



# **MyDrive Insight**

# OPEN UP A NEW DIMENSION OF IN

INTELLIGENCE

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## 1 Introduction to Application Guide

#### 1.1 Version History

This guide is regularly reviewed and updated. All suggestions for improvement are welcome.

The original language of this guide is English.

Version	Remarks
01	First version. Information in this version of the guide corresponds to application software version 2.11.2.

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### 2 PC Control

#### 2.1 MyDrive® Insight

MyDrive® Insight is a platform-independent software tool that supports the commissioning, engineering, and monitoring of iC7 series. Some of the key features include:

- Fast and easy configuration and commissioning.
- Monitor the drives as part of daily operations.
- Collect data and information for troubleshooting, maintenance, and service.
- Discovery and access to multiple drives in a network.
- Intuitive user interface.
- Notifications and visualizations of real time information and events about the drive.
- PC control to perform operations such as starting or stopping the drive, set references, set direction, reset, and coast of the drive.
- Perform updates on single or multiple drives.
- Backup and restore of parameter settings.
- Data logging and analyzing for troubleshooting.

### NOTICE

This chapter applies to MyDrive® Insight version 2.8.0 or above. Please make sure to uninstall lower versions of MyDrive® Insight from your device to utilize the latest MyDrive® Insight functions.

The section MyDrive® Insight in the application guide covers basic information such as getting started with MyDrive® Insight, accessing and viewing or changing the parameters, and PC control to operate the drive using MyDrive® Insight. For further information on the different MyDrive screens, integrated help within MyDrive® Insight will be available in future releases.

### 2.1.1 Getting Started with MyDrive Insight

As a prerequisite, ensure that MyDrive<sup>Æ</sup>Insight is installed on the device (PC or laptop). MyDrive<sup>Æ</sup>Insight can be downloaded and installed from MyDrive ESuite, available here: https://suite.mydrive.danfoss.com/ Procedure

1. To establish a point-to-point connection between the drive and the device, use the communication interface X0 and the RJ45 Ethernet port on the device by using a standard Ethernet cable.

If the device does not have an RJ45 Ethernet port or it is already in use, then a conventional adapter from USB-C to RJ45 can be used. To connect several drives at the same time, use an Ethernet switch between the PC and the control unit.

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- 2. When the drive is powered up and in *Ready* state, open MyDrive<sup>®</sup> Insight on the device and the drive is recognized.
- 3. To establish or confirm the connection, click the arrow button.

≡ Li	ive Devices	-11	Overview				46.10	0	
۵	Overview		ic7-136b7309				0bj7		
~ 1	ic7-136b7309 Not connected	>	HOST NAME	CONNECTION INFO	PROTOCOL	INTERFACE	e3	9	
•			ic7-136b7309	169.254.146.204:2020	ТСР	X0			
stratio	on 2: Confirm (	Connec	tion						

Once the connection is established, the drive is marked with a connection symbol (green color) in MyDrive<sup>®</sup> Insight as shown.



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PC Control

4. Select the required interaction for the drive. In this example, the *Device Info* screen is shown.

€ 167=1360/30911933.	•	ic7-136b7309119552g451 🗙 🕅	REM 💄 🕼 🔺 🔸 Fault ! Start Inhibited				
Device info	> c	control board - Industry					^
Graphs and Reports		Application					^
🌽 Setup & Service		Application Name Application Version	Industry 1.9.0-stepup-FW221.3		iC7 Parameter Interface Version	1.9.0-stepup-FW221.3	
Events		Firmware					^
Customization	>	Firmware Name	ControlEthernet		Firmware Version	2.2.0	
		Hardware					^
		Board Serial Number MAC Address X0	119552G451 00:18:08:32:44:F0		MAC Address X1/X2	00:1B:08:32:44:F1	
		BasicIO					^
		Firmware Name Firmware Version Slot Assignment	BasiclO 2.2.0-alpha.54 101		Brand Board Serial Number	Danfoss 017341G091	
	s	lot 300 - IntegratedPower					^
		Firmware					^
		Firmware Name Firmware Version	IntegratedPower 2.2.0-alpha.54		Slot Assignment	300	
		Hardware					^
		Brand Board Serial Number	Danfoss 012550G091		Product Power Unit Identification Product Power Unit Data Version	iC7_60_FX02_3N05_2A4 1.0.2	
	s	ilot 501 - ControlPanel					^
		Firmware					^
stration 4: Device	Info		NOT				
			ΝΟΙ				
he application g	uide co	vers basic inf	ormation such as acces	sing para	meters and usi	ng the PC control	in MyDrive® I

