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DRIVEMANAGER Manual

PC user software for Drive contollers of c-line DRIVES CDA3000 / CDD3000

For commissioning, operation and diagnosis of drive units





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Overview of documentation	This manual describes the basic functions of the DRIVEMA- NAGER PC user interface. Commissioning of the devices and the functions of the parameters are described in the Opera- tion Manual to the relevant device series.

Gerätereihe / Series	Dokument (deutsch)	Bestellbez.	Document (english)	Order ref.
CDA3000	Betriebsanleitung	0840.00B.x	Operation Manual	0840.00B.x
CDA3000	Anwendungshandbuch	0840.02B.x	Application Manual	0840.22B.x
CDD3000	Betriebsanleitung	0931.00B.x	Operation Manual	0931.00B.x
CDD3000	Anwendungshandbuch	0931.02B.x	Application Manual	0931.22B.x



DRIVEMANAGER Manual

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We reserve the right to make technical changes.

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1 Introduction to DRIVEMANAGER 3.x

1.1 Supply package

The DRIVEMANAGER 3.x package includes a CD-ROM, the manual, the license agreement and the registration card.



The CD-ROM holds all the program files, the motor databases for the Lust servomotor series and the manuals to the Lust device series in PDF format.

1.2 Application

The new DRIVEMANAGER V3.x is suitable for all series manufactured by Lust. This PC program offers you a userfriendly way of setting parameters for the Lust drives, commissioning them into operation, controlling them directly, or scanning status values from the connected device. The PC user interface automatically adapts to any devices from the following series.

- CDA3000
- CDD3000

1.3	System	Hardware requirements:
	requirements	 PC with Pentium processor (recommended: Pentium II) min.16 MB RAM (recommended: 32 MB) CD-ROM drive (recommended min. 24-speed)
		Operating system:
		 Microsoft Windows[®] 95/98/ME or Windows[®] NT 4.0, 2000, XP
		What's new?
		 The CDA3000 and CDD3000 series can be operated by way of setup screens. This makes handling of their complex functionality much easier.
		 For each preset solution you will find key project planning notes presented in a dedicated window.
		 The user-definable KEYPAD subject area is accessed by way of the "KP200 Einstellen" icon. Up to 14 parameters can be set up (CDA3000 only).
		 You can now compare data sets or partial data sets with each other.
1.4	Registration	Registering is worth the effort!
		Return the completed registration card (enclosed with the DRIVEMANAGER 3.x package or using the Regist.doc file on the CD-ROM) to us and we will keep you informed of relevant updates. As a registered user, you will of course also receive support if you have any problems with the DRIVEMANAGER.
		Keyword: DM-HOTLINE Fax: +0049 (0) 64 41/9 66-177 E-Mail: info@lust-tec.de
		Note: The DRIVEMANAGER may be installed on a PC. However, an installed version can only be opened once at any one time.

2 Installation and starting

When the CD-ROM is inserted the installation starts automatically. Change to the menu "Install" and select the installation of Lust DRIVEMANAGER V3.x. If it does not, doubleclick on the SETUP.EXE file on the CD-ROM to launch the installation process.

2.2 Selecting language

Installation

2.1

In the first dialog box of the InstallShield Wizard you are prompted to select the language in which you want the setup to run (German or English).

In the next dialog box you select the language of the DRIVEMANAGER user interface itself.

InstallShield Wizard			×
Setup Type Choose the setup type that best suits your need	ds.		
Choose language in which DriveManager will b	e started.		
C german C english C french			
InstaliShield	< <u>B</u> ack	<u>N</u> ext >	Cancel



Note:

To install the DRIVEMANAGER 3.x you will need at least 60 MB of available memory capacity on your hard disk.

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2.3 Installing DRIVEMANAGER

If you are installing the DRIVEMANAGER on your PC for the first time, the following screen appears after you have selected your language. A number of steps are then run through in preparation for the installation.

InstallShield Wizard		x
InstallSheld Wizard	Welcome to the InstallShield Wizard for LUST DriveManager The InstallShield [®] Wizard will install LUST DriveManager on your computer. To continue, click Next.	×
	< Bed: Next> Cancel	

1. License agreement (see also 1.4 Registrierung)

2. Destination path

3. Setup type

Standard (requiring approx. 30 MB of memory)

Minimal (requiring approx. 17 MB of memory)

Benutzer (requiring anything from 17 to 60 MB of memory)

First you see the license agreement. If you agree to it, click on "accept".

