

Danfoss VACON 100 X Motor Mountable AC Drives User Guide

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Danfoss VACON 100 X Motor Mountable AC Drives



Product Information

Specifications

• Minimum distance around the inverter: All types – 80mm

• Motor terminals: U/T1, V/T2, W/T3

• DC bus terminals: DC+, DC-

• Brake resistance terminals: R+, R-

• Earth conductor

Product Usage Instructions

Changing the Control Place

To change the control place, follow these steps:

- 1. Modify the source of command
- 2. Select 'Local/Remote' or 'Local' or 'Remote'
- 3. If 'Local/Remote' is selected, press 'OK'
- 4. If 'Local' or 'Remote' is selected, press 'OK'
- 5. If 'Local/Distance' is selected, press 'OK'

The Graphical Display (A)

- · The location field
- · An activated group or item
- The number of items in the group in question
- · The first status field: STOP/RUN
- · The rotation direction
- The second status field: READY/NOT READY/FAULT
- · The alarm field
- The control place

The Text Display (B):

- · The indicators of status
- · The indicators of alarm and fault
- The name of the group or item
- The current location in the menu
- The indicators of the rotation direction
- · The indicators of the control place

The Buttons of the Keypad (C)

- BACK/RESET button
- · OK button
- Arrow button UP
- FUNCT button
- Arrow button RIGHT
- START button
- Arrow button DOWN
- 22 STOP button
- 23 Arrow button LEFT

Frequently Asked Questions (FAQ):

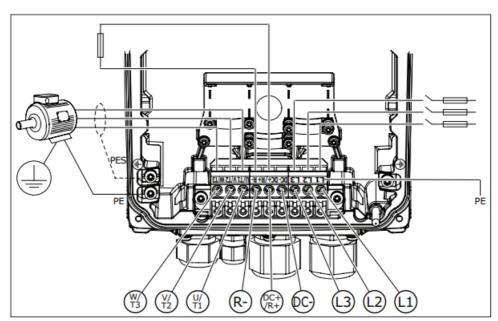
- Q: What is the minimum distance required around the inverter?
 - A: The minimum distance required around the inverter is 80mm for all types.
- · Q: What are the motor terminals?
 - A: The motor terminals are U/T1, V/T2, and W/T3.
- · Q: What are the DC bus terminals?
 - A: The DC bus terminals are DC+ and DC-.
- Q: What are the brake resistance terminals used for?
 - A: The brake resistance terminals are used for connecting a brake resistor.
- Q: What is the purpose of the earth conductor?
 - A: The earth conductor is used for grounding.

cal-documentation/

CABLE INSTALLATION

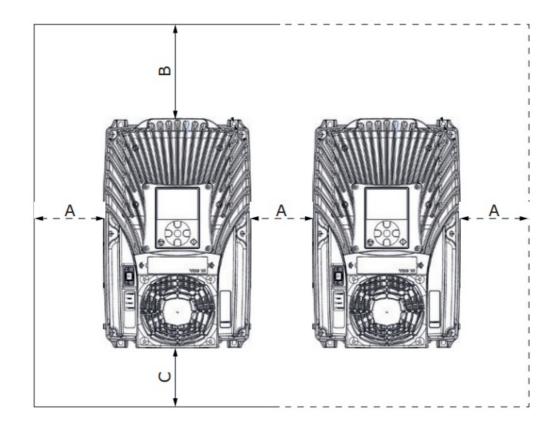
- L1 Mains
- U/T1 Motor
- DC+ DC bus terminals
- DC- Borne de bus DC
- R+ Brake resistor terminals
- R-





Funnala MANAE

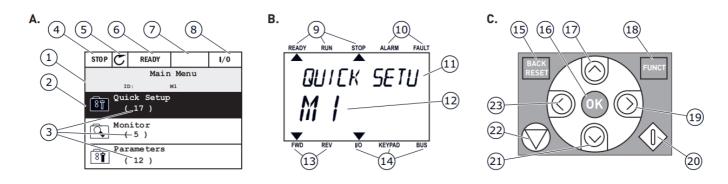
COOLING



The minimum clearance (mm) around the drive

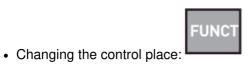
FRAME	A	В	С
All types	80	160	60

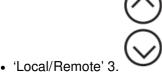
CONTROL PANEL AND KEYPAD



FUNCT (18)

Use it to change the rotation direction of the motor, access the control page, and change the control place.