### 2.1.2 Accessing Parameters and Understanding Parameter Screens in MyDrive Insight

Viewing and Changing Parameters

1. To access the parameters of the connected drive, click Setup and Service.

2. Click Parameters  $\rightarrow$  Live as shown.





#### Parameter Screen Overview

The following is an overview of the *Parameters (Live)* screen in MyDrive<sup>Æ</sup>Insight.

#### **MyDrive Insight**

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All devices		0 Search (2)					(4)	5) .	ic7-136b7309032955g172	
ic7-136b7309032955g172	<b>1</b> 1 ~		INDEX	NAME	VALUE 3	DEFAULT	MIN	: MAX	Select all	5
		*** Overview	1.1.1	Grid Frequency	50.1		-590.0	590.0 ^	-	$\bigcirc$
Device info	~	^ ■ 1 Grid 1	1.1.2	Line-To-Line Voltage (RMS)			0.0	1000.0	TN	
<ul> <li>Live</li> </ul>			1.1.3	L1-L2 Line Voltage (RMS)	190.9		0.0	1000.0	1 2 1 Invalid Energy aport Resource	
Graphs and reports	~	<ul> <li>2 Power conversion &amp; DC Link</li> </ul>	1.1.4	L2-L3 Line Voltage (RMS)	190.5		0.0	1000.0	Trip	112-
Sotup and convice		\land 🖿 3 Filters & Brake Chopper	1.1.5	L3-L1 Line Voltage (RMS)	381.5		0.0	1000.0	1.1.2 Mission Phase Resource	
- Setup and service	Ť	A 🖬 4 Motor	1.1.6	Grid Voltage Imbalance			0.0	100.0	Warning	- 14
Parameters	~		1.1.7	Total Harmonic Distortion (THDv)			0.0	Image: Second		
<ul> <li>Live</li> </ul>		∧ ■ 5 Application	1.1.12	Grid Active Power	0.00		-6470.00	6470.00	Ich-1360-7300032985g172     Select all S     Th     Th     131 hold Program (Report)     133 hold Program (Report)	
Interface configuration		6 Maintenance & Service	1.2.1	Grid Type	TN	TN	0	5		
Functional asfatu			1.2.2	RFI Relay Mode	As per grid type selection	As per grid type	0	2		
Functional safety	^	<ul> <li>Functional Safety</li> </ul>	1.3.1	Invalid Frequency Response	Trip	Trip	1	2		
Events	^	A 8 Customization	1.3.2	Missing Phase Response	Warning	Trip	1	3		
了 Customization	~		1.3.3	Undervoltage Protection	Enable	Enable	False	True		
			1.3.9	Grid Voltage Imbalance Mode	Fault or Warning	Fault or Warning	0	2		
		∧ ■ 10 Connectivity	1.3.10	Grid Spike Response	Warning	Warning	1	2		
			2.1.1	Unit Nominal Voltage	415.0	415.0	0.0	1000.0		
			2.1.2	Unit Nominal Current	3.00	3.00	0.00	9.00		
			2.1.3	DC-Link Voltage	529.9		0.0	1100.0		
			2.1.7	DC-Link Power	0.00		-6470.00	6470.00		
			2.1.10	U-phase RMS current			0.00	9.00		
			2.1.11	V-phase RMS current	0.00		0.00	9.00		
			2.1.12	W-phase RMS current			0.00	9.00		
			2.1.14	Output Current Limit %			0.0	300.0		
			2.1.15	Heat Sink Temperature	29.8		-50.0	200.0		sy Program.
			2.1.16	Main Fan Speed	3585		0	1000.0 100.0 100.0 100.0 5 2 2 2 3 100.0 5 100.0 5 2 2 2 100.0		
			2.1.17	Internal Fan Speed			0	32767		
			2.1.19	Heat Sink Temperature Output	Basic I/O T16	None	0	29999		
			2.1.20	Drive DC-Link Voltage Output	None	None	0	29999		
			2.2.1.1	Unit Voltage Class	Low Voltage Range	Low Voltage Ra	1	3		
			2.2.1.2	Overload Mode	High Overload (HO1)	High Overload (	0	3		
			2.2.1.3	Output Current Limit %	150.0	150.0	0.0	200.0		
			2.2.1.5	Supply Mode	AC	AC	0	1		
			2.2.1.7	HF Filter Relay Mode	As per grid type selection	As per grid type	0	2		
			2218	Power Limit Motor %	300.00	300.00	0.00	1000.00		