Enter the path to the folder in which you want to install the program (we recommend using the default path). Then click on the "weiter" button.

Next you choose from three setup types.

InstallShield Wiz	ard 🛛 🗶
Setup Type Select the Setu	up Type to install.
Click the type of	of Setup you prefer, then click Next.
 Typical 	Program will be installed with the most common options. Recommended for most users.
C <u>C</u> ompact	Program will be installed with minimum required options.
C Cystom	You may choose the options you want to install. Recommended for advanced users.
	< Back Next > Cancel

Then click on the "Next" button.



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4. Selecting the program folder	This defines the entry on the Windows Start menu.
	InstallShield Wizard Image: Compare Folder Setect Program Folder Image: Compare Folder Setup will add program icone to the Program Folder lated below. You may type a new folder memory type a new folder memory type a new folder memory type a new folder Brogram Folder: Image: Compare Folder: Setup will add program Folder lated below. You may type a new folder memory type a new folder Brogram Folder: Image: Compare Folder: Setup will add program Folder: Image: Compare Folder: Setup will add program Folder: Image: Compare Folder: Setup will add program Folder: Image: Compare Folder: Made Image: Compare Folder: Adobe Image: Compare Folder: Adobe Image: Compare Folder: Made: Compare Folder: Image: Compare Folder: Made: Compare Folder: Image: Compare Folder: Microsoft Pizzon Image: Compare Folder: Microsoft Pizzon Image: Compare Folder: Image: Compare Folder: Image: Compare Folder: Image: Compare Folder: Image: Compare Folder: Microsoft Pizzon Image: Compare Folder: Image: Compare Folder: Image: Compare Folder: Image: Compare Folder: Image:
	Click on the "Next" button to start the installation (this may take a few minutes).
5. Serial port	Enter the number of the serial port on your PC via which you want to connect to the Lust drive unit. This usually means choosing a port from COM1 to COM4.
ĺ	You can change your port selection later in the "Buskonfiguration" menu.
	Then click on the "Next" button. The installation process concludes with the query "Start LUST DRIVEMANAGER now?".
2.4 Installing the motor database (only for CDD3000)	 All Lust servomotors, with their electrical properties, are entered in two motor databases. They are located in the menu "motordata"
	on the DRIVEMANAGER CD-ROM. From that folder you can launch the setup program directly to install the database.
	Note: By doing so, the data of all the Lust servomotors are available directly to the DRIVEMANAGER for use in commissioning.

2.5 DRIVEMANAGER maintenance

Once you have installed DRIVEMANAGER Version 3.x, you can upgrade the installation (<Modify>), repair it (<Repair>) or delete the current version (<Remove>). The screen shown below appears:

Inst	allShield Wizard				
w	/elcome				
	Modify, repair, or remove the program.				
	Welcome to the LUST DriveManager Setup Maintenance program. This program lets you modify the current installation. Click one of the options below.				
	Modify Select new program components to add or select currently installed components to remove.				
	C Repair Reinstall all program components installed by the previous setup.				
	C Bemove Remove all installed components.				
Insta	IShield				
	Explanation: If you only performed a partial setup the first time you installed the program, and/or if you did not install any of the manuals (PDF files), you can make changes later using the "Programm ändern" function. With this function you can restore damaged files or folders. To install a new version of the DRIVEMANAGER V3.x, you must				
	first remove the old one (e.g. V3.0 Beta).				
	Any user data you have saved (such as in the C:\programs\LustAntriebstechnik\drivemanager\userdata folder) are retained.				

Modify

Repair

Remove







Note:	If you want to connect multiple devices to your
	PC and control them with the DRIVEMANAGER
	(via LustBus), please contact us for further details:
	Tel: 06441/966-180

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2.7 Starting DRIVEMANAGER

2.7.1 Online mode



To start the DRIVEMANAGER in online mode a drive unit must be connected. Please make sure the connection is made correctly (see 2.6 Connecting a device to a PC) and that the device is switched on.

On startup the $\mathsf{DRIVEMANAGER}$ automatically looks for a connected device.