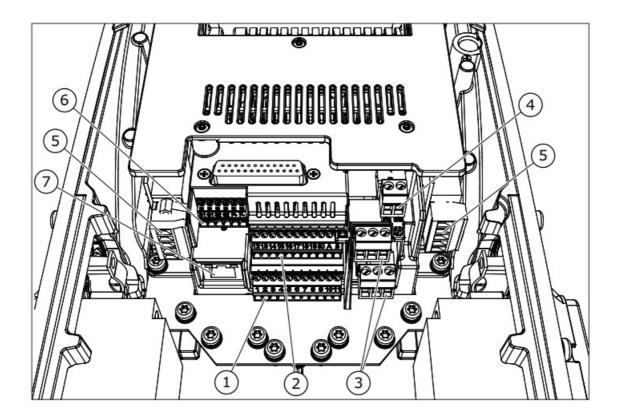
• . 'Local' or 'Remote' 5.

Α	The graphical display				
1	The location field				
2	An activated group or item				
3	The number of items in the group in question				
4	The first status field: STOP/RUN				
5	The rotation direction				
6	The second status field: READY/NOT READY/FAULT				
7	The alarm field				
8	The control place				
	The text display				
9	The indicators of status				
-	The indicators of alarm and fault				
11	The name of the group or item				
12	The current location in the menu				
13	The indicators of the rotation direction				
14	The indicators of the control place				
С	The buttons of the keypad				
	The BACK/RESET button				
	The OK button				
17	The arrow button UP				
_	The FUNCT button				
19	The arrow button RIGHT				
20	The START button				
21	The arrow button DOWN				
	The STOP button				
23	The arrow button LEFT				

CONTROL TERMINALS

		Standard I/O					
Reference		Terminal Signal					
potentiometer	- 1	+10 \		Reference output			
110 kΩ	2	_		Analogue input, voltage or current			
L	· – – - 3			Analogue input common			
Remote	4			Analogue input, voltage or current			
reference		- 5 Al2- - 6 24 Vout		Analogue input common			
				24V aux. voltage			
420mA/010V	7			I/O ground			
⊢ ∕, −	- 8	DI1		Digital input 1			
└ /, ·		DI2		Digital input 2			
⊢ −	10	DI3		Digital input 3			
1	11	CM		Common for DI1-DI6			
1	12	12 24 Vout		24V aux. voltage			
1 /	r — - 13	GND		I/O ground			
⊢ // −	-ı <u>1</u>			Digital input 4			
└ /-	-ı <u>15</u>			Digital input 5			
	-ı <u>18</u>			Digital input 6			
	1 17			Common for DI1-DI6			
(mA)	18			Analogue output, voltage or current			
	¹ → − − 19	_		Analogue output common			
!	30 A			24V auxiliary input voltage			
				Serial bus, negative			
		RS48	55 	Serial bus, positive			
		R01/1 —		Relay output 1			
		R01/2					
└(×) ►	23 R01	R01/3 —					
24 25		R02/1		Relay output 2			
		R02/2					
		R02/3 —					
		TI1+		Thermistor input			
	29 TI1-						
	STO input						
H		Isolated digital input 1					
		(inter-changeable polarity); +24V ±20% 1015mA					
		Isolated digital input 2					
	G2 (inte						
	ST0	feedb	ack				
	Isolated feedback						
		(CAUTION! Polarity to be respected); +24V ±20%					
	lcol:	Isolated feedback					
		(CAUTION! Polarity to be respected); GND					
	ICAL	(CAO HOM: Folarity to be respected); GND					

- 1. Control terminals 1-30
- 2. Relay terminals Bornes relais
- 3. Thermistor input
- 4. Option boards
- 5. STO Terminals
- 6. Ethernet Terminal Borne Ethernet



Documents / Resources



<u>Danfoss VACON 100 X Motor Mountable AC Drives</u> [pdf] User Guide AN36117953463301-000101, VACON 100 X Motor Mountable AC Drives, VACON 100 X, Motor Mountable AC Drives, Mountable AC Drives, AC Drives, Drives

References

- O <u>Drives knowledge center | Danfoss</u>
- User Manual

Manuals+, Privacy Policy