#### Illustration 6: Parameters (Live)

#### Table 1: Legend Table

Legend	Name	Description
1	Parameter group	Navigate through the different parameter groups in the drive.
2	Search field	Use the search function to find a specific parameter.
3	Value field	View and change a parameter value or selection. All the parameters for the drive are shown on the Live screen.
4	PC Control button	Switch to PC control to start or stop the drive using MyDrive Insight.
5	Favorites	Select a parameter as a favorite by clicking the star in its row. Open the favorites panel on the right side of the screen by clicking the star at the top of the page.

Navigate through different parameter groups In the following picture, *parameter group 4 Motor* is shown as an example.



PC Control

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#### PC Control

Q Search						
	INDEX	NAME 4	VALUE	DEFAULT	MIN	MAX
	4.2.2.1	Nominal Power	1.10	1.10	0.02	6.47
1 Grid	4.2.2.2	Nominal Current	2.8000	2.8000	0.0300	9.0000
2 Power Conversion & DC Link	4.2.2.3	Nominal Speed	1420.0	1420.0	0.0	100000
	4.2.2.4	Nominal Frequency	50.0	50.0	0.0	2000.0
3 Filters & Brake Chopper	4.2.2.5	Nominal Voltage	400.0	400.0	5.0	1000.0
<ul> <li>4.2.1 General Settings</li> <li>3 = 4.2.2 Nameplate Data</li> </ul>						
4.2.3 Asyn, Induction Motor						
4.2.4 Permanent Magnet Motor						
<ul> <li>4.2.4 Permanent Magnet Motor</li> <li>4.3 Motor Control</li> </ul>						

#### Illustration 7: Parameter Group

- 1. Click the parameter group (1) from the *Live* pane.
- 2. Click the parameter subgroup (2).
- 3. Repeat step 2, until the right level of parameter subgroup (3) is reached to find the specific parameters (4).



When in a specific parameter subgroup, only parameters relevant to the parameter subgroup can be accessed.

#### Searching for a specific parameter

In the Search field, type the search term. The search returns all parameters that have the search term in the name.

In the following example, all parameters with DC-Link in the name are listed in the search results.

Q DC-Link 1 ×									
	INDEX	NAME	VALUE	DEFAULT	MIN	MAX	UNIT	NUMBER	
of offering a	2.1.3	DC-Link Voltage (2)	528.7		0.0	1100.0	v	9044	G
1 Grid	2.1.7	DC-Link Power	0.00		-6470.00	6470.00	kW	5117	G
2 Power Conversion & DC Link	2.1.20	Drive DC-Link Voltage Output	None	None	0	29999		2311	G
	2.3.1.3	DC-Link Voltage Ripple Response	Trip	Trip	0	2		2929	G
<ul> <li>3 Filters &amp; Brake Chopper</li> </ul>	2.3.1.4	DC-Link Imbalance Response	Trip	Trip	1	2		2346	G
4 Motor	2.1.3	DC-Link Voltage	528.7		0.0	1100.0	V	9044	G
	2.1.7	DC-Link Power			-6470.00	6470.00	kW	5117	G
5 Application	2.1.20	Drive DC-Link Voltage Output	None	None	0	29999		2311	G

Illustration 8: Search button

1	Search term
2	Search results

#### 2.1.3 Viewing and Changing Parameter Settings

When in a specific parameter group, all parameters related to the parameter group are shown. Depending on the access type of the parameter, there is a possibility to view the parameter setting or change the current selection or value of the parameter. In the following picture, *parameter group 4 Motor* is shown as an example.