Note: If no connection is made to the connected drive unit, refer to section 3.3.2 Connect.

If the DRIVEMANAGER detects a **CDA3000 device** it opens up two start windows directly. The first indicates which device has been detected.

CDA3000 setu)				×
	sioning	Preset solution: Clock drive, quick, Basic settings		Expa	anded >>
CList of active device	s on bus				- 🗆 🗵
Active device	Type: Address: <u>S</u> ymbolic nam	CDA32.003 1	Bus status Active bus s LUSTBUS Transmission 57600 Number of su	n rate:	bit/s
Address Device 1 CDA32.003	Name		State Parameter settin	g	

The second can be used to set up the detected device. For details of the commissioning procedure refer to the CDA3000 Operation Manual. If you want to customize your setup, you will find detailed information in the CDA3000 Application Manual.



If the DRIVEMANAGER detects a **CDD3000 device** it opens up two start windows directly. The first indicates which device has been detected.

Adjust CDD 3000	Preset solution: Speed control, +/-10V reference, c Basic settings	x
List of active device	es on bus Type: CDD32.003 Address: 1 Symbolic name:	Bus status Active bus system: LUSTBUS Transmission rate: 57600 bit/s Number of subscribers: 1
Address Device 1 CDD32.003 	Name	State Ready for start

The second can be used to set up the detected device. For details of the commissioning procedure refer to the CDD3000 Operation Manual. If you want to customize your setup, you will find detailed information in the CDD3000 Application Manual.



Note:

If no connection is made to the connected drive unit, refer to section 3.3.2 Connect.

2.7.2 Offline mode

On startup the DRIVEMANAGER first looks for a connected device. If it does not find one, you can open a data set and edit it.

To do so:

L

LUST Dr	ive Manager		
		e device <u>E</u> xtras <u>W</u> indow <u>?</u>	
Qpen Print Compare <u>E</u> xit	Device setting Digital scope ima Process sequen Positioning data Parameter data	nce program a	
	Suchen i Cdat defa DRV PRV	324006.00d ault_v2_2_99.00d V_1 mit FDR.00D R mit storagef. Hoch1.00D 4.4 stovem.00D ::00D	
		LUSTBUS : 57600	
	select (folde • It cont and c • This c	the <file><open><device menu="" optio<br="" setting="">to the folder of the series you want, e.g. CDA3000 er:/userdata/samples/«devicefamily»/«dataset nations one or more specimen devices. Choose or click on <open>. opens up a new window showing the setup optior elected device.</open></device></open></file>) »). ie
1	Note:	In offline mode not functions of the device can set. If the DriveManager has already connected to linked device, you can still open and edit a dat at the same time.	a



To disconnect from a device, click on the relevant button.

3 The DriveManager Functions

The graphical user interface of the DRIVEMANAGER version 3.x has been substantially changed relative to version V2.35, because of the functional upgrades carried out. To enable you to find your way around as quickly as possible, we have restructured the DRIVEMANAGER.



Note:These new features are available for the CDA3000
and CDD3000 series.All examples in the following function descriptions
are based on the CDA3000.

3.1 Functions on the toolbar

The toolbar at the bottom corresponds to the basic setup of the DRIVEMANAGER. It enables all the key functions to be launched by a single mouse-click. You can customize the layout as you wish.

🚡 🐴 🐴 🐴	🖹 🖗 🔁 '	🗟 🖣 🛛 🔖 🚽	ts 🔆 📗 💱 💱	1-CDA32.004
		$\uparrow \uparrow \uparrow \uparrow $	↑ ↑ ↑ ^	▶
Open data set Print data set Open digital scope image Compare device settings	Change setting of active device Print device setup Start digital scope	Control drive (Motordatabase (only CDD3000) Connect to device Bue initialization (channe settino)	Dus muranzaroun (change seturity) Disconnect from device Save device setup to file	Active device Active device The name shown here e chosen at will when sa the data set.

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The following function descriptions all make use of the menu bar. The associated buttons in the left margin are additionally

Offline mode means that you can open and edit data sets or



inserted.

digital scope image files.

3.2 Functions in offline mode

3.2.1 Opening/editing/ saving a data set



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With the <File><open><Device setting> menu option you can open the data set of a specimen device in the .../userdata/ samples/«devicefamily»/«dataset» folder.

