

Parameter settings for Danfoss VLT[®] 6000 HVAC

0/4–20 mA signal from controller



The parameters used to control the frequency converters may be easily programmed by the user. The **[QUICK MENU]** button provides a list with a some of the most common parameters. The **[EXTEND. MENU]** button allows the user to program all parameters.

Johnson Pump Horticulture provides you with this Quick Start guide for optimizing your pump performance.

This guide assumes you are using the Display in *Display mode II*.

Parameter settings

Group 0 - Operation & Display

| Param. no. | Description | Window text | Setting | Serial port value |
|------------|---------------------------|-----------------|----------------------|-------------------|
| 001 | Language | LANGUAGE | ENGLISH | 0 |
| 007 | Large display readout | LARGE READOUT | FREQUENCY [Hz] | 3 |
| 008 | Small display readout 1.1 | SMALL READOUT 1 | POWER [KW] / [HP] | 6 / 7 |
| 009 | Small display readout 1.2 | SMALL READOUT 2 | MOTOR CURRENT [A] | 5 |
| 010 | Small display readout 1.3 | SMALL READOUT 3 | ANALOG INPUT 60 [mA] | 23 |

Group 1 - Load & Motor

| Param. no. | Description | Window text | Setting | Serial port value |
|------------|---------------|--------------|-----------|-------------------|
| 100 | Configuration | CONFIG. MODE | OPEN LOOP | 0 |

Group 2 - References & Limits

| Param. no. | Description | Window text | Setting | Serial port value |
|------------|--|------------------|------------|-------------------|
| 201 | Output frequency low limit, f_{MIN} | MIN. FREQUENCY | 0.000 Hz | 0 |
| 202 | Output frequency high limit, f_{MAX} | MAX. FREQUENCY | 50.000 Hz | 500 |
| 204 | Minimum reference, Ref_{MIN} | MIN. REFERENCE | 0.000 HZ | 0 |
| 205 | Maximum reference, Ref_{MAX} | MAX. REFERENCE | 50.000 Hz | 50000 |
| 206 | Ramp-up time 1 | RAMP UP TIME 1 | 15.00 sec. | 15 |
| 207 | Ramp-down time | RAMP DOWN TIME 1 | 15.00 sec. | 15 |

Group 3 - Inputs & Outputs

| Param. no. | Description | Window text | Setting | Serial port value |
|------------|-------------------------------------|-------------------|---------------|-------------------|
| 308 | Terminal 53, analogue input voltage | AI [V] 53 FUNCT. | NO OPERATION | 0 |
| 314 | Terminal 60, analogue input current | AI [mA] 60 FUNCT. | REFERENCE | 1 |
| 315 | Terminal 60, min. scaling | AI 60 SCALE LOW | 0.0 or 4.0 mA | 0 or 40000 |
| 316 | Terminal 60, max. scaling | AI 60 SCALE HIGH | 20 mA | 200000 |

All other parameter settings --> factory default settings

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Troubleshooting

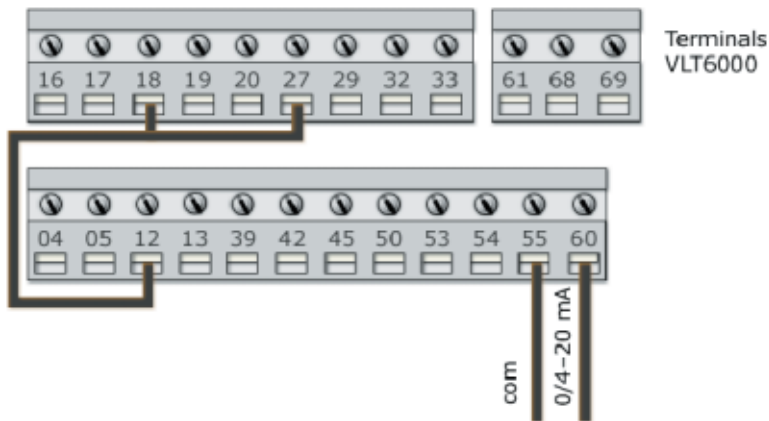
Not working?

Parameter 620 [OPERATION MODE]/[INITIALIZE] can be used to reset all parameters to the default factory settings.

Procedure for initialisation:

1. Select initialisation (parameter 620)
2. Press **[OK]**
3. Disconnect mains power supply and wait for the light in the display to go out
4. Reconnect to mains
5. Initialisation of all parameters will be carried out
6. Reprogram the above parameters

Wiring diagram



The connection between terminal 12 and 18 can be replaced by a contact from the controller.

Press **[DISPLAY MODE]**.

Three values are shown at the top of the display; parameter settings 008, 009 and 010.

The value on the far right is the voltage connected to terminal 60.