PC (	Control

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All devices		Q Search	(1)	(2)	6)	$\overline{(7)}$	(8)		(9)	(10)	(11)(12
ic7-136b7309032955g172 169.254.79.207:2020	4t ~		INDEX	NAME	VALUE	DEFAULT	MIN	MAX	UNIT	NUMBER	
		Overview	4.1.1	Motor Current	0.00		0.00	9.00	A	9000	0 \$
	~	A I Grid	4.1.2	Motor Current %	0.0	3)	0.0	200.0	16	9001	0 13
<ul> <li>Live</li> </ul>		a 2 Power Conversion & DC Link	4.1.3	U-phase RMS current	0.01	9	0.00	9.00	A	9020	0 \$
Graphs and reports	~		4.1.4	V-phase RMS current			0.00	9.00	A	9021	0 \$
Setup and service		A Brilters & Brake Chopper	4.1.5	W-phase RMS current			0.00	9.00	А	9022	0 \$
Je octop and service		A 4 Motor	4.1.6	Motor Voltage			0.0	1000.0	v	9005	0 1
Parameters	×		4.1.7	Motor Voltage %	0.00		0.00	200.00	%	9006	0 \$
Live		<ul> <li>5 Application</li> </ul>	4.1.11	Motor Torque	0.00		-10000000.00	1000000.00	Nm	9009	0 \$
Interface configuration		6 Maintenance & Service	4.1.12	Motor Torque %			-300.0	300.0	%	1708	0 \$
Eurotional cafety		7 Eurostianal Cafety	4.1.13	Motor Shaft Power	0.00		-6470.00	6470.00	kW	9008	0 1
Functional salety	^	<ul> <li>Functional Safety</li> </ul>	4.1.14	Motor Power %			-300.0	300.0	%	1707	0 \$
Events	^	8 Customization	4.1.15	Motor Electrical Power	0.00		-6470.00	6470.00	kW	9043	0 \$
Customization	^	o 🖿 91/0	4.1.16	ETR Motor Thermal Load	0.0		0.0	100.0	%	2951	0 1
			4.1.17	Motor Current Output	None	None	0	29999		2302	0 🖈
		∧ ■ 10 Connectivity	4.1.18	Motor Voltage Output	None	None	0	29999		2303	1
			4.1.19	Absolute Motor Torque Output	None	None	0	29999		2306	0 \$
			4.1.20	Motor Torque 200% Output	None	None	0	29999		2310	$\begin{array}{c} 0 \\ 2 \\ 2 \\ 3 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$
			4.1.21	Absolute Motor Speed Output	None	None	0	29999		2301	1
			4.1.22	Motor Speed 200% Output	None	None	0	29999		2309	0 \$
			4.1.23	Actual Motor Power Output	None	None	0	29999		2305	0 2
			4.1.24	AMA Progress	0.0	~	0.0	100.0	%	429	0 \$
			4.2.1.1	Motor Type	Asyn. Induction Motor	4 Asyn. Induction	0	65535		407	<ul> <li>○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○</li></ul>
			4.2.1.2	Number of Pole Pairs	2	2	0	65535		406	0 \$
			4.2.1.3	AMA Mode	Off		0	4		420	0 \$
			4.2.1.5	Motor Cable Length	100.0	100.0	0.0	10000.0	m	425	0 \$
			4.2.2.1	Nominal Power	1.10	5)1.10	0.02	6.47	kW	405	0 \$
			4.2.2.2	Nominal Current	2.8000	2.8000	0.0300	9.0000	A	400	0 \$
			4.2.2.3	Nominal Speed	1420.0	1420.0	0.0	100000.0	rpm	402	0 \$
			4.2.2.4	Nominal Frequency	50.0	50.0	0.0	2000.0	Hz	403	0 \$
			4.2.2.5	Nominal Voltage	400.0	400.0	5.0	1000.0	v	401	0 \$
			4.2.3.1	Stator Resistance Rs	4.7838	4.7838	0.0000	100000.0000	Ω	408	0 \$
			4.2.3.2	Rotor Resistance Rr	3.6703	3.6703	0.0000	1000000.0000	Ω	409	0 \$
			4.2.3.3	Iron Loss Resistance Rfe	2993.9	2993.9	0.0	11000000512.0	Ω	413	0 \$
			4224	Chates Lealings Department Via	0.0470	0.0470	0.0000	04.44.5000	0		@ A