Note: We recommend that you also use this folder to store your customized data set. This will make it easier to manage your own data sets. The folder is retained whenever the DRIVEMANAGER is updated.

To start with it is advisable to use the *Initial commisioning(1)* menu on the start screen to set up the data set.



More advanced users can access additional setup options by clicking on the **Expanded(2)** button.

Click on the *Store setting in file(3)* button to save the changes power failure save.

Edit data set



Save data set



Parameter Editor

DRIVEMANAGER experts can additionally use the Parameter Editor, accessed by way of the <File><open><Parameterdata> menu option. It provides direct access to subject areas and individual parameters.

Analog inputs	OFF = N	o function				
⊡-🔄 CDA34.006	No. $ abla$	Symbol	Function	Value	Unit	Туре
- ISFC) Initial commissioning	180	FISA0	Function selector analog standard i	OFF		2
I 18IA) Analog inputs	181	FISA1	Function selector analog standard i	OFF		2
E 200A) Analog output	182	F0PX1	CDS 1: Maximum value ISA00 at +1	50	Hz	
	183	F0PN1	CDS 1: Minimum value ISA00 at +0V	0	Hz	2
	184	F0NX1	EDS 1: Maximum value ISA00 at -1	0	Hz	2
🗒 (_240D) Digital outputs 👘	185	F0NN1	CDS 1: Minimum value ISA00 at -0V	0	Hz	2
- II (25CK) Clock input/Clock outp	186	F1PX1	CDS 1: Maximum value ISA01 at +1	50	Hz	2
- II (26CL) Control location	187	F1PN1	CDS 1: Minimum value ISA01 at +0V	0	Hz	2
□ [_27FF) Fixed frequencies	188	AFILO	Filter time constant for analog chan	3		2
	189	AFIL1	Filter time constant for analog chan	3		2
	190	F0FX2	CDS 2: Maximum value ISA00 at +1	50	Hz	2
- 🗐 (_300L) Frequency limits	191	F0PN2	CDS 2: Minimum value ISA00 at +0V	0	Hz	2
I 31MB Motor holding brake	192	IADBO	ISA00 dead-band range	0.00	%	2
[_31MB) Motor holding brake [_32MP) MOP function	193	IADB1	ISA01 dead-band range	0.00	%	2
	194	F0NX2	CDS 2: Maximum value ISA00 at -1	0	Hz	2
(_33MD) Motor protection	195	F0NN2	CDS 2: Minimum value ISA00 at -0V	0	Hz	2
🚬 🗐 (34PF) Power failure bridging 🔎	196	F1PX2	CDS 2: Maximum value ISA01 at +1	50	Hz	2
	197	F1PN2	CDS 2: Minimum value ISA01 at +0V	0	Hz	2
Expert					F	ile mode

3.2.2 Compare data sets



To identify the differences between two data sets, the <File> <Compare> menu option provides you with a comparison function.

🚰 Compare settings	×
Setting 1	
C Setting of active device	Options
€ <u>F</u> ile	
C:\Programme\Lust Antriebstechnik GmbH\LUST Drive	<u>S</u> earch
Setting 2	
Eactory setting of active device	
C <u>F</u> ile	
<u>D</u> k <u>C</u> ancel	Help

In the default factory setting the result is displayed in a text editor window, from which it can also be printed.

1



3.2.3 Print data sets

With the <File><print><Parameter file> menu option you select the data set for printing. When you have selected your data set the following print menu appears.

C Print parameter	settings	×
	Please choose a printing format or define You own format (user defined).	r
	standard	•
	standard	
	programmer user defined	
Add comments		_
Print into ASCII-f	ile	1
		Pre <u>v</u> iew
<u>0</u> k	Cancel Eormatting	<u>H</u> elp

The settings signify:

- Standard = All parameters are printed in a plain-text list
- Programmierer = All parameters are printed in a list also containing programming information (e.g. hex value, data type, memory type etc.)
- User defined = Only the parameters of the selected subject areas are printed

3.3 Functions in online mode

In addition to the functions described under "Functions in offline mode", this section also deals with functions under the <active device> menu.

