Danfoss CDS801 VLT Compressor Drives User Manual

Contents

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Introduction

This document Introduction t is to provide guidance of different VLT Compressor Drives literature.

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			

Instructions

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 backup of the parameter settings of frequency converters.
- Graphic demonstration for analysis and troubleshooting.
- Alarm displaying.

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.

Modbus RTU Operating Instructions

Troubleshooting 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.

VLT Compressor Drives drawings

CD302 for VTZ

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

CDS302 for VSH

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

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	-

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/DDSProducts/Software%20updates/Forms/AllItems.aspx**

Drive model	CDS801	CDS803	CDS302	CDS302, APC	CDS302	CDS303	CDS303, V ZH67F
Current SW version	1. 14	2.00	3.02	1.08	3.02	3.09	3.18

Danfoss literature database

- Danfoss literature database can be found on the **Danfoss.com** global site, at the ‘Service and Support’ section.
- Compressor and VLT Compressor Drives literature belongs to the Business Unit ‘Cooling’ and ‘Drives’.

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 three continents.

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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Specifications

VLT Compressor Drives:

- **Models:** CDS801, CDS803, CD302, CDS302, CDS303
- **Operating Instructions**: MG10V402, 8510233P01-A, MG34M402, MG18M202

VLT Compressor Drives Drawings

CD302 for VTZ

- **Drive Supply Voltage**: T2 (200-240/3/50-60), T4 (380-480/3/50-60)
- **Drive Power (kw):** 3.7, 5.5, 7.5, 11, 15, 18.5

- **Compressor Voltage Code**: T2: 4, 5.5, 7.5; T4: 11, 15, 18.5
- **Compressor Model**: VTZ038, VTZ054, VTZ086, VTZ121, VTZ171, VTZ215
- **Drive Enclosure**: IP20 (A3, A2), IP21 (B1, B2), IP55 (B1, B2, A5)

Frequently Asked Questions

Q: How do I update the software and firmware for the VLT Compressor Drives?
A: The software update and firmware instructions are available on the intranet. Please refer to the provided literature for detailed guidance on updating the software and firmware.

Documents / Resources

	Danfoss CDS801 VLT Compressor Drives [pdf] User Manual CDS801 VLT Compressor Drives, CDS801, VLT Compressor Drives, Compressor Drives, Drives

References

- Engineering Tomorrow | Danfoss
- El Derecho
- Sign in to your account
- User Manual