Illustration 9: Parameter Overview

#### Table 2: Legend Table

Number	Field Name	Description
1	Index	Based on the parameter group structure, the index defines the location of the parameter. The index is not used as a unique identifier of a parameter.
2	Name	Name of the parameter.
3	Status parameter	Provides the current status or value of a parameter. The parameter value is shown in a light gray color and cannot be changed.
4	Selection parame- ters	To see all selections available for the parameter, click the value in the <i>Value</i> field.
5	Range parame- ters	The parameter value can be modified based on the ranges defined (maximum and minimum values).
6	Value	The current value of the parameter.
7	Default	The factory setting (default value) of the parameter.
8	Min and Max	When applicable, the minimum and maximum values of the parameter are shown in the <i>Min</i> and <i>Max</i> fields.
9	Unit	When applicable, the unit of the parameter is shown in the Unit field.
10	Number	The unique identifier for each parameter. The identifier is independent and decoupled from the parameter index values.
11	Help	Click the ? button to see a description about the parameter.
12	Favorites (star)	Clicking the Favorites icon will add the parameter to Favorites.

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### 2.1.4 PC Control to Operate the Drive Using MyDrive® Insight

To operate the drive using PC control, click the *Control Panel* button in MyDrive<sup>Æ</sup>Insight. The following illustration shows the different screens to operate the drive via MyDrive<sup>Æ</sup>Insight.



Illustration 10: Operate Drive using MyDrive / Insight

#### To access PC Control in MyDrive<sup>∉</sup> Insight and operate the drive, perform the following:

- 1. Click the *REQUEST CONTROL* button (1).
- 2. Click Continue (2) to confirm secure operational conditions while controlling the drive using MyDrive® Insight.
- 3. Use the START, STOP, STOP COAST buttons (3) to perform a drive operation. Use the sliders (4) to increase or decrease the reference speed.
- 4. To reset a drive in case of a fault, click RESET FAULTS (5).
- 5. For ease of access, click the Pin button (6) to make the control panel constantly visible on the screen.

#### 2.1.5 Datalogger

The datalogger in MyDrive Insight enables the monitoring of signals and related information for the selected signals. To access the Datalogger feature, select the drive (1), then go to *Graphs and Reports* (2)  $\rightarrow$  *Datalogger* (3).

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**PC Control** 



Illustration 11: Navigating to Datalogger

The following image shows the Datalogger main controls.

=	Live devices 🔻		:	Datalogger • ic7-136b73090329	55g172 × 🕅 REM 🔺 •	Start Blocked			10	:	۵	*	+++		52.11	
	All devices			U TURN ON	✤ FORCE TRIGGER	ARM DEVICE	APPLY SETTINGS							• Disat	oled 8	2
	ic7-136b7309032955g172 169.254.79.207:2020	4t	~	(4) Settings	(5)	6	$\bigcirc$							3	) es	
	Device info		^	Sample time (ms)		$\widehat{\mathcal{O}}$	)	Window time (s)								
	Graphs and reports		~	100		G		2								
	Datalogger		~	-				-								
	<ul> <li>User datalogger</li> </ul>			storage	(511)			Trigger position (s)								
9	Commissioning report			Temporal de	vice storage (RAM)			0.0								
	Setup and service		~	Trigger type				Trigger level 1								
	Parameters		^	No trigger				0								

