shield
RJ-45	The built in CAN	1-2, 3-6, 4-5, 7-8) cable for wiring. and RS485 terminations can be activated by S4.2 and S4.3. innected to X8 (1:1 connection). Cable length < 30m.

#### 7.7 X13

X13	External Position Sensor Differential Hall Switches
0 1 9 2 0 3 0 3 0 1 4 0 1 4 0 1 4 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	1       +5V DC         9       A+         2       A-         10       B+         3       1         11       Z+         4       Z-         12       Encoder Alarm         5       GND         13       U+         6       U-         14       V+         7       V-         15       W+         8       W-         Shield       V-
DSUB-15 (f)	Position Encoder Inputs (RS422):         Max Input Frequency: 2MHz, 4 M counts/s with quadrature decoding, 240ns edge separation         Encoder Simulation Outputs (RS422):         Max Output Frequency: 2.5MHz, 5 M counts/s with quadrature decoding, 200ns edge separation         Differential Hall Switch Inputs (RS422):         Input Frequency: <1kHz



7.8 X14

X14	24VDC Supply and IOs
	X14 *** internal pull down resistor 10k to GND ** output with internal pull down resistor 10k to GND +24V DC Output Supply +24V GND +24V GND
• 14 2• 15 3• 16 4• • 17 5• 18 6• 19	X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X
7 0 8 21 9 22 10 23 11 24 12 25 13	GND     GND       Dig In 1     Dig In 2       Dig In 2     Dig In 3       Dig In 3     Dig In 4       Dig In 4     J       Dig In 5     Dig In 6       Dig Out 1     Dig Out 2       Dig Out 3     Dig Out 3       Step +     Step +       Analog In 1     J       Dig Out 4     Bif An In -       Dig Out 5     Dig Out 4       Step +     Step +       Dir +     Dir -       Dir -     Dir -
	Outputs (max. 100mA) +24V Inputs
DSUB-25 (f)	Logic Supply: Switch Mode Power Supply: 24VDC (2226VDC) External Fuse: 2A slow-blow
	All Digital Inputs:         Direct interfacing to digital 24VDC PLC outputs.         Input Current:       1mA         Logic Levels:       Low Level: guaranteed: -5 to 5VDC, typically < 8VDC         High Level guaranteed:       2030VDC, typically > 16VDC         Sample Rate:       400us
	All Digital Outputs:Short circuit and overload protected high side switches.Voltage:24VDCUpdate Rate:400usMax. Current:100mA / 500mA for X14.17Peak Current:370mA / 1200mA for X14.17
	Outputs may directly drive inductive loads. Do not connect any capacity because of the peak current!          Analog Input on X14.20:         Range: 0V+10V       10Bit ADC
	Sample Rate:     400us       Differential Analog Input on X14.8 X14.21 X14.9 Shield:       Range:     -10V+10V 10Bit ADC       Sample Rate:     400us
	Differential Step Dir Zero:         Indexer Inputs:       RS422, Max. Input Frequency: 2MHz, 4 M counts/s with quadrature decoding, 240ns edge separation
	Cable length < 30m.



#### 7.9 LEDs

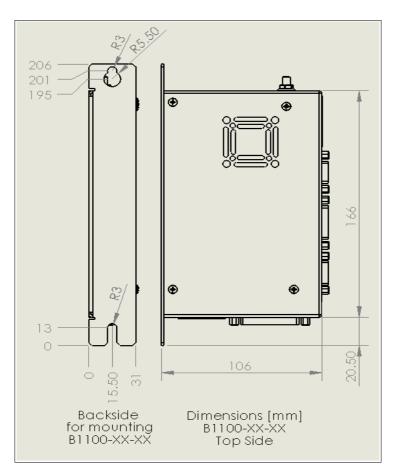
LEDs	State Display	
Error 🔴 🔵 24VOK	Green Red	24V Logic Supply OK Error
• ~0.5Hz	Green On Red blinking	<b>Signal Supply 24V too low:</b> The error LEDs blinks slowly if the signal supply +24VDC (X14.25) is less than 18VDC.