3.3.1 Select user level



The user level can be selected with the <Extras><select new user level> menu option. Level 1 is intended for users who are not entitled to make any settings in the device. User level 4 provides experts with unlimited access to the individual parameters.



3.3.2 Connect

When the DRIVEMANAGER is started it automatically connects to the linked device. (see also section 2.7.1, Starting DRIVE-MANAGER)

If no connection is made:



• Click on the "Bus configuration" button or choose <Communication><Bus configuration> from the menu. The following windows appear:

Content Connection to individual unit Connection to individual un
Check: • the settings against the example above • the physical connection between the PC and the device • Then reconnect



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3.3.3 Changing/saving settings



The main window is automatically opened once the connection is made, allowing you to make settings for the active device.

C:\Programme\Lust Antriebst	echnik GmbH\LUST DriveMan	ager\userdata\sample 🗙
	Preset solution:	
Initial commissioning	Basic settings	Expanded >>
Actual values	aming	
Store setting in file		ancel <u>H</u> elp

We recommend beginners initially follow the steps laid out in the "Initial commissioning" menu. They will enable you to make the key customization settings safely and easily.

DRIVEMANAGER experts can use the "Expanded>>" button to customize more features, such as to optimize the reference ramps or loop control.

CDA3000 setup		×
	Preset solution: Clock drive, quick/slow jog	
Initial commissioning	Basic settings	Expanded >>
Dutputs Bus systems		Motor and encoder
Actual values	arning	
Save setting in device		<u>Cancel</u> <u>H</u> elp

All changes are saved by clicking on the "Save setting in device" button.

3.3.4 Comparing

data set

data of active device with

function.

🛃 Compare settings

Setting of active device

C Eactory setting of active device

C:\Programme\Lust Antriebstechnik GmbH\LUST Drive

<u>0</u>k

Setting 1

🔿 File

Setting 2

🖲 File

Under the <Datei> menu item vou will find the <Compare>



X

Options.

Search.

Help

To compare the settings of your active device with a stored data set, choose

Cancel

- as setting 1 "Setting of active device"
- as setting 2 "File", specifying the path.

In the default factory setting the result is displayed in a text editor window, from which it can also be printed.

You can also compare the current setting of the active device with the factory setting.

Once you have changed the settings of the active device, you can save them as a data set, on your PC for example.

To do so, from the <Active File> menu choose <Store device settings on -> File>. In the window which then appears you need to specify a location and a new name for the data set you are saving.

To load a data set into your drive unit, from the <Active File> menu choose <Load device settings from -> File>. In the window which then appears you need to specify the location and name of the data set you are loading.



3.3.5 Saving/loading/ printing a setting









Note: You can reset to state of delivery the device settings by choosing <Active File><Reset to factory setting> from the menu.

You can print out a list of the settings of the active device by way of the <Active File><Print settings> menu (see section 3.2.3

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"Print data sets").

3.3.6 Controlling a device



With this function you can control your Lust drive unit directly from the DRIVEMANAGER. The only requirement for this is that the hardware enable (ENPO) has been issued via the control terminal of the drive unit.

Attention:Before you can launch this function, your drive unit
must be commissioned into operation as set out in
the relevant Operation Manual.
Also be sure to follow the safety instructions set out
in the Operation Manual.

Start by clicking on the "control" button. The following window appears:

Control	_ 🗆 X
Drive	Control mode
ätart (enable power stage)	Voltage frequency control
2. Stop (disable power stage)	Reference
	5 Hz
Stop (with speed 0)	
Reset error	50 0 50
Actual value amount	<u>E</u> xit
5	Hz <u>H</u> elp

- 1. In the "Reference" field specify the rotating field frequency.
- 2. Click on the "Drive" button to start up your drive.
- 3. From the bar graph "Actual value amount" you can observe this process, etc.
- 4. Click on the "Stop" button to brake the drive down to speed 0 and disable the power stage.

3.3.7 Scope function



The digital scope records the time characteristics of control variables. This is useful when commissioning controlled systems (step response) or to detect errors.

The digital scope has four channels, to which you can assign the desired measurement variables.

V 0	Control reference 0. Hz
⊽ 1	Control actual value 0 Hz
₽ 2	Effective value of active current0.010742_ A
⊽ 3	Effective value of apparent current

In the "Trigger" window you define the event to which you want the digital scope to respond (= begin recording).