#### Illustration 12: Datalogger Screen

#### **Table 3: Main Controls**

Legend	Description
1	Opens the window to select available Datalogger files for viewing.
2	Shows the list of Datalogger settings.
3	Shows the Datalogger status.
4	Enables or disables Datalogger. When disabled, all Datalogger configuration settings are inactive. When enabled, Data- logger is active and operates based on the configuration settings.
5	Activates the force trigger. The 0 – 1 transition (rising edge) triggers Datalogger manually. This function is typically used with automatic triggers.
6	Arms Datalogger. The 0 – 1 transition (rising edge) readies Datalogger for triggering.
7	Applies any changed settings.

#### 2.1.5.1 Configuring Datalogger

- To configure the datalogger, follow these 2 main steps:
- Configure the signals to be recorded using the datalogger.
- Configure the datalogger settings.

#### Procedure:

1. Open Datalogger.

The settings view opens.

=	Live devices 🔻	:	Datalogger ● ic7-1366/309032955g172 × 發 REM ▲ • Start Blocked		8	+	٦	*	$\stackrel{++}{\longleftrightarrow}$		8	[] 11.988jo
	All devices		U TURN ON 🖸 FORCE TRIGGER 💠 ARM DEVICE APPLY SETTINGS							•	Disab	led bel
	ic7-136b7309032955g172         169.254.79.2072020         □ Device info         im Graphs and reports         Datalogger         Outer datalogger         Commissioning report         ✓ Setup and service         Parameters         Interface configuration	4t	Settings Sample time (ms) 100 Storage Temporal device storage (RAM) Trigger type No trigger File name USEr	Window time (s) 2 Trigger position (s) 0.0 Trigger level 1 0 Overwrite								
	Functional safety											
	Customization		Next file number	Trigger mode Singlo								
• • •			Trigger source Add signal + Signals Add signal +									

Illustration 13: Datalogger Settings

The descri	ption of the user interface elements in the screen is as follows:
Field name	Field description
Sample time (ms)	Enter a sample time in ms. The actual sample time is dependent on the switching frequency. Fast sample rate settings result in data changing slowly in the resulting log.
Win-	Defines the size of the capture window. Enter the window time in seconds.
dow time (s)	High sample rates and large capture times that result in large capture files may be rejected when the config- uration is applied.
Stor-	Select the location to which datalogger files are stored. Available selections are:
age	- RAM: Settings are stored on the RAM of the drive.
	- Flash: Settings are stored on the flash of the drive.
	- <b>SD card:</b> Data is stored on the (optional) microSD card.
	The supported microSD cards are: SD, SDHC, or SDXC, which must be formatted for the FAT32 file system. SDHC is the recommended type as they are delivered preformatted to FAT32.
Trigger posi- tion (s)	Adjust the slider to position the trigger. Setting the trigger position to 0 indicates that the datalogger re- cording starts at the time of the trigger. Setting a negative value indicates that the datalogger recording starts after the trigger has occurred. Setting a positive value indicates that the datalogger recording starts before the trigger has occurred.
Trigger	The trigger types are the following:
type	- No trigger (manual trigger only)
	- <b>Equal</b> triggers when the value of the trigger source variable is equal to trigger level 1.
	- Not equal triggers when the value of the trigger source variable is not equal to trigger level 1.
	- <b>Greater than</b> triggers when the value of the trigger source variable is greater than trigger level 1.
	- <b>Greater than or equal to</b> triggers when the value of the trigger source variable is greater than or equal to trigger level 1.
	- Less than triggers when the value of the trigger source variable is less than trigger level 1.