## 7.10 S4

S4	Bus Termination		
4 2 1 on off	S4	Switch 4: Bootstrap Switch 3: Termination CAN on/off Switch 2: Termination RS485 on/off Switch 1: RS232 (switch "off" / RS485 "on"). Selection for RS232 or RS485 Factory settings: Switch 3 "on", all other switches "off"	

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#### 8 Physical Dimension



B1100 Single axis drive		
Width	mm (in)	31 (1.3)
Height	mm (in)	166 (6.6)
Height with fixings	mm (in)	206 (8.1)
Depth	mm (in)	106 (4.2)
Weight	g (lb)	700 (1.6)
Mounting Screws		2 x M5
Mounting Distance	mm (in)	188 (7.4)
Case	IP	20
Storage Temperature	°C	-2540
Transport Temperature	°C	-2570
Operating Temperature	°C	040 at rated data
		4050 with power derating
Relative humidity		95% (non-condensing)
Pollution	IEC/EN 60664-1	Pollution degree 2
Max. Case Temperature	°C	70
Max. Power Dissipation	W	30
Mounting Place		In the Control Cabinet
Mounting Position		vertical
Distance between Drives	mm (in)	20 (0.8) horizontal
		50 (2) vertical

() dimensions in inch



#### **9** Power Supply Requirement

#### **Motor Power Supply**

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 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...)



To provide short circuit power limitation, it is required to use an external fuse (10A slow-blow for blank labeled (LC) and 16A slow-blow for HC and XC labeled drives).

#### 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 S01-72/500 72VDC, 500W, 750W peak, 1x100..120VAC/200..240VAC 0150-1874 S01-72/1000 72VDC, 1000W, 2000W peak, 3x380..500VAC 0150-1872

#### **Recommended Power supplies:**

#### Signal Power Supply

The logic supply needs a regulated power supply with a nominal voltage of 24 VDC. The voltage must be between 22 and 26 VDC.

#### **Current Consumption**

Min. 200mA (no load on the outputs) Typ. 0.5A (all 6 outputs "on" with 50mA load and /Brake with no load) Max. 1.2A (all 6 outputs "on" with 100mA load and /Brake with 0.5A load)



To limit the power in case of malfunction, it is required to use an external fuse (2A slow-blow)!

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## **10 Ordering Information**

Drive	Description	Art. No.
B1100-GP	General Purpose Drive 72VDC/8A	0150-1737
B1100-GP-HC	General Purpose Drive 72VDC/15A	0150-1738
B1100-GP-XC	General Purpose Drive 72VDC/25A	0150-1741
B1100-PP	Point to Point Drive 72VDC/8A	0150-1735
B1100-PP-HC	Point to Point Drive 72VDC/15A	0150-1736
B1100-PP-XC	Point to Point Drive 72VDC/25A	0150-1740
B1100-VF	Current Command Drive 72VDC/8A	0150-1685
B1100-VF-HC	Current Command Drive 72VDC/15A	0150-1686
B1100-VF-XC	Current Command Drive 72VDC/25A	0150-1739
Accessories	Description	Art. No.
RS232 Config	AC01-Df/Df-2-RS1	0150-3307
Cable	RS232 Config Cable DSUB9 f/f 2m (2-2/3-3/5-5)	

## **11 International Certifications**

Certifications	
Europe	See chapter "EU Declaration of Conformity / CE-Marking"
UK CA	See chapter "UK Declaration of Conformity UKCA-Marking"



#### 12 EU Declaration of Conformity / CE-Marking

NTI AG / *LinMot* <sup>®</sup> Bodenaeckerstrasse 2 CH-8957 Spreitenbach Switzerland Tel.: +41 56 419 91 91

declares under sole responsibility the compliance of the products: - Drives of the Series B11x0-xx-xx

with the EMC Directive 2014/30/EU.

Applied harmonized standards:

- EN 61000-6-2: 2005 (Immunity for industrial environments)
- EN 61000-6-4: 2007 + A1:2011 (Emission for industrial environments)

According to the EMC directive, the listed devices are not independently operable products.

Compliance of the directive requires the correct installation of the product, the observance of specific installation guides and product documentation. This was tested on specific system configurations.

The safety instructions of the manuals are to be considered.

These products are intended for installation in machines. Operation is prohibited until it has been determined that the machines in which these products are to be installed, conforms to the above mentioned EC directive.

The product must be mounted and used in strict accordance with the installation instructions contained within the installation guide, a copy of which may be obtained from NTI AG.

Company: NTI AG Spreitenbach, 11.04.2016

faither

Dr. Ronald Rohner / CEO NTI AG



#### 13 UK Declaration of Conformity UKCA-Marking

NTI AG / *LinMot* <sup>®</sup> Bodenaeckerstrasse 2 CH-8957 Spreitenbach Switzerland Tel.: +41 56 419 91 91

declares under sole responsibility the compliance of the products: - Drives of the Series B11x0-xx-xx

with the EMC Regulation S.I. 2016 No. 1091.

Applied designated standards:

- EN 61000-6-2: 2005 (Immunity for industrial environments)
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#### 14 Contact & Support

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