Channel ^{tr}	igger Time S	pecial functions		
Channel	Aode			
• 0	 Both edges 	Pre-trigger	_10.00 %	
O1 (C Falling edge	Level	Hz	
C 2	C Rising edge			
C 3 (C Automatic			

The "Pretrigger" function begins recording before the actual trigger point, e.g. 10 % referred to the recording duration.

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In the "Time" window with the ...

- Recording window (1) function you can specify the desired duration of recording (for events covering a lengthy period of time), or
- **Time per sampling period (2)** function you can specify the time cycle in which the variables are to be measured (suitable for very fast signal changes).

Channel trigger Time Special functions	
Default value is Recording window (duration) 0.3405 s Time per sampling period 0.4932 ms	
<u>Start record</u>	Help

Note: Initially choose a sampling period of 3 seconds, for example, and then delimit the period or time division in the second sampling operation.

Prepare (1.) and start (2.) sampling by way of the "Control" menu

C Digital scope				×
Channel trigger	Time Special	functions		-
0 Control refere	nce	0	Hz	
🔽 1 Control actua	l value	0	Hz	
2 Effective value	ue of active current	0.016602	A	
3 Effective value	ue of apparent curr	ent 0.051758	A	
Stat-ecord	Control mod Field-oriented	Status Jaiting for trigger event . Irigger manually	0%	<u>C</u> ancel
2. Isable power stage) Beverse direction	Reference	Hz		
Stop (with speed 0) Reset error	▲ ▶ .50	0 50		
Actual value amount 0	Hz	<u>E</u> xit <u>H</u> elp		



Result of sampling in plot window:



3.3.8 Saving/printing the plot window

From the <File> menu of the plot window choose <save as> to save the digital scope image.

With the <Print> option on the same <File> menu you can print out the image as a black-and-white picture.





Stored digital scope images can be reopened on-screen by way of the <File><open> menu option.

4 Status display and actuals

4.1 Status display

The new DRIVEMANAGER user interface now directly includes the key status displays of the drive system.



(A)

Status of reference and actual values

Depending on the connected device (CDA3000/CDD3000) and the selected operation mode (VFC, speed control, etc.) the current reference and actual values of the device are displayed here.



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states

(B) Status of device	Indicates the current device status, e.g.
Status of device	Switch-on inhibit = ENPO off
	Ready = ENPO on
	Control enabled = STR/STL on
	etc.
(C)	
Indicates the active data set	CDA3000 data sets I active user data set (LDS) 1 active characteristic data set (CDS) CDS1
(D) Indicates the current terminal assignment and the terminal	Click on the "Fct" or "IO" button to toggle the display. The example below shows the terminal assignment for the preset solution "DRV_1" (with connected CDA3000).

Clock drive w Quick jog/slo			ick jog driving profik	e or		
	X2	Des.	Start/Slop guick log		X2	Des.
	20	OSD02/14	anti-ciockwise		• 10	ISD01
message KO	+24V • 19	OSD02/11	Start/Slop quick jog	STR	• 9	ISD00
	18	OSD02/12	Power stage hardware	ENPO	• 8	ENPO
Reference reached	• 17	DGND	erable		• 7	+24 V
~	→ H1 ● 16	OSD01			• 6	+24 V
motor holding brake	• 15	OSD00	Actual frequency	M _☉ +	• 5	OSADO
No.	- KI • 14	DGND	010V = 0FMA	، Ľ	• 4	AGND
[] ∰_ ⊨	• 13	+24 V		Not assigned	• 3	ISA01
N	ot assigned • 12	ISD03		Not assigned	• 2	ISA00
Selection of	S1 0 11	ISD02			. 1	+10 V Ref.



4 Status display and actuals

4.2 Actuals

The actual values of the device are accessed from the main window under the button of the same name.



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4 Status display and actuals



Lust Antriebstechnik GmbH

Gewerbestrasse 5-9 • D-35633 Lahnau Phone +49 (0) 64 41 / 9 66-0 • Fax +49 (0) 64 41 / 9 66-137 Internet: http://www.lust-tec.de • e-mail: info@lust-tec.de

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We reserve the right to make technical changes.