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Field	Field description
name	
	- Less than or equal to triggers when the value of the trigger source variable is less than or equal to trigger level 1.
	- <b>Rising edge</b> triggers when the value of the trigger source variable rises above trigger level 1. If the trigger source variable rises above trigger level 1. If the trigger must first drop below the trigger level

	<ul> <li>Rising edge triggers when the value of the trigger source variable rises above trigger level 1. If the trigger source is already above trigger level 1, the trigger must first drop below the trigger level.</li> <li>Falling edge triggers when the value of the trigger source variable falls below trigger level 1. If the trigger source is already below trigger level 1, the trigger must first rise above the trigger level 1. If the trigger source is already below trigger level 1, the trigger must first rise above the trigger level 1.</li> </ul>
Trigger level 1	Defines the trigger level associated with the defined trigger type. This level is used for all single-level trigger types. The entry in the field defines the lower trigger level for window trigger types, such as bounds and out of bounds.
File name	Name of the file for datalogger recording.
Over- write	<ul> <li>Click the toggle button to turn the overwrite function on or off.</li> <li>On: Overwrite is enabled. A file number is not appended to the datalog file. The datalogger overwrites a previous datalog file.</li> <li>Off: Overwrite is disabled. A file number is appended to the log file. For each datalog, the datalog file is Incremented and the previous datalog file is not overwritten.</li> </ul>
Next file num- ber	The number entered in this field is appended to the initial datalog file. Entry in the field is useful when data- logs are previously available in the drive. The number is auto-incremented with each datalog recording when the entry in <i>Next file number</i> is enabled.
Trigger mode	<ul> <li>Select 1 of the following trigger modes.</li> <li>Single trigger mode: After a datalog recording, the datalogger must be rearmed before another trigger is allowed.</li> <li>Auto trigger mode: After a datalog recording, the datalogger automatically rearms and starts to accept triggers.</li> </ul>
Trigger source	Click the <i>Add signal</i> button under the <i>Trigger source</i> heading. A <i>Trigger source</i> field appears. Click on the <i>Trigger source</i> field to select the signal source which is used for triggering the datalogger recording. The trigger source list opens in a new window:

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Field

name

Signals

San

Trigger source

Signals

Signal 1

Signal 3

Signal 5

Control Unit Temperature

Control Unit Temperature

Heat Sink Temperature

**Field description** e30bk189.10 Settings Sample ti ı time (s) 1500 5 Storage Trigger position (s) Temporal device storage (RAM) × Trigger source Trigger type Q Search Equal Motor Ctri. Ready Status Word (1710) File name Speed Reference (1718) user Actual Torque Limit Motoring (1812) Actual Torque Limit Regenerative (1813) Output Current Limit % (2700) Trigger source Main Fan Speed (2931) Trigger source Control Unit Temperature Brake Power (2933) Brake Power Average (2934) Signals Heat Sink Temperature (2950) Signal 1 Control Unit Temperature ETR Motor Thermal Load (2951) Control Unit Temperature (2952) Click the Add signal button under the Signals heading. A Signal field appears. Click on the Signal field to select the signals that are logged. The signal list opens in a new window: Settings e30bk190.10 Window time (s) 1500 5 Storage Trigger position (s) Temporal device storage (RAM) Signals × Trigger type Q Search Equal File name On Reference Flag (6074) user Process Controller Output (6075) Feedback 1 Value (6080) Feedback 2 Value (6085) Trigger source



Adv. Feed Forward Value (6086)

Control Panel Process Control Reference (6094)

Ŵ

Û

Signal 6

Speed Reference After Ramp (6150)

Final Speed Reference (6151)

Feedback Value (6090)

Setpoint Value (6092)



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2. Click Apply settings.

atalogger ic7-136b7309032	955g172 🗙 ଝ REM 🛕 • 9	Start Blocked		(191.10
U TURN ON	✤ FORCE TRIGGER	♦ ARM DEVICE	APPLY SETTINGS	e30b

After the signal selection and the datalogger settings, the datalogger is ready to record the logs. To view a recorded datalog file, click the icon shown in the following figure.

Datalogger • ic7-136b73090329	955g172 🗙 🕅 REM 🔺 • S	Start Blocked		ⓐ ₹	*	***	٠	8	0
() TURN ON	🐓 FORCE TRIGGER	$\diamondsuit$ arm device	APPLY SETTINGS					• Disal	bled
Settings									

Illustration 14: Datalogger View Icon

#### 2.1.6 Backup and Restore

#### Backup

The Backup feature in MyDrive<sup>®</sup> Insight allows to store the parameter settings of the drive into a new or existing project file, RAM, or flash memory of the drive, or to an optional microSD card.

To utilize the microSD card as a storage device, the microSD card must be inserted in the slot on the interface module located behind the control panel, as shown in the image below.



#### Illustration 15: MicroSD Card Slot

#### 1 The microSD card

The following are the types of microSD card supported by the interface module, which must be formatted for the file system FAT32.

- Secure Digital (SD) card
- Secure Digital High Capacity (SDHC)
- Secure Digital Extended Capacity (SDXC)



It is recommended to use SDHC cards as they are delivered as preformatted to FAT32.

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#### 2.1.6.1 Backing up the Drive

#### Procedure

1. To back up the drive, select a drive, go to Setup & Services  $\rightarrow$  Parameters.

The *Parameters Live* screen is shown.

2. Click the icon as shown in the figure.

≡	Live devices 🔻	:	F	Parameters ⊨ ic7-136b7309032955g172 × 🗞 REM 🔺	Start Blocked			1 B Q 🛓	6 ★	♠ □
	All devices		(	<b>Q</b> Search						
	ic7-136b7309032955g172 169.254.79.207:2020	41	~		INDEX	NAME	VALUE	DEFAULT	MIN	M
~*	Device info		~	of official states of the stat	4.1.1	Motor Current	0.00		0.00	9.1 *
			^	a Grid	4.1.2	Motor Current %			0.0	20
	Graphs and reports		^	2 Power Conversion & DC Link	4.1.3	U-phase RMS current			0.00	9.
	🌽 Setup and service		~		4.1.4	V-phase RMS current			0.00	9.
	Parameters		~ ^	3 Filters & Brake Chopper	4.1.5	W-phase RMS current			0.00	9.
			~	a Motor	4.1.6	Motor Voltage			0.0	10
	Cive Live			=	4.1.7	Motor Voltage %	0.00		0.00	20

- Difference of the backup destination. The destinations to back up are:
  - **Project:** The user can back up an existing project or a new project.
  - Device file system: The user can back up to 1 of the available memory devices of the drive.
- 3. Click Next.
- 4. If *Project* was selected, give the backup file a name and description.
  - If *Device file system* was selected, select where to save the backup. The selections are flash, RAM, or an (optional) microSD card. It is possible to specify a name for the backup file as well.
- 5. Click *Backup* to begin backup.
  - Once backup is completed, a notification screen about it appears. If a *Project* backup was created, the backup is shown in the device menu under *Parameters*.

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#### 2.1.6.2 Restoring the Data to the Drive

#### Procedure

- 1. To restore data to the drive, select a drive, go to Setup & Service  $\rightarrow$  Parameters.
- 2. Click the icon as shown in the image below.



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3. Select the source of the data which has to be restored to the drive.

elect source	
roject (New project)	۲
evice filesystem	0
actory settings	0
	-
ocal filesystem	0
ocal filesystem	O NEXT >

- 4. Click Next to select the backup source device and view the available backup files.
- 5. If *Project* is the restore source, select the correct backup to restore. Click *Next*.

× Restore		049.1		
Q Search		e30bk		
Backup   2023-05-16 13:56:40 All Config Settings		0		
Backup   2023-05-16 10:48:44 All Config Settings		0		
← PREVIOUS ••	• • • •	NEXT >		
← PREVIOUS ● ● Ilustration 20: Select the Backup	• • • •	NEXT >		





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×	Restore		~
Select	t restore content		
$\checkmark$	All Config Settings 101		
	All Config Settings Except X 101	0	
< PR	EVIOUS		NEXT >
Illustra	ation 21: Restore Data		

7. The system asks you to confirm the restore action. Click *Restore*.

× Restore		0.10	
	Ŧ	e30bk95	
You selected this backup 136b7309032955g172. By device.	file to be restored to the device in accepting the restore action the	c7- e file is committed to	
- PREVIOUS		RESTORE >	

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