



10001046

1 Introduction

This operating guide provides necessary information for qualified personnel to install and commission the VLT drive. Read and follow the instructions to use the drive safely and performance.

Warning: Do not change or implement components containing electrical components together with domestic users. Contact your distributor for assistance with local and country regulations.

2 Safety

Pay particular attention to the safety instructions and general warning to avoid the risk of death, serious injury, and equipment or property damage.

WARNING

Electrical shock

Do not touch high voltage when connected to AC supply lines.

Electromagnetic effect

The drive may emit low electromagnetic (EM) levels in facilities if any they when the drive is connected to the AC supply.

Overvoltage fault

The drive contains an anti-surge device that causes mechanical stress when the drive is not protected high voltage can be present even when the warning indicator lights are off.

Stop the motor and disconnect AC supply, perform surge protection system.

Monitor the operation to discharge fully and measure it before performing any service or repair work.

For emergency warning look at 4.10.10.10.

Grounding (earthing)

Ensure correct earthing of the drive cabinet frame. Make sure that the connection earthing of the ground conductor complies with the local safety regulations for high voltage system equipment.

3 Installation

3.1 Mounting dimensions

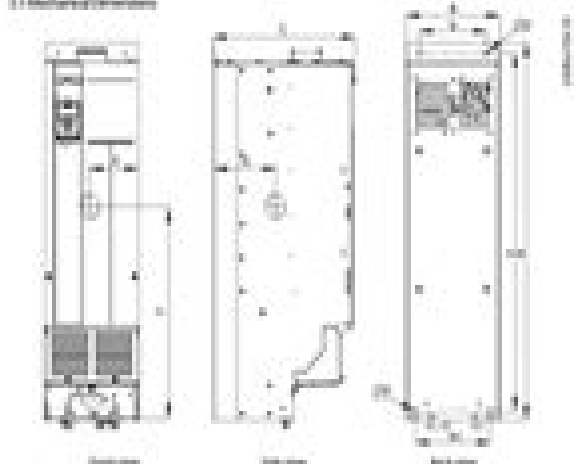


Illustration 3.1 Mounting dimensions, Enclosure Sizes 00-00

Table 3.1 Power ratings, dimensions, and weight for Enclosure Sizes 00-00

Enclosure size (mm)	Power (kW) (hp)	Height (mm) (in)		Width (mm) (in)			
		2	27	2	2	2	2
00	110-130 (150-180)	500 (20.0)	500 (20.0)	500 (20.0)	500 (20.0)	160 (6.3)	160 (6.3)
00	160-170 (220-240)	500 (20.0)	500 (20.0)	500 (20.0)	500 (20.0)	200 (7.9)	200 (7.9)
00	200-220 (270-300)	500 (20.0)	500 (20.0)	500 (20.0)	500 (20.0)	240 (9.4)	240 (9.4)
Enclosure size (mm)	Height (mm) (in)	Mounting hole (mm) (in)		Center of gravity (mm) (in)		Maximum weight (kg) (lb)	
		2	27	2	2	2	2
00	500 (20.0)	11 (0.4)	11 (0.4)	160 (6.3)	160 (6.3)	30 (6.6)	30 (6.6)
00	500 (20.0)	11 (0.4)	11 (0.4)	160 (6.3)	160 (6.3)	30 (6.6)	30 (6.6)

Note: For mounting dimensions

3.2 Removing the front cover

Procedure

Step 1 Connect and remove the 2 screws on the front cover.

Step 2 Disconnect the front cover from the back.

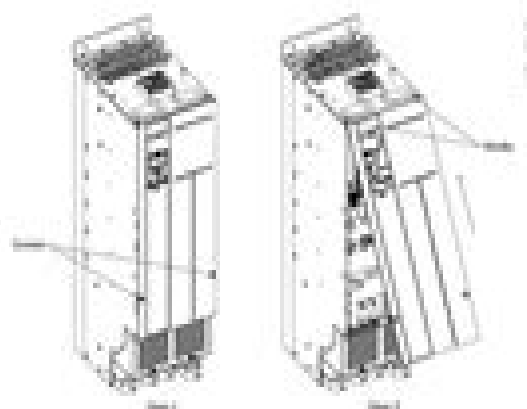


Illustration 3.2 Removing the front cover

3.3 Connecting to Motor, Motor Control Terminals, and Safety

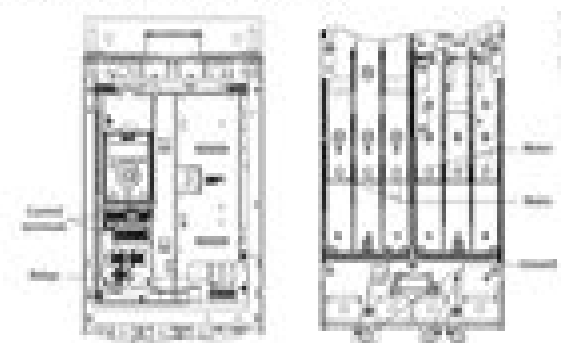


Illustration 3.3 Connecting to Motor, Motor Control Terminals, and Safety

3.4 Control Terminals

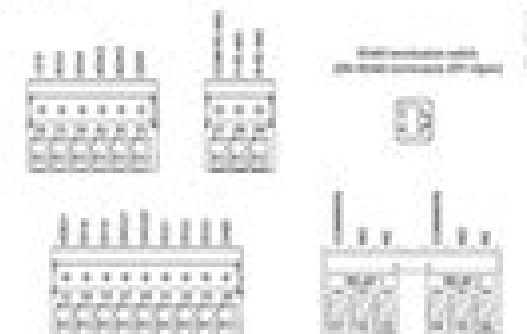


Illustration 3.4 Control Terminals

4 Specifications

Table 4.1 Electrical Data for Normal Overload Motor Supply (AC 50-60 Hz)

Item	00-00	00-00	00-00	00-00	00-00	00-00
Enclosure size	00	00	00	00	00	00
Normal overload motor current rating (A)	110	110	110	110	110	110
Rated motor output at 50 Hz (kW)	110	110	110	110	110	110
Rated motor output at 60 Hz (kW)	110	110	110	110	110	110
Input current (A phase)						
Continuous at 50 Hz (A)	210	210	210	210	210	210
Intermittent 50% overload at 50 Hz (A)	210	210	210	210	210	210
Continuous at 60 Hz (A)	110	110	110	110	110	110
Intermittent 50% overload at 60 Hz (A)	110	110	110	110	110	110
Continuous 50% at 50 Hz (A)	110	110	110	110	110	110
Continuous 50% at 60 Hz (A)	110	110	110	110	110	110
Maximum input current						
Continuous at 50 Hz (A)	210	210	210	210	210	210
Continuous at 60 Hz (A)	110	110	110	110	110	110
Maximum number and size of cables per phase						
Motor and motor lead (mm²)	400 (2000)		400 (2000)		400 (2000)	
Maximum external cable from 00	210	210	210	210	210	210
External power from a 400 V (A)	210	210	210	210	210	210
External power from a 600 V (A)	210	210	210	210	210	210
Warning for	No					
Signal frequency (Hz)	50-60					
Max. and min. temperature (°C) (°F)	-10 (14)					
Rated and max. temperature (°C) (°F)	40 (104)		40 (104)		40 (104)	

Table 4.2 Electrical Data for High Overload Motor Supply (AC 50-60 Hz)

Item	0000	00-00	00-00	00-00	00-00	00-00
Enclosure size	00	00	00	00	00	00
High overload motor current rating (A)	110	110	110	110	110	110
Rated motor output at 50 Hz (kW)	110	110	110	110	110	110
Rated motor output at 60 Hz (kW)	110	110	110	110	110	110
Input current (A phase)						
Continuous at 50 Hz (A)	210	210	210	210	210	210
Intermittent 50% overload at 50 Hz (A)	210	210	210	210	210	210
Continuous at 60 Hz (A)	110	110	110	110	110	110
Intermittent 50% overload at 60 Hz (A)	110	110	110	110	110	110
Continuous 50% at 50 Hz (A)	110	110	110	110	110	110
Continuous 50% at 60 Hz (A)	110	110	110	110	110	110
Maximum input current						
Continuous at 50 Hz (A)	210	210	210	210	210	210
Continuous at 60 Hz (A)	110	110	110	110	110	110
Maximum number and size of cables per phase						
Motor and motor lead (mm²)	400 (2000)		400 (2000)		400 (2000)	
Maximum external cable from 00	210	210	210	210	210	210
External power from a 400 V (A)	210	210	210	210	210	210
External power from a 600 V (A)	210	210	210	210	210	210
Warning for	No					
Signal frequency (Hz)	50-60					
Max. and min. temperature (°C) (°F)	-10 (14)					
Rated and max. temperature (°C) (°F)	40 (104)		40 (104)		40 (104)	

5 Ambient Conditions

Altitude (m) (ft)	4000 (13120)
Relative humidity	95%
Relative humidity	95% (95% RH) for 1 h. Max. 40 min. continuous rating operation.
Relative humidity (at 50% at 40°C) (A)	100%
Relative power (at 50% at 40°C) (A)	100%
For ambient conditions (at 50% at 40°C) (A)	100%

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Danfoss Ts15 Operating Manual

Raymond Ward



Danfoss Ts15 Operating Manual:

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