ENGINEERING
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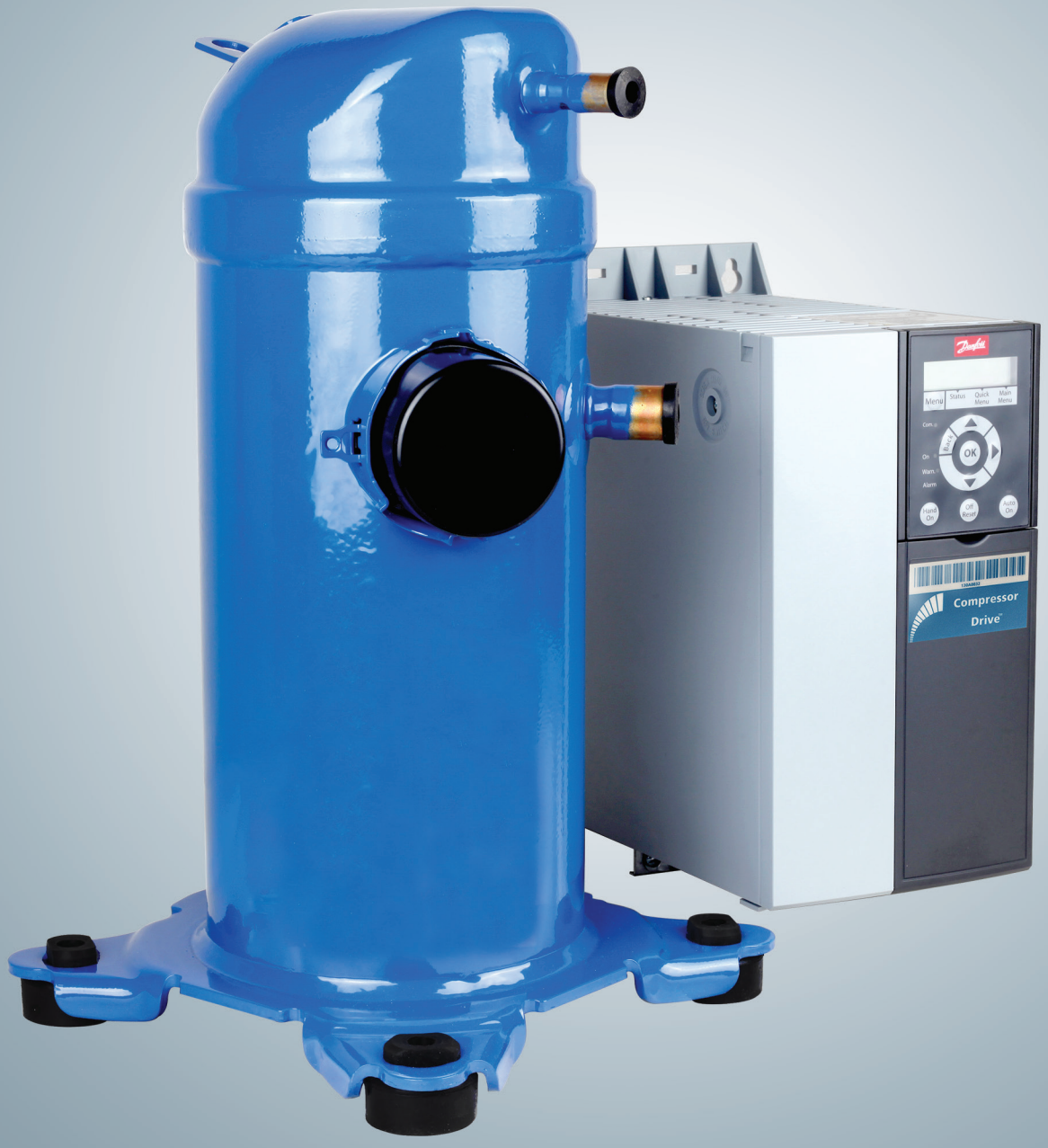
Manual

VLT Compressor Drives
User's Manual



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Manual	VLT Compressor Drives

Introduction

This document is to provide a guidance of different VLT Compressor Drives literatures.

1. VLT Compressor Drives manuals

	Operating Instructions	Quick guide	Design guide	Programming guide
CDS801	MG10V402			
CDS803		MG18M202	MG18N202	MG18P102
CD302	8510233P01-A			
CDS302	MG34M402			
CDS303	MG34M402			

2. Instructions

2a. MCT 10 Set-up Software

Danfoss literature MG10RB02.

This manual provides basic knowledge required to use the MCT 10 Set-up Software with Danfoss Drives VLT® frequency converters.

The MCT 10 Set-up Software enables full system configuration and control. With MCT 10 Set-up Software, it is possible to monitor the entire system more effectively for faster diagnosis and better preventive maintenance.

The MCT 10 Set-up Software can be used as follows:
- Visualizing and handling parameters offline.
- For commissioning frequency converters online.
- For easy replacement of a frequency converter.
- For back-up of parameter settings of frequency converters.
- Graphic demonstration for analysis and troubleshooting.
- Alarm displaying.

2b. MCT 10 Drive Software Upgrader

Danfoss literature MI90X202 (intranet only).

The MCT 10 Drive Software Upgrader is available for MCT 10 Basic and Advanced versions.

The Drive Software Upgrader enables flash the firmware for VLT Compressor Drives.

2c. Modbus RTU Operating Instructions

Danfoss literature MG92B102.

The literature explains how to physically establish and configure communication between the Danfoss VLT Compressor Drives and a controller using the Modbus RTU protocol.

This instruction provides following information:
- RS-485 installation and set-up.
- Modbus RTU message framing structure.
- How to control the Frequency Converter.
- Function code examples.
- FC control profile.
- Parameters and troubleshooting.

2d. Trouble shooting checklist

Danfoss literature FRCC.PC.036.A2.02.

The checklist is to facilitate users, field technicians, engineers and service personnel with Danfoss VLT Compressor Drives to identify faults and perform a first diagnosis on the VLT Compressor Drives.

3. VLT Compressor Drives drawings

3a. CD302 for VTZ

Drive supply voltage	Drive power (kw)	Compressor voltage code	Compressor model	IP20	IP21	IP55
				Drive enclosure	Drive enclosure	Drive enclosure
T2: 200-240/3/50-60	3.7	J	VTZ038	A3	-	B1
	5.5		VTZ054	-	B1	B1
	7.5		VTZ086	-	B1	B1
	11		VTZ121	-	B2	B2
T4: 380-480/3/50-60	4	G	VTZ038	A2	-	A5
	5.5		VTZ054	A3	-	A5
	7.5		VTZ086	A3	-	A5
	11		VTZ121	B3	B1	B1
	15		VTZ171	B3	B1	B1
	18.5		VTZ215	-	B2	B2

3b. CDS302 for VSH

Drive supply voltage	Drive power (kw)	Compressor voltage code	Compressor model	IP20	IP55
				Drive enclosure	Drive enclosure
T2: 200-240/3/50-60	15	J	VSH088	B4	C1
	18.5		VSH117	C3	C1
	22		VSH170	C3	C1
T4: 380-480/3/50-60	15	G	VSH088	B3	B1
	18.5		VSH117	B4	B2
	22		VSH170	B4	B2
T6: 525-600/3/50-60	15	H	VSH088	B3	B1
	18.5		VSH117	B4	B2
	22		VSH170	B4	B2

3c. CDS803 and CDS303 for VZH

Drive model	Drive supply voltage	Drive power (kw)	Compressor voltage code	Compressor model	IP20	IP55
					Drive enclosure	Drive enclosure
CDS803	T2: 200-240/3/50-60	6	J	VZH028	H4	-
		7.5		VZH035	H4	-
		10		VZH044	H5	-
CDS803	T4: 380-480/3/50-60	6	G	VZH028	H3	-
		7.5		VZH035	H3	-
		10		VZH044	H4	-
CDS303	T6: 525-600/3/50-60	7.5	H	VZH028	A3	-
		7.5		VZH035	A3	-
		11		VZH044	B3	-
CDS303	T2: 200-240/3/50-60	11	J	VZH052	B4	B2
		11		VZH065	B4	B2
CDS303	T4: 380-480/3/50-60	11	G	VZH052	B3	B1
		15		VZH065	B3	B1
CDS303	T6: 525-600/3/50-60	15	H	VZH052	B3	B1
		22		VZH065	B4	B2
CDS303	T2: 200-240/3/50-60	15	J	VZH088	B4	C1
		18.5		VZH117	C3	C1
		22		VZH170	C3	C1
CDS303	T4: 380-480/3/50-60	15	G	VZH088	B3	B1
		18.5		VZH117	B4	B2
		22		VZH170	B4	B2
CDS303	T6: 525-600/3/50-60	18	H	VZH088	B4	-
		30		VZH117	B4	-
		30		VZH170	B4	-

4. Software update and firmware (intranet only)

VLT Compressor Drives software update file and firmware can be downloaded (filter the column 'Product' by 'Brand labels'):
https://danfoss.sharepoint.com/sites/DDS-Products/Software%20updates/Forms/AllItems.aspx

Drive model	CDS801	CDS803	CDS302	CDS302, APC	CDS302	CDS303	CDS303, VZH67F
Current SW version (Sept 17, 2018)	1.14	2.00	3.02	1.08	3.02	3.09	3.18

5. Danfoss literature database

Danfoss literature database can be found in Danfoss.com global site, at 'Service and Support' section.

Compressor and VLT Compressor Drives literatures are belong to Business Unit 'Cooling' and 'Drives'.

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Danfoss Cooling

is a worldwide manufacturer of compressors and condensing units for refrigeration and HVAC applications. With a wide range of high quality and innovative products we help your company to find the best possible energy efficient solution that respects the environment and reduces total life cycle costs.

We have 40 years of experience within the development of hermetic compressors which has brought us amongst the global leaders in our business, and positioned us as distinct variable speed technology specialists. Today we operate from engineering and manufacturing facilities spanning across three continents.

Danfoss Turbocor Compressors

Danfoss Inverter Scrolls

Danfoss Scrolls

Danfoss Optyma™ Condensing Units

Danfoss Maneurop Reciprocating Compressors

Danfoss Light Commercial Refrigeration Compressors

Our products can be found in a variety of applications such as rooftops, chillers, residential air conditioners, heatpumps, coldrooms, supermarkets, milk tank cooling and industrial cooling